



# **CITY-MULTI®**

## **575 V-SERIES UNITS**

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZKMU-B(-BS)

#### ► Specifications



| Outdoor Model                                       |                              |                     | PUHY-P72ZKMU-B (-BS)                                                                            |        | PUHY-P96ZKMU-B (-BS)                                                                            |        |
|-----------------------------------------------------|------------------------------|---------------------|-------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------|--------|
| Indoor Model                                        |                              |                     | Non-Ducted                                                                                      | Ducted | Non-Ducted                                                                                      | Ducted |
| Power source                                        |                              |                     | 3-phase 3-wire 575 V ±10% 60 Hz                                                                 |        | 3-phase 3-wire 575 V ±10% 60 Hz                                                                 |        |
| Cooling capacity<br>(Nominal)                       | *1                           | BTU/h               | 72,000                                                                                          |        | 96,000                                                                                          |        |
|                                                     |                              | kW                  | 21.1                                                                                            |        | 28.1                                                                                            |        |
|                                                     | (575)                        | Power input         | 4.77                                                                                            |        | 6.74                                                                                            |        |
|                                                     |                              | Current input       | 5.3                                                                                             |        | 7.5                                                                                             |        |
|                                                     | (Rated)                      | BTU/h               | 69,000                                                                                          |        | 92,000                                                                                          |        |
|                                                     |                              | kW                  | 20.2                                                                                            |        | 27.0                                                                                            |        |
| (575)                                               | Current input                | Power input         | 5.47                                                                                            | 5.39   | 7.49                                                                                            | 7.44   |
|                                                     |                              | Current input       | 6.1                                                                                             | 6.0    | 8.3                                                                                             | 8.3    |
| Temp. range of cooling                              | Indoor                       | W.B.                | 59~75°F (15~24°C)                                                                               |        | 59~75°F (15~24°C)                                                                               |        |
|                                                     | Outdoor                      | D.B.                | 23~115°F (-5~46°C)                                                                              |        | 23~115°F (-5~46°C)                                                                              |        |
| Heating capacity<br>(Nominal)                       | *2                           | BTU/h               | 80,000                                                                                          |        | 108,000                                                                                         |        |
|                                                     |                              | kW                  | 23.4                                                                                            |        | 31.7                                                                                            |        |
|                                                     | (575)                        | Power input         | 5.63                                                                                            |        | 7.78                                                                                            |        |
|                                                     |                              | Current input       | 6.2                                                                                             |        | 8.6                                                                                             |        |
|                                                     | (Rated)                      | BTU/h               | 76,000                                                                                          |        | 103,000                                                                                         |        |
|                                                     |                              | kW                  | 22.3                                                                                            |        | 30.2                                                                                            |        |
| (575)                                               | Current input                | Power input         | 5.54                                                                                            | 5.47   | 7.79                                                                                            | 7.41   |
|                                                     |                              | Current input       | 6.1                                                                                             | 6.1    | 8.6                                                                                             | 8.2    |
| Temp. range of heating                              | Indoor                       | D.B.                | 59~81°F (15~27°C)                                                                               |        | 59~81°F (15~27°C)                                                                               |        |
|                                                     | Outdoor                      | W.B.                | -4~60°F (-20~15.5°C)                                                                            |        | -4~60°F (-20~15.5°C)                                                                            |        |
| Indoor unit connectable                             | Total capacity               |                     | 50~130% of outdoor unit capacity                                                                |        | 50~130% of outdoor unit capacity                                                                |        |
|                                                     | Model/Quantity               |                     | P04~P72/1~18                                                                                    |        | P04~P96/1~24                                                                                    |        |
| Sound pressure level<br>(measured in anechoic room) |                              | dB <A>              | 79.0                                                                                            |        | 81.5                                                                                            |        |
| Refrigerant piping diameter                         | Liquid pipe                  | in. (mm)            | 3/8 (9.52) Braze                                                                                |        | 3/8 (9.52) Braze (1/2 (12.7) Braze, the farthest pipe length ≥ 90 m)                            |        |
|                                                     | Gas pipe                     | in. (mm)            | 7/8 (22.2) Braze                                                                                |        | 7/8 (22.2) Braze                                                                                |        |
| Minimum Circuit Ampacity                            |                              | A                   | 11                                                                                              |        | 15                                                                                              |        |
| Maximum Overcurrent Protection                      |                              | A                   | 15                                                                                              |        | 25                                                                                              |        |
| FAN                                                 | Type x Quantity              |                     | Propeller fan x 1                                                                               |        | Propeller fan x 1                                                                               |        |
|                                                     | Airflow rate                 | cfm                 | 6,200                                                                                           |        | 6,700                                                                                           |        |
|                                                     |                              | m <sup>3</sup> /min | 175                                                                                             |        | 190                                                                                             |        |
|                                                     |                              | L/s                 | 2,920                                                                                           |        | 3,170                                                                                           |        |
|                                                     | Control, Driving mechanism   |                     | Inverter-control, Brushless DC motor                                                            |        | Inverter-control, Brushless DC motor                                                            |        |
|                                                     | Motor output                 | kW                  | 0.92                                                                                            |        | 0.92                                                                                            |        |
| Compressor                                          | *3 External static press.    |                     | 0 in.WG (0 Pa)                                                                                  |        | 0 in.WG (0 Pa)                                                                                  |        |
|                                                     | Type x Quantity              |                     | Inverter scroll hermetic compressor x 1                                                         |        | Inverter scroll hermetic compressor x 1                                                         |        |
|                                                     | Starting method              |                     | Inverter                                                                                        |        | Inverter                                                                                        |        |
|                                                     | Motor output                 | kW                  | 5.6 x 1                                                                                         |        | 6.9 x 1                                                                                         |        |
|                                                     | Case heater                  | kW                  | 0.035                                                                                           |        | 0.035                                                                                           |        |
|                                                     | External finish              |                     | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |        | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |        |
| External dimension H x W x D                        | in.<br>mm                    |                     | 64-31/32 x 36-1/4 x 29-5/32                                                                     |        | 64-31/32 x 48-1/16 x 29-5/32                                                                    |        |
|                                                     |                              |                     | 1,650 x 920 x 740                                                                               |        | 1,650 x 1,220 x 740                                                                             |        |
| Protection devices                                  | High pressure protection     |                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                |        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                |        |
|                                                     | Inverter circuit (COMP./FAN) |                     | Over-heat protection, Over-current protection                                                   |        | Over-heat protection, Over-current protection                                                   |        |
|                                                     | Fan motor                    |                     | -                                                                                               |        | -                                                                                               |        |
| Refrigerant                                         | Type x original charge       |                     | R410A x 19 lbs + 13 oz. (9.0 kg)                                                                |        | R410A x 25 lbs + 6 oz. (11.5 kg)                                                                |        |
| Net weight                                          |                              | lbs (kg)            | 490 (222)                                                                                       |        | 563 (255)                                                                                       |        |
| Heat exchanger                                      |                              |                     | Salt-resistant cross fin & copper tube                                                          |        | Salt-resistant cross fin & copper tube                                                          |        |
| Optional parts                                      |                              |                     | joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010C-G                                         |        | joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010C-G                                         |        |

#### Notes:

\*1, \*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZKMU-B(-BS)



## ► Specifications

| Outdoor Model                                       |                              |                                  | PUHY-P120ZKMU-B (-BS)                                                                           |         |        |  | PUHY-P144ZKMU-B (-BS)                                                                           |                                  |        |  |  |
|-----------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------|---------|--------|--|-------------------------------------------------------------------------------------------------|----------------------------------|--------|--|--|
| Indoor Model                                        |                              |                                  | Non-Ducted                                                                                      |         | Ducted |  | Non-Ducted                                                                                      |                                  | Ducted |  |  |
| Power source                                        |                              |                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                 |         |        |  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                 |                                  |        |  |  |
| Cooling capacity<br>(Nominal)                       | *1                           | BTU/h                            | 120,000                                                                                         |         |        |  | 144,000                                                                                         |                                  |        |  |  |
|                                                     |                              | *1 kW                            | 35.2                                                                                            |         |        |  | 42.2                                                                                            |                                  |        |  |  |
| (575)                                               | Power input                  | kW                               | 8.48                                                                                            |         |        |  | 11.02                                                                                           |                                  |        |  |  |
|                                                     | Current input                | A                                | 9.4                                                                                             |         |        |  | 12.2                                                                                            |                                  |        |  |  |
| (Rated)                                             |                              | BTU/h                            | 115,000                                                                                         |         |        |  | 138,000                                                                                         |                                  |        |  |  |
|                                                     |                              | kW                               | 33.7                                                                                            |         |        |  | 40.4                                                                                            |                                  |        |  |  |
| (575)                                               | Power input                  | kW                               | 10.12                                                                                           |         | 9.72   |  | 13.76                                                                                           |                                  | 13.49  |  |  |
|                                                     | Current input                | A                                | 11.2                                                                                            |         | 10.8   |  | 15.3                                                                                            |                                  | 15.0   |  |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                             | 59~75°F (15~24°C)                                                                               |         |        |  | 59~75°F (15~24°C)                                                                               |                                  |        |  |  |
|                                                     | Outdoor                      | D.B.                             | 23~115°F (-5~46°C)                                                                              |         |        |  | 23~115°F (-5~46°C)                                                                              |                                  |        |  |  |
| Heating capacity<br>(Nominal)                       | *2                           | BTU/h                            | 135,000                                                                                         |         |        |  | 160,000                                                                                         |                                  |        |  |  |
|                                                     |                              | *2 kW                            | 39.6                                                                                            |         |        |  | 46.9                                                                                            |                                  |        |  |  |
| (575)                                               | Power input                  | kW                               | 10.09                                                                                           |         |        |  | 12.65                                                                                           |                                  |        |  |  |
|                                                     | Current input                | A                                | 11.2                                                                                            |         |        |  | 14.1                                                                                            |                                  |        |  |  |
| (Rated)                                             |                              | BTU/h                            | 129,000                                                                                         |         |        |  | 152,000                                                                                         |                                  |        |  |  |
|                                                     |                              | kW                               | 37.8                                                                                            |         |        |  | 44.5                                                                                            |                                  |        |  |  |
| (575)                                               | Power input                  | kW                               | 9.44                                                                                            |         | 9.56   |  | 11.58                                                                                           |                                  | 11.79  |  |  |
|                                                     | Current input                | A                                | 10.5                                                                                            |         | 10.6   |  | 12.9                                                                                            |                                  | 13.1   |  |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.                             | 59~81°F (15~27°C)                                                                               |         |        |  | 59~81°F (15~27°C)                                                                               |                                  |        |  |  |
|                                                     | Outdoor                      | W.B.                             | -4~60°F (-20~15.5°C)                                                                            |         |        |  | -4~60°F (-20~15.5°C)                                                                            |                                  |        |  |  |
| Indoor unit<br>connectable                          | Total capacity               | 50~130% of outdoor unit capacity |                                                                                                 |         |        |  |                                                                                                 | 50~130% of outdoor unit capacity |        |  |  |
|                                                     | Model/Quantity               | P04~P96/1~30                     |                                                                                                 |         |        |  |                                                                                                 | P04~P96/1~36                     |        |  |  |
| Sound pressure level<br>(measured in anechoic room) |                              | dB <A>                           | 79.5                                                                                            |         |        |  | 81.5                                                                                            |                                  |        |  |  |
| Refrigerant                                         | Liquid pipe                  | in. (mm)                         | 3/8 (9.52) Braze (1/2 (12.7) Braze, the farthest pipe length ≥ 40 m)                            |         |        |  | 1/2 (12.7) Braze                                                                                |                                  |        |  |  |
| piping diameter                                     | Gas pipe                     | in. (mm)                         | 1-1/8 (28.58) Braze                                                                             |         |        |  | 1-1/8 (28.58) Braze                                                                             |                                  |        |  |  |
| Minimum Circuit Ampacity                            |                              | A                                | 19                                                                                              |         |        |  | 21                                                                                              |                                  |        |  |  |
| Maximum Overcurrent Protection                      |                              | A                                | 30                                                                                              |         |        |  | 30                                                                                              |                                  |        |  |  |
| FAN                                                 | Type x Quantity              |                                  | Propeller fan x 2                                                                               |         |        |  | Propeller fan x 2                                                                               |                                  |        |  |  |
|                                                     | Airflow rate                 | cfm                              | 11,300                                                                                          |         |        |  | 11,300                                                                                          |                                  |        |  |  |
|                                                     |                              | m³/min                           | 320                                                                                             |         |        |  | 320                                                                                             |                                  |        |  |  |
|                                                     |                              | L/s                              | 5,330                                                                                           |         |        |  | 5,330                                                                                           |                                  |        |  |  |
|                                                     | Control, Driving mechanism   |                                  | Inverter-control, Brushless DC motor                                                            |         |        |  | Inverter-control, Brushless DC motor                                                            |                                  |        |  |  |
|                                                     | *3                           | Motor output                     | kW                                                                                              | 0.92 ×2 |        |  |                                                                                                 | 0.92 ×2                          |        |  |  |
| Compressor                                          | External static press.       |                                  | 0 in.WG (0 Pa)                                                                                  |         |        |  | 0 in.WG (0 Pa)                                                                                  |                                  |        |  |  |
|                                                     | Type x Quantity              |                                  | Inverter scroll hermetic compressor x 1                                                         |         |        |  | Inverter scroll hermetic compressor x 1                                                         |                                  |        |  |  |
|                                                     | Starting method              |                                  | Inverter                                                                                        |         |        |  | Inverter                                                                                        |                                  |        |  |  |
|                                                     | Motor output                 | kW                               | 8.2 x 1                                                                                         |         |        |  | 10.8 x 1                                                                                        |                                  |        |  |  |
|                                                     | Case heater                  | kW                               | 0.045                                                                                           |         |        |  | 0.045                                                                                           |                                  |        |  |  |
| External finish                                     |                              |                                  | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |         |        |  | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar> |                                  |        |  |  |
| External dimension H x W x D                        |                              | in.                              | 64-31/32 x 68-29/32 x 29-5/32                                                                   |         |        |  | 64-31/32 x 68-29/32 x 29-5/32                                                                   |                                  |        |  |  |
|                                                     |                              | mm                               | 1,650 x 1,750 x 740                                                                             |         |        |  | 1,650 x 1,750 x 740                                                                             |                                  |        |  |  |
| Protection<br>devices                               | High pressure protection     |                                  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                |         |        |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                |                                  |        |  |  |
|                                                     | Inverter circuit (COMP./FAN) |                                  | Over-heat protection, Over-current protection                                                   |         |        |  | Over-heat protection, Over-current protection                                                   |                                  |        |  |  |
|                                                     | Fan motor                    |                                  | -                                                                                               |         |        |  | -                                                                                               |                                  |        |  |  |
| Refrigerant                                         | Type x original charge       |                                  | R410A x 26 lbs + 1 oz (11.8 kg)                                                                 |         |        |  | R410A x 26 lbs + 1 oz (11.8 kg)                                                                 |                                  |        |  |  |
| Net weight                                          |                              | lbs (kg)                         | 748 (339)                                                                                       |         |        |  | 748 (339)                                                                                       |                                  |        |  |  |
| Heat exchanger                                      |                              |                                  | Salt-resistant cross fin & copper tube                                                          |         |        |  | Salt-resistant cross fin & copper tube                                                          |                                  |        |  |  |
| Optional parts                                      |                              |                                  | joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2<br>Header: CMY-Y104/108/1010C-G                           |         |        |  | joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2<br>Header: CMY-Y104/108/1010C-G                           |                                  |        |  |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZSKMU-B(-BS)



## ► Specifications

| Outdoor Model                                    |                              |                        | PUHY-P168ZSKMU-B (-BS)                                                                                     |                |                                 | PUHY-P192ZSKMU-B (-BS)                                                                                         |                |                                 |         |
|--------------------------------------------------|------------------------------|------------------------|------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|---------------------------------|---------|
| Indoor Model                                     |                              |                        | Non-Ducted                                                                                                 |                | Ducted                          | Non-Ducted                                                                                                     |                | Ducted                          |         |
| Power source                                     |                              |                        | 3-phase 3-wire 575 V ±10% 60 Hz                                                                            |                |                                 | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                |                |                                 |         |
| Cooling capacity<br>(Nominal)                    | *1                           | BTU/h                  | 168,000                                                                                                    |                |                                 | 192,000                                                                                                        |                |                                 |         |
|                                                  |                              | kW                     | 49.2                                                                                                       |                |                                 | 56.3                                                                                                           |                |                                 |         |
|                                                  | (575)                        | Power input            | 12.81                                                                                                      |                |                                 | 14.56                                                                                                          |                |                                 |         |
|                                                  |                              | Current input          | 14.2                                                                                                       |                |                                 | 16.2                                                                                                           |                |                                 |         |
|                                                  | (Rated)                      |                        | BTU/h                                                                                                      | 160,000        |                                 |                                                                                                                | 184,000        |                                 |         |
|                                                  |                              |                        | kW                                                                                                         | 46.9           |                                 |                                                                                                                | 53.9           |                                 |         |
| (575)                                            | Power input                  | kW                     | 13.84                                                                                                      |                | 13.63                           | 17.13                                                                                                          |                | 16.12                           |         |
|                                                  | Current input                | A                      | 15.4                                                                                                       |                | 15.2                            | 19.1                                                                                                           |                | 17.9                            |         |
| Temp. range of cooling                           | Indoor                       | W.B.                   | 59~75°F (15~24°C)                                                                                          |                |                                 | 59~75°F (15~24°C)                                                                                              |                |                                 |         |
|                                                  | Outdoor                      | D.B.                   | 23~115°F (-5~46°C)                                                                                         |                |                                 | 23~115°F (-5~46°C)                                                                                             |                |                                 |         |
| Heating capacity<br>(Nominal)                    | *2                           | BTU/h                  | 188,000                                                                                                    |                |                                 | 215,000                                                                                                        |                |                                 |         |
|                                                  |                              | kW                     | 55.1                                                                                                       |                |                                 | 63.0                                                                                                           |                |                                 |         |
|                                                  | (575)                        | Power input            | 14.54                                                                                                      |                |                                 | 17.16                                                                                                          |                |                                 |         |
|                                                  |                              | Current input          | 16.2                                                                                                       |                |                                 | 19.1                                                                                                           |                |                                 |         |
|                                                  | (Rated)                      |                        | BTU/h                                                                                                      | 179,000        |                                 |                                                                                                                | 205,000        |                                 |         |
|                                                  |                              |                        | kW                                                                                                         | 52.5           |                                 |                                                                                                                | 60.1           |                                 |         |
| (575)                                            | Power input                  | kW                     | 13.29                                                                                                      |                | 13.53                           | 15.88                                                                                                          |                | 15.78                           |         |
|                                                  | Current input                | A                      | 14.8                                                                                                       |                | 15.0                            | 17.7                                                                                                           |                | 17.6                            |         |
| Temp. range of heating                           | Indoor                       | D.B.                   | 59~81°F (15~27°C)                                                                                          |                |                                 | 59~81°F (15~27°C)                                                                                              |                |                                 |         |
|                                                  | Outdoor                      | W.B.                   | -4~60°F (-20~15.5°C)                                                                                       |                |                                 | -4~60°F (-20~15.5°C)                                                                                           |                |                                 |         |
| Indoor unit connectable                          | Total capacity               |                        | 50~130% of outdoor unit capacity                                                                           |                |                                 | 50~130% of outdoor unit capacity                                                                               |                |                                 |         |
|                                                  | Model/Quantity               |                        | P04~P96/1~42                                                                                               |                |                                 | P04~P96/1~48                                                                                                   |                |                                 |         |
| Sound pressure level (measured in anechoic room) |                              | dB <A>                 | 83.5                                                                                                       |                |                                 | 82.5                                                                                                           |                |                                 |         |
| Refrigerant                                      | Liquid pipe                  | in. (mm)               | 5/8 (15.88) Brazed                                                                                         |                |                                 | 5/8 (15.88) Brazed                                                                                             |                |                                 |         |
| piping diameter                                  | Gas pipe                     | in. (mm)               | 1-1/8 (28.58) Brazed                                                                                       |                |                                 | 1-1/8 (28.58) Brazed                                                                                           |                |                                 |         |
| Set Model                                        |                              |                        |                                                                                                            |                |                                 |                                                                                                                |                |                                 |         |
| Model                                            |                              |                        | PUHY-P72ZKMU-B (-BS)                                                                                       |                | PUHY-P96ZKMU-B (-BS)            | PUHY-P72ZKMU-B (-BS)                                                                                           |                | PUHY-P120ZKMU-B (-BS)           |         |
| Minimum Circuit Ampacity                         |                              | A                      | 11                                                                                                         |                | 15                              | 11                                                                                                             |                | 19                              |         |
| Maximum Overcurrent Protection                   |                              | A                      | 15                                                                                                         |                | 25                              | 15                                                                                                             |                | 30                              |         |
| FAN                                              | Type x Quantity              |                        | Propeller fan x 1                                                                                          |                | Propeller fan x 1               | Propeller fan x 1                                                                                              |                | Propeller fan x 2               |         |
|                                                  | Airflow rate                 | cfm                    | 6,200                                                                                                      |                | 6,700                           | 6,200                                                                                                          |                | 11,300                          |         |
|                                                  |                              | m³/min                 | 175                                                                                                        |                | 190                             | 175                                                                                                            |                | 320                             |         |
|                                                  |                              | L/s                    | 2,920                                                                                                      |                | 3,170                           | 2,920                                                                                                          |                | 5,330                           |         |
|                                                  | Control, Driving mechanism   |                        | Inverter-control, Brushless DC motor                                                                       |                |                                 | Inverter-control, Brushless DC motor                                                                           |                |                                 |         |
|                                                  | *3                           | Motor output           | kW                                                                                                         | 0.92           |                                 | 0.92                                                                                                           | 0.92           |                                 | 0.92 x2 |
| External static press.                           |                              | 0 in.WG (0 Pa)         |                                                                                                            | 0 in.WG (0 Pa) | 0 in.WG (0 Pa)                  |                                                                                                                | 0 in.WG (0 Pa) |                                 |         |
| Compressor                                       | Type x Quantity              |                        | Inverter scroll hermetic compressor x 1                                                                    |                |                                 | Inverter scroll hermetic compressor x 1                                                                        |                |                                 |         |
|                                                  | Starting method              |                        | Inverter                                                                                                   |                | Inverter                        | Inverter                                                                                                       |                | Inverter                        |         |
|                                                  | Motor output                 | kW                     | 5.6 x 1                                                                                                    |                | 6.9 x 1                         | 5.6 x 1                                                                                                        |                | 8.2 x 1                         |         |
|                                                  | Case heater                  | kW                     | 0.035                                                                                                      |                | 0.035                           | 0.035                                                                                                          |                | 0.045                           |         |
| External finish                                  |                              |                        | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>            |                |                                 | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                |                |                                 |         |
| External dimension H x W x D                     |                              | in.                    | 64-31/32 x 36-1/4 x 29-5/32                                                                                |                | 64-31/32 x 48-1/16 x 29-5/32    | 64-31/32 x 36-1/4 x 29-5/32                                                                                    |                | 64-31/32 x 68-29/32 x 29-5/32   |         |
|                                                  |                              | mm                     | 1,650 x 920 x 740                                                                                          |                | 1,650 x 1,220 x 740             | 1,650 x 920 x 740                                                                                              |                | 1,650 x 1,750 x 740             |         |
| Protection devices                               | High pressure protection     |                        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                           |                |                                 | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                               |                |                                 |         |
|                                                  | Inverter circuit (COMP./FAN) |                        | Over-heat protection, Over-current protection                                                              |                |                                 | Over-heat protection, Over-current protection                                                                  |                |                                 |         |
|                                                  | Fan motor                    |                        | -                                                                                                          |                |                                 | -                                                                                                              |                |                                 |         |
| Refrigerant                                      |                              | Type x original charge | R410A x 19 lbs + 13 oz (9.0 kg)                                                                            |                | R410A x 25 lbs + 6 oz (11.5 kg) | R410A x 19 lbs + 13 oz (9.0 kg)                                                                                |                | R410A x 26 lbs + 1 oz (11.8 kg) |         |
| Net weight                                       |                              | lbs (kg)               | 490 (222)                                                                                                  |                | 563 (255)                       | 490 (222)                                                                                                      |                | 748 (339)                       |         |
| Heat exchanger                                   |                              |                        | Salt-resistant cross fin & copper tube                                                                     |                |                                 | Salt-resistant cross fin & copper tube                                                                         |                |                                 |         |
| Optional parts                                   |                              |                        | Outdoor Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2<br>Header: CMY-Y104/108/1010C-G |                |                                 | Outdoor Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS/LS-G2,CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010C-G |                |                                 |         |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZSKMU-B(-BS)



## ► Specifications

| Outdoor Model                                       |                              |                                         | PUHY-P216ZSKMU-B (-BS)                                                                                          |                                         |                                      | PUHY-P240ZSKMU-B (-BS)                                                                                          |                                      |                                         |        |
|-----------------------------------------------------|------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|--------|
| Indoor Model                                        |                              |                                         | Non-Ducted                                                                                                      |                                         | Ducted                               | Non-Ducted                                                                                                      |                                      | Ducted                                  |        |
| Power source                                        |                              |                                         | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                 |                                         |                                      | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                 |                                      |                                         |        |
| Cooling capacity<br>(Nominal)                       | *1                           | BTU/h                                   | 216,000                                                                                                         |                                         |                                      | 240,000                                                                                                         |                                      |                                         |        |
|                                                     |                              | *1                                      | kW                                                                                                              | 63.3                                    |                                      |                                                                                                                 | 70.3                                 |                                         |        |
| (575)                                               | Power input                  | kW                                      | 16.91                                                                                                           |                                         |                                      | 18.67                                                                                                           |                                      |                                         |        |
|                                                     |                              | Current input                           | A                                                                                                               | 18.8                                    |                                      |                                                                                                                 | 20.8                                 |                                         |        |
| (Rated)                                             | (575)                        | BTU/h                                   | 206,000                                                                                                         |                                         |                                      | 230,000                                                                                                         |                                      |                                         |        |
|                                                     |                              | kW                                      | 60.4                                                                                                            |                                         |                                      | 67.4                                                                                                            |                                      |                                         |        |
| (575)                                               | Power input                  | kW                                      | 18.31                                                                                                           | 18.39                                   |                                      | 22.26                                                                                                           | 20.34                                |                                         |        |
|                                                     |                              | Current input                           | A                                                                                                               | 20.4                                    | 20.5                                 |                                                                                                                 | 24.8                                 | 22.6                                    |        |
| Temp. range of<br>cooling                           | Indoor                       | W.B.                                    | 59~75°F (15~24°C)                                                                                               |                                         |                                      | 59~75°F (15~24°C)                                                                                               |                                      |                                         |        |
|                                                     | Outdoor                      | D.B.                                    | 23~115°F (-5~46°C)                                                                                              |                                         |                                      | 23~115°F (-5~46°C)                                                                                              |                                      |                                         |        |
| Heating capacity<br>(Nominal)                       | *2                           | BTU/h                                   | 243,000                                                                                                         |                                         |                                      | 270,000                                                                                                         |                                      |                                         |        |
|                                                     |                              | *2                                      | kW                                                                                                              | 71.2                                    |                                      |                                                                                                                 | 79.1                                 |                                         |        |
| (575)                                               | Power input                  | kW                                      | 19.69                                                                                                           |                                         |                                      | 22.14                                                                                                           |                                      |                                         |        |
|                                                     |                              | Current input                           | A                                                                                                               | 21.9                                    |                                      |                                                                                                                 | 24.7                                 |                                         |        |
| (Rated)                                             | (575)                        | BTU/h                                   | 232,000                                                                                                         |                                         |                                      | 258,000                                                                                                         |                                      |                                         |        |
|                                                     |                              | kW                                      | 68.0                                                                                                            |                                         |                                      | 75.6                                                                                                            |                                      |                                         |        |
| (575)                                               | Power input                  | kW                                      | 18.61                                                                                                           | 17.69                                   |                                      | 20.82                                                                                                           | 20.07                                |                                         |        |
|                                                     |                              | Current input                           | A                                                                                                               | 20.7                                    | 19.7                                 |                                                                                                                 | 23.2                                 | 22.3                                    |        |
| Temp. range of<br>heating                           | Indoor                       | D.B.                                    | 59~81°F (15~27°C)                                                                                               |                                         |                                      | 59~81°F (15~27°C)                                                                                               |                                      |                                         |        |
|                                                     | Outdoor                      | W.B.                                    | -4~60°F (-20~15.5°C)                                                                                            |                                         |                                      | -4~60°F (-20~15.5°C)                                                                                            |                                      |                                         |        |
| Indoor unit<br>connectable                          | Total capacity               | 50~130% of outdoor unit capacity        |                                                                                                                 |                                         | 50~130% of outdoor unit capacity     |                                                                                                                 |                                      |                                         |        |
|                                                     | Model/Quantity               | P04~P96/2~50                            |                                                                                                                 |                                         | P04~P96/2~50                         |                                                                                                                 |                                      |                                         |        |
| Sound pressure level<br>(measured in anechoic room) | dB <A>                       | 84.0                                    |                                                                                                                 |                                         | 82.5                                 |                                                                                                                 |                                      |                                         |        |
| Refrigerant<br>piping diameter                      | Liquid pipe                  | in. (mm)                                | 5/8 (15.88) Brazed                                                                                              |                                         |                                      | 5/8 (15.88) Brazed                                                                                              |                                      |                                         |        |
|                                                     | Gas pipe                     | in. (mm)                                | 1-1/8 (28.58) Brazed                                                                                            |                                         |                                      | 1-1/8 (28.58) Brazed                                                                                            |                                      |                                         |        |
| Set Model                                           |                              |                                         |                                                                                                                 |                                         |                                      |                                                                                                                 |                                      |                                         |        |
| Model                                               |                              |                                         | PUHY-P96ZKMU-B (-BS)                                                                                            |                                         | PUHY-P120ZKMU-B (-BS)                | PUHY-P120ZKMU-B (-BS)                                                                                           |                                      | PUHY-P120ZKMU-B (-BS)                   |        |
| Minimum Circuit Ampacity                            |                              | A                                       | 15                                                                                                              |                                         | 19                                   | 19                                                                                                              |                                      | 19                                      |        |
| Maximum Overcurrent Protection                      |                              | A                                       | 20                                                                                                              |                                         | 30                                   | 30                                                                                                              |                                      | 30                                      |        |
| FAN                                                 | Type x Quantity              | Airflow rate                            | Propeller fan x 1                                                                                               |                                         | Propeller fan x 2                    | Propeller fan x 2                                                                                               |                                      | Propeller fan x 2                       |        |
|                                                     |                              |                                         | cfm                                                                                                             | 6,700                                   |                                      | 11,300                                                                                                          | 11,300                               |                                         | 11,300 |
|                                                     |                              |                                         |                                                                                                                 | m³/min                                  | 190                                  |                                                                                                                 | 320                                  | 320                                     |        |
|                                                     | Control, Driving mechanism   | L/s                                     | 3,170                                                                                                           |                                         | 5,330                                | 5,330                                                                                                           |                                      | 5,330                                   |        |
|                                                     |                              |                                         | Inverter-control, Brushless DC motor                                                                            |                                         | Inverter-control, Brushless DC motor |                                                                                                                 | Inverter-control, Brushless DC motor |                                         |        |
|                                                     |                              |                                         | Motor output                                                                                                    | kW                                      | 0.92                                 |                                                                                                                 | 0.92 ×2                              | 0.92 ×2                                 |        |
| Compressor                                          | *3                           | External static press.                  | 0 in.WG (0 Pa)                                                                                                  |                                         | 0 in.WG (0 Pa)                       | 0 in.WG (0 Pa)                                                                                                  |                                      | 0 in.WG (0 Pa)                          |        |
|                                                     | Type x Quantity              | Inverter scroll hermetic compressor x 1 |                                                                                                                 | Inverter scroll hermetic compressor x 1 |                                      | Inverter scroll hermetic compressor x 1                                                                         |                                      | Inverter scroll hermetic compressor x 1 |        |
|                                                     | Starting method              | Inverter                                |                                                                                                                 | Inverter                                |                                      | Inverter                                                                                                        |                                      | Inverter                                |        |
|                                                     | Motor output                 | kW                                      | 6.9 x 1                                                                                                         |                                         | 8.2 x 1                              | 8.2 x 1                                                                                                         |                                      | 8.2 x 1                                 |        |
|                                                     | Case heater                  | kW                                      | 0.035                                                                                                           |                                         | 0.045                                | 0.045                                                                                                           |                                      | 0.045                                   |        |
| External finish                                     |                              |                                         | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                 |                                         |                                      | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                 |                                      |                                         |        |
| External dimension H x W x D                        |                              | in.                                     | 64-31/32 x 48-1/16 x 29-5/32                                                                                    |                                         | 64-31/32 x 68-29/32 x 29-5/32        | 64-31/32 x 68-29/32 x 29-5/32                                                                                   |                                      | 64-31/32 x 68-29/32 x 29-5/32           |        |
|                                                     |                              | mm                                      | 1,650 x 1,220 x 740                                                                                             |                                         | 1,650 x 1,750 x 740                  | 1,650 x 1,750 x 740                                                                                             |                                      | 1,650 x 1,750 x 740                     |        |
| Protection<br>devices                               | High pressure protection     |                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                |                                         |                                      | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                |                                      |                                         |        |
|                                                     | Inverter circuit (COMP./FAN) |                                         | Over-heat protection, Over-current protection                                                                   |                                         |                                      | Over-heat protection, Over-current protection                                                                   |                                      |                                         |        |
|                                                     | Fan motor                    |                                         | -                                                                                                               |                                         |                                      | -                                                                                                               |                                      |                                         |        |
| Refrigerant                                         |                              | Type x original charge                  | R410A x 25 lbs + 6 oz (11.5 kg)                                                                                 |                                         | R410A x 26 lbs + 1 oz (11.8 kg)      | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                 |                                      | R410A x 26 lbs + 1 oz (11.8 kg)         |        |
| Net weight                                          |                              | lbs (kg)                                | 563 (255)                                                                                                       |                                         | 748 (339)                            | 748 (339)                                                                                                       |                                      | 748 (339)                               |        |
| Heat exchanger                                      |                              |                                         | Salt-resistant cross fin & copper tube                                                                          |                                         |                                      | Salt-resistant cross fin & copper tube                                                                          |                                      |                                         |        |
| Optional parts                                      |                              |                                         | Outdoor Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010C-G |                                         |                                      | Outdoor Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010C-G |                                      |                                         |        |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZSKMU-B(-BS)



## ► Specifications

| Outdoor Model                                    |                             |                                         | PUHY-P264ZSKMU-B (-BS)                                                                                          |                             |                                 |                             | PUHY-P288ZSKMU-B (-BS)           |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|--------------------------------------------------|-----------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|-----------------------------|----------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|------------------------------|---------------------------------|-------------------------------|----|--|
| Indoor Model                                     |                             |                                         | Non-Ducted                                                                                                      |                             | Ducted                          |                             | Non-Ducted                       |                                         | Ducted                                                                                                          |                             |                                 |                              |                                 |                               |    |  |
| Power source                                     |                             |                                         | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                 |                             |                                 |                             | 3-phase 3-wire 575 V ±10% 60 Hz  |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Cooling capacity (Nominal)                       | *1                          | BTU/h                                   | 264,000                                                                                                         |                             |                                 |                             | 288,000                          |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | *1                          | kW                                      | 77.4                                                                                                            |                             |                                 |                             | 84.4                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| (575)                                            | Power input                 | kW                                      | 20.50                                                                                                           |                             |                                 |                             | 22.57                            |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Current input               | A                                       | 22.8                                                                                                            |                             |                                 |                             | 25.1                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | (Rated)                     | BTU/h                                   | 252,000                                                                                                         |                             |                                 |                             | 276,000                          |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  |                             | kW                                      | 73.9                                                                                                            |                             |                                 |                             | 80.9                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| (575)                                            | Power input                 | kW                                      | 23.01                                                                                                           | 21.46                       |                                 | 25.68                       | 23.94                            |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Current input               | A                                       | 25.6                                                                                                            | 23.9                        |                                 | 28.6                        | 26.7                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Temp. range of cooling                           | Indoor                      | W.B.                                    | 59~75°F (15~24°C)                                                                                               |                             |                                 |                             | 59~75°F (15~24°C)                |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Outdoor                     | D.B.                                    | 23~115°F (-5~46°C)                                                                                              |                             |                                 |                             | 23~115°F (-5~46°C)               |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Heating capacity (Nominal)                       | *2                          | BTU/h                                   | 295,000                                                                                                         |                             |                                 |                             | 323,000                          |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | *2                          | kW                                      | 86.5                                                                                                            |                             |                                 |                             | 94.7                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| (575)                                            | Power input                 | kW                                      | 23.80                                                                                                           |                             |                                 |                             | 26.12                            |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Current input               | A                                       | 26.5                                                                                                            |                             |                                 |                             | 29.1                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | (Rated)                     | BTU/h                                   | 281,000                                                                                                         |                             |                                 |                             | 308,000                          |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  |                             | kW                                      | 82.4                                                                                                            |                             |                                 |                             | 90.3                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| (575)                                            | Power input                 | kW                                      | 22.27                                                                                                           | 21.73                       |                                 | 24.66                       | 23.70                            |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Current input               | A                                       | 24.8                                                                                                            | 24.2                        |                                 | 27.5                        | 26.4                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Temp. range of heating                           | Indoor                      | D.B.                                    | 59~81°F (15~27°C)                                                                                               |                             |                                 |                             | 59~81°F (15~27°C)                |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Outdoor                     | W.B.                                    | -4~60°F (-20~15.5°C)                                                                                            |                             |                                 |                             | -4~60°F (-20~15.5°C)             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Indoor unit connectable                          | Total capacity              |                                         | 50~130% of outdoor unit capacity                                                                                |                             |                                 |                             | 50~130% of outdoor unit capacity |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Model/Quantity              |                                         | P04~P96/2~50                                                                                                    |                             |                                 |                             | P04~P96/2~50                     |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Sound pressure level (measured in anechoic room) |                             | dB <A>                                  | 84.0                                                                                                            |                             |                                 |                             | 85.0                             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Refrigerant                                      | Liquid pipe                 | in. (mm)                                | 3/4 (19.05) Brazed                                                                                              |                             |                                 |                             | 3/4 (19.05) Brazed               |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| piping diameter                                  | Gas pipe                    | in. (mm)                                | 1-3/8 (34.93) Brazed                                                                                            |                             |                                 |                             | 1-3/8 (34.93) Brazed             |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Set Model                                        |                             |                                         |                                                                                                                 |                             |                                 |                             |                                  |                                         |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
| Model                                            |                             |                                         | PUHY-P72ZKMU-B (-BS)                                                                                            |                             | PUHY-P72ZKMU-B (-BS)            |                             | PUHY-P120ZKMU-B (-BS)            |                                         | PUHY-P72ZKMU-B (-BS)                                                                                            |                             | PUHY-P96ZKMU-B (-BS)            |                              | PUHY-P120ZKMU-B (-BS)           |                               |    |  |
| Minimum Circuit Ampacity                         |                             |                                         | A                                                                                                               |                             | 11                              |                             | 11                               |                                         | 19                                                                                                              |                             | 11                              |                              | 15                              |                               | 19 |  |
| Maximum Overcurrent Protection                   |                             |                                         | A                                                                                                               |                             | 15                              |                             | 15                               |                                         | 30                                                                                                              |                             | 15                              |                              | 25                              |                               | 30 |  |
| FAN                                              | Type x Quantity             | Propeller fan x 1                       |                                                                                                                 | Propeller fan x 1           |                                 | Propeller fan x 2           |                                  | Propeller fan x 1                       |                                                                                                                 | Propeller fan x 1           |                                 | Propeller fan x 1            |                                 | Propeller fan x 2             |    |  |
|                                                  |                             | Airflow rate                            | cfm                                                                                                             | 6,200                       |                                 | 6,200                       |                                  | 11,300                                  |                                                                                                                 | 6,200                       |                                 | 6,700                        |                                 | 11,300                        |    |  |
|                                                  |                             |                                         | m³/min                                                                                                          | 175                         |                                 | 175                         |                                  | 320                                     |                                                                                                                 | 175                         |                                 | 190                          |                                 | 320                           |    |  |
|                                                  |                             |                                         | L/s                                                                                                             | 2,920                       |                                 | 2,920                       |                                  | 5,330                                   |                                                                                                                 | 2,920                       |                                 | 3,170                        |                                 | 5,330                         |    |  |
|                                                  | Control, Driving mechanism  |                                         | Inverter-control, Brushless DC motor                                                                            |                             |                                 |                             |                                  |                                         | Inverter-control, Brushless DC motor                                                                            |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Motor output                | kW                                      | 0.92                                                                                                            |                             | 0.92                            |                             | 0.92 ×2                          |                                         | 0.92                                                                                                            |                             | 0.92                            |                              | 0.92 ×2                         |                               |    |  |
|                                                  | *3 External static press.   |                                         | 0 in.WG (0 Pa)                                                                                                  |                             | 0 in.WG (0 Pa)                  |                             | 0 in.WG (0 Pa)                   |                                         | 0 in.WG (0 Pa)                                                                                                  |                             | 0 in.WG (0 Pa)                  |                              | 0 in.WG (0 Pa)                  |                               |    |  |
| Compressor                                       | Type x Quantity             | Inverter scroll hermetic compressor x 1 |                                                                                                                 |                             |                                 |                             |                                  | Inverter scroll hermetic compressor x 1 |                                                                                                                 |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Starting method             | Inverter                                |                                                                                                                 | Inverter                    |                                 | Inverter                    |                                  | Inverter                                |                                                                                                                 | Inverter                    |                                 | Inverter                     |                                 |                               |    |  |
|                                                  | Motor output                | kW                                      | 5.6                                                                                                             |                             | 5.6                             |                             | 8.2                              |                                         | 5.6                                                                                                             |                             | 6.9                             |                              | 8.2                             |                               |    |  |
|                                                  | Case heater                 | kW                                      | 0.035                                                                                                           |                             | 0.035                           |                             | 0.045                            |                                         | 0.035                                                                                                           |                             | 0.035                           |                              | 0.045                           |                               |    |  |
| External finish                                  |                             |                                         | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                 |                             |                                 |                             |                                  |                                         | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                 |                             |                                 |                              |                                 |                               |    |  |
| External dimension H x W x D                     |                             |                                         | in.                                                                                                             | 64-31/32 x 36-1/4 x 29-5/32 |                                 | 64-31/32 x 36-1/4 x 29-5/32 |                                  | 64-31/32 x 68-29/32 x 29-5/32           |                                                                                                                 | 64-31/32 x 36-1/4 x 29-5/32 |                                 | 64-31/32 x 48-1/16 x 29-5/32 |                                 | 64-31/32 x 68-29/32 x 29-5/32 |    |  |
|                                                  |                             |                                         | mm                                                                                                              | 1,650 x 920 x 740           |                                 | 1,650 x 920 x 740           |                                  | 1,650 x 1,750 x 740                     |                                                                                                                 | 1,650 x 920 x 740           |                                 | 1,650 x 1,220 x 740          |                                 | 1,650 x 1,750 x 740           |    |  |
| Protection devices                               | High pressure protection    |                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                |                             |                                 |                             |                                  |                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Inverter circuit (COMP/FAN) |                                         | Over-heat protection, Over-current protection                                                                   |                             |                                 |                             |                                  |                                         | Over-heat protection, Over-current protection                                                                   |                             |                                 |                              |                                 |                               |    |  |
|                                                  | Fan motor                   |                                         | -                                                                                                               |                             |                                 |                             |                                  |                                         | -                                                                                                               |                             |                                 |                              |                                 |                               |    |  |
| Refrigerant                                      | Type x original charge      |                                         | R410A x 19 lbs + 13 oz (9.0 kg)                                                                                 |                             | R410A x 19 lbs + 13 oz (9.0 kg) |                             | R410A x 26 lbs + 1 oz (11.8 kg)  |                                         | R410A x 19 lbs + 13 oz (9.0 kg)                                                                                 |                             | R410A x 25 lbs + 6 oz (11.5 kg) |                              | R410A x 26 lbs + 1 oz (11.8 kg) |                               |    |  |
| Net weight                                       |                             | lbs (kg)                                | 490 (222)                                                                                                       |                             | 490 (222)                       |                             | 748 (339)                        |                                         | 490 (222)                                                                                                       |                             | 563 (255)                       |                              | 748 (339)                       |                               |    |  |
| Heat exchanger                                   |                             |                                         | Salt-resistant cross fin & copper tube                                                                          |                             |                                 |                             |                                  |                                         | Salt-resistant cross fin & copper tube                                                                          |                             |                                 |                              |                                 |                               |    |  |
| Optional parts                                   |                             |                                         | Outdoor Twinning kit: CMY-Y300CBK2<br>joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010C-G |                             |                                 |                             |                                  |                                         | Outdoor Twinning kit: CMY-Y300CBK2<br>joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010C-G |                             |                                 |                              |                                 |                               |    |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## Y-Series (575V)

### PUHY-P ZSKMU-B(-BS)



## ► Specifications

| Outdoor Model                                    |                             |                                  | PUHY-P312ZSKMU-B (-BS)                                                                                           |                                         |                                 |                                  | PUHY-P336ZSKMU-B (-BS)          |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|--------------------------------------------------|-----------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|----------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|----------|---------------------------------|----------|--|
| Indoor Model                                     |                             |                                  | Non-Ducted                                                                                                       |                                         | Ducted                          |                                  | Non-Ducted                      |                               | Ducted                                                                                                           |                                         |                                 |          |                                 |          |  |
| Power source                                     |                             |                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                  |                                         |                                 |                                  | 3-phase 3-wire 575 V ±10% 60 Hz |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Cooling capacity (Nominal)                       | *1                          | BTU/h                            | 312,000                                                                                                          |                                         |                                 |                                  | 336,000                         |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | *1                          | kW                               | 91.4                                                                                                             |                                         |                                 |                                  | 98.5                            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| (575)                                            | Power input                 | kW                               | 24.32                                                                                                            |                                         |                                 |                                  | 26.78                           |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Current input               | A                                | 27.1                                                                                                             |                                         |                                 |                                  | 29.8                            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | (Rated)                     | BTU/h                            | 298,000                                                                                                          |                                         |                                 |                                  | 320,000                         |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  |                             | kW                               | 87.3                                                                                                             |                                         |                                 |                                  | 93.8                            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| (575)                                            | Power input                 | kW                               | 29.32                                                                                                            |                                         | 26.09                           |                                  | 31.08                           |                               | 28.26                                                                                                            |                                         |                                 |          |                                 |          |  |
|                                                  | Current input               | A                                | 32.7                                                                                                             |                                         | 29.1                            |                                  | 34.6                            |                               | 31.5                                                                                                             |                                         |                                 |          |                                 |          |  |
| Temp. range of cooling                           | Indoor                      | W.B.                             | 59~75°F (15~24°C)                                                                                                |                                         |                                 |                                  | 59~75°F (15~24°C)               |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Outdoor                     | D.B.                             | 23~115°F (-5~46°C)                                                                                               |                                         |                                 |                                  | 23~115°F (-5~46°C)              |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Heating capacity (Nominal)                       | *2                          | BTU/h                            | 350,000                                                                                                          |                                         |                                 |                                  | 378,000                         |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | *2                          | kW                               | 102.6                                                                                                            |                                         |                                 |                                  | 110.8                           |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| (575)                                            | Power input                 | kW                               | 28.41                                                                                                            |                                         |                                 |                                  | 31.66                           |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Current input               | A                                | 31.6                                                                                                             |                                         |                                 |                                  | 35.3                            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| (Rated)                                          | (575)                       | BTU/h                            | 334,000                                                                                                          |                                         |                                 |                                  | 361,000                         |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  |                             | kW                               | 97.9                                                                                                             |                                         |                                 |                                  | 105.8                           |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Power input                 | kW                               | 26.72                                                                                                            |                                         | 25.97                           |                                  | 30.33                           |                               | 28.45                                                                                                            |                                         |                                 |          |                                 |          |  |
|                                                  | Current input               | A                                | 29.8                                                                                                             |                                         | 28.9                            |                                  | 33.8                            |                               | 31.7                                                                                                             |                                         |                                 |          |                                 |          |  |
| Temp. range of heating                           | Indoor                      | D.B.                             | 59~81°F (15~27°C)                                                                                                |                                         |                                 |                                  | 59~81°F (15~27°C)               |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Outdoor                     | W.B.                             | -4~60°F (-20~15.5°C)                                                                                             |                                         |                                 |                                  | -4~60°F (-20~15.5°C)            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Indoor unit connectable                          | Total capacity              | 50~130% of outdoor unit capacity |                                                                                                                  |                                         |                                 | 50~130% of outdoor unit capacity |                                 |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
|                                                  | Model/Quantity              | P04~P96/2~50                     |                                                                                                                  |                                         |                                 | P04~P96/2~50                     |                                 |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Sound pressure level (measured in anechoic room) | dB <A>                      | 84.5                             |                                                                                                                  |                                         |                                 | 85.0                             |                                 |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Refrigerant                                      | Liquid pipe                 | in. (mm)                         | 3/4 (19.05) Brazed                                                                                               |                                         |                                 |                                  | 3/4 (19.05) Brazed              |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| piping diameter                                  | Gas pipe                    | in. (mm)                         | 1-3/8 (34.93) Brazed                                                                                             |                                         |                                 |                                  | 1-5/8 (41.28) Brazed            |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Set Model                                        |                             |                                  |                                                                                                                  |                                         |                                 |                                  |                                 |                               |                                                                                                                  |                                         |                                 |          |                                 |          |  |
| Model                                            |                             |                                  | PUHY-P72ZKMU-B (-BS)                                                                                             |                                         | PUHY-P120ZKMU-B (-BS)           |                                  | PUHY-P120ZKMU-B (-BS)           |                               | PUHY-P96ZKMU-B (-BS)                                                                                             |                                         | PUHY-P120ZKMU-B (-BS)           |          | PUHY-P120ZKMU-B (-BS)           |          |  |
| Minimum Circuit Ampacity                         |                             |                                  | A                                                                                                                | 11                                      | 19                              | 19                               | 15                              | 19                            | 19                                                                                                               |                                         |                                 |          |                                 |          |  |
| Maximum Overcurrent Protection                   |                             |                                  | A                                                                                                                | 15                                      | 30                              | 30                               | 20                              | 30                            | 30                                                                                                               |                                         |                                 |          |                                 |          |  |
| FAN                                              | Type x Quantity             |                                  | Propeller fan x 1                                                                                                |                                         | Propeller fan x 2               |                                  | Propeller fan x 2               |                               | Propeller fan x 1                                                                                                |                                         | Propeller fan x 2               |          | Propeller fan x 2               |          |  |
|                                                  | Airflow rate                | cfm                              | 6,200                                                                                                            |                                         | 11,300                          |                                  | 11,300                          |                               | 6,700                                                                                                            |                                         | 11,300                          |          | 11,300                          |          |  |
|                                                  |                             | m³/min                           | 175                                                                                                              |                                         | 320                             |                                  | 320                             |                               | 190                                                                                                              |                                         | 320                             |          | 320                             |          |  |
|                                                  |                             | L/s                              | 2,920                                                                                                            |                                         | 5,330                           |                                  | 5,330                           |                               | 3,170                                                                                                            |                                         | 5,330                           |          | 5,330                           |          |  |
|                                                  | Control, Driving mechanism  |                                  | Inverter-control, Brushless DC motor                                                                             |                                         |                                 |                                  |                                 |                               | Inverter-control, Brushless DC motor                                                                             |                                         |                                 |          |                                 |          |  |
|                                                  | Motor output                | kW                               | 0.92                                                                                                             |                                         | 0.92 ×2                         |                                  | 0.92 ×2                         |                               | 0.92                                                                                                             |                                         | 0.92 ×2                         |          | 0.92 ×2                         |          |  |
|                                                  | *3 External static press.   |                                  | 0 in.WG (0 Pa)                                                                                                   |                                         | 0 in.WG (0 Pa)                  |                                  | 0 in.WG (0 Pa)                  |                               | 0 in.WG (0 Pa)                                                                                                   |                                         | 0 in.WG (0 Pa)                  |          | 0 in.WG (0 Pa)                  |          |  |
|                                                  | Compressor                  | Type x Quantity                  |                                                                                                                  | Inverter scroll hermetic compressor x 1 |                                 |                                  |                                 |                               |                                                                                                                  | Inverter scroll hermetic compressor x 1 |                                 |          |                                 |          |  |
|                                                  |                             | Starting method                  |                                                                                                                  | Inverter                                |                                 | Inverter                         |                                 | Inverter                      |                                                                                                                  | Inverter                                |                                 | Inverter |                                 | Inverter |  |
|                                                  |                             | Motor output                     | kW                                                                                                               | 5.6                                     |                                 | 8.2                              |                                 | 8.2                           |                                                                                                                  | 6.9                                     |                                 | 8.2      |                                 | 8.2      |  |
| Case heater                                      |                             | kW                               | -                                                                                                                |                                         | -                               |                                  | -                               |                               | 0.035                                                                                                            |                                         | 0.045                           |          | 0.045                           |          |  |
| External finish                                  |                             |                                  | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                  |                                         |                                 |                                  |                                 |                               | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1 or similar>                  |                                         |                                 |          |                                 |          |  |
| External dimension H x W x D                     |                             |                                  | in.                                                                                                              | 64-31/32 x 36-1/4 x 29-5/32             | 64-31/32 x 68-29/32 x 29-5/32   | 64-31/32 x 68-29/32 x 29-5/32    | 64-31/32 x 48-1/16 x 29-5/32    | 64-31/32 x 68-29/32 x 29-5/32 | 64-31/32 x 68-29/32 x 29-5/32                                                                                    | 64-31/32 x 68-29/32 x 29-5/32           |                                 |          |                                 |          |  |
|                                                  |                             |                                  | mm                                                                                                               | 1,650 x 920 x 740                       | 1,650 x 1,750 x 740             | 1,650 x 1,750 x 740              | 1,650 x 1,220 x 740             | 1,650 x 1,750 x 740           | 1,650 x 1,750 x 740                                                                                              |                                         |                                 |          |                                 |          |  |
| Protection devices                               | High pressure protection    |                                  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                 |                                         |                                 |                                  |                                 |                               | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                 |                                         |                                 |          |                                 |          |  |
|                                                  | Inverter circuit (COMP/FAN) |                                  | Over -heat protection, Over-current protection                                                                   |                                         |                                 |                                  |                                 |                               | Over -heat protection, Over-current protection                                                                   |                                         |                                 |          |                                 |          |  |
|                                                  | Fan motor                   |                                  | -                                                                                                                |                                         |                                 |                                  |                                 |                               | -                                                                                                                |                                         |                                 |          |                                 |          |  |
| Refrigerant                                      | Type x original charge      |                                  | R410A x 19 lbs + 13 oz (9.0 kg)                                                                                  |                                         | R410A x 26 lbs + 1 oz (11.8 kg) |                                  | R410A x 26 lbs + 1 oz (11.8 kg) |                               | R410A x 25 lbs + 6 oz (11.5 kg)                                                                                  |                                         | R410A x 26 lbs + 1 oz (11.8 kg) |          | R410A x 26 lbs + 1 oz (11.8 kg) |          |  |
| Net weight                                       | lbs (kg)                    |                                  | 490 (222)                                                                                                        |                                         | 748 (339)                       |                                  | 748 (339)                       |                               | 563 (255)                                                                                                        |                                         | 748 (339)                       |          | 748 (339)                       |          |  |
| Heat exchanger                                   |                             |                                  | Salt-resistant cross fin & copper tube                                                                           |                                         |                                 |                                  |                                 |                               | Salt-resistant cross fin & copper tube                                                                           |                                         |                                 |          |                                 |          |  |
| Optional parts                                   |                             |                                  | Outdoor Twinning kit: CMY-Y300CBK2<br>joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2<br>Header: CMY-Y104/108/1010C-G |                                         |                                 |                                  |                                 |                               | Outdoor Twinning kit: CMY-Y300CBK2<br>joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2<br>Header: CMY-Y104/108/1010C-G |                                         |                                 |          |                                 |          |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.



# OUTDOOR UNIT

## R2-Series (575V)

### PURY-P ZKMU-B(-BS)



#### ► Specifications

| Outdoor Model                                       |                              |               | PURY-P72ZKMU-B (-BS)                                                                                                                                                                                                                                                       |  |        |  | PURY-P96ZKMU-B (-BS)                                                                                                                                                                                                                                                       |  |        |  |
|-----------------------------------------------------|------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|
| Indoor Model                                        |                              |               | Non-Ducted                                                                                                                                                                                                                                                                 |  | Ducted |  | Non-Ducted                                                                                                                                                                                                                                                                 |  | Ducted |  |
| Power source                                        |                              |               | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                            |  |        |  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                            |  |        |  |
| Cooling capacity<br>(Nominal)                       | *1                           | BTU/h         | 72,000                                                                                                                                                                                                                                                                     |  |        |  | 96,000                                                                                                                                                                                                                                                                     |  |        |  |
|                                                     |                              | kW            | 21.1                                                                                                                                                                                                                                                                       |  |        |  | 28.1                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     | (575)                        | Power input   | 5.11                                                                                                                                                                                                                                                                       |  |        |  | 7.06                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     |                              | Current input | 5.7                                                                                                                                                                                                                                                                        |  |        |  | 7.8                                                                                                                                                                                                                                                                        |  |        |  |
| (Rated)                                             |                              | BTU/h         | 69,000                                                                                                                                                                                                                                                                     |  |        |  | 92,000                                                                                                                                                                                                                                                                     |  |        |  |
|                                                     |                              | kW            | 20.2                                                                                                                                                                                                                                                                       |  |        |  | 27.0                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     | (575)                        | Power input   | 5.81                                                                                                                                                                                                                                                                       |  | 5.74   |  | 8.05                                                                                                                                                                                                                                                                       |  | 8.00   |  |
|                                                     |                              | Current input | 6.4                                                                                                                                                                                                                                                                        |  | 6.4    |  | 8.9                                                                                                                                                                                                                                                                        |  | 8.9    |  |
| Temp. range of<br>cooling                           | Indoor                       | W.B.          | 59~75°F (15~24°C)                                                                                                                                                                                                                                                          |  |        |  | 59~75°F (15~24°C)                                                                                                                                                                                                                                                          |  |        |  |
|                                                     | Outdoor                      | D.B.          | 23~115°F (-5~46°C)                                                                                                                                                                                                                                                         |  |        |  | 23~115°F (-5~46°C)                                                                                                                                                                                                                                                         |  |        |  |
| Heating capacity<br>(Nominal)                       | *2                           | BTU/h         | 80,000                                                                                                                                                                                                                                                                     |  |        |  | 108,000                                                                                                                                                                                                                                                                    |  |        |  |
|                                                     |                              | kW            | 23.4                                                                                                                                                                                                                                                                       |  |        |  | 31.7                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     | (575)                        | Power input   | 5.89                                                                                                                                                                                                                                                                       |  |        |  | 8.85                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     |                              | Current input | 6.5                                                                                                                                                                                                                                                                        |  |        |  | 9.8                                                                                                                                                                                                                                                                        |  |        |  |
| (Rated)                                             |                              | BTU/h         | 76,000                                                                                                                                                                                                                                                                     |  |        |  | 103,000                                                                                                                                                                                                                                                                    |  |        |  |
|                                                     |                              | kW            | 22.3                                                                                                                                                                                                                                                                       |  |        |  | 30.2                                                                                                                                                                                                                                                                       |  |        |  |
|                                                     | (575)                        | Power input   | 5.83                                                                                                                                                                                                                                                                       |  | 5.87   |  | 8.34                                                                                                                                                                                                                                                                       |  | 7.96   |  |
|                                                     |                              | Current input | 6.5                                                                                                                                                                                                                                                                        |  | 6.5    |  | 9.3                                                                                                                                                                                                                                                                        |  | 8.8    |  |
| Temp. range of<br>heating                           | Indoor                       | D.B.          | 59~81°F (15~27°C)                                                                                                                                                                                                                                                          |  |        |  | 59~81°F (15~27°C)                                                                                                                                                                                                                                                          |  |        |  |
|                                                     | Outdoor                      | W.B.          | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                                                       |  |        |  | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                                                       |  |        |  |
| Indoor unit<br>connectable                          | Total capacity               |               | 50~150% of outdoor unit capacity                                                                                                                                                                                                                                           |  |        |  | 50~150% of outdoor unit capacity                                                                                                                                                                                                                                           |  |        |  |
|                                                     | Model/Quantity               |               | P04~P96/1~18                                                                                                                                                                                                                                                               |  |        |  | P04~P96/1~24                                                                                                                                                                                                                                                               |  |        |  |
| Sound pressure level<br>(measured in anechoic room) |                              | dB <A>        | 81.0                                                                                                                                                                                                                                                                       |  |        |  | 81.5                                                                                                                                                                                                                                                                       |  |        |  |
| Refrigerant                                         | High pressure                | in. (mm)      | 5/8 (15.88) Brazed                                                                                                                                                                                                                                                         |  |        |  | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                         |  |        |  |
| piping diameter                                     | Low pressure                 | in. (mm)      | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                         |  |        |  | 7/8 (22.2) Brazed                                                                                                                                                                                                                                                          |  |        |  |
| Minimum Circuit Ampacity                            |                              | A             | 11                                                                                                                                                                                                                                                                         |  |        |  | 15                                                                                                                                                                                                                                                                         |  |        |  |
| Maximum Overcurrent Protection                      |                              | A             | 15                                                                                                                                                                                                                                                                         |  |        |  | 25                                                                                                                                                                                                                                                                         |  |        |  |
| FAN                                                 | Type x Quantity              |               | Propeller fan x 1                                                                                                                                                                                                                                                          |  |        |  | Propeller fan x 1                                                                                                                                                                                                                                                          |  |        |  |
|                                                     | Airflow rate                 | cfm           | 6,550                                                                                                                                                                                                                                                                      |  |        |  | 6,550                                                                                                                                                                                                                                                                      |  |        |  |
|                                                     |                              | m³/min        | 185                                                                                                                                                                                                                                                                        |  |        |  | 185                                                                                                                                                                                                                                                                        |  |        |  |
|                                                     |                              | L/s           | 3,080                                                                                                                                                                                                                                                                      |  |        |  | 3,080                                                                                                                                                                                                                                                                      |  |        |  |
|                                                     | Control, Driving mechanism   |               | Inverter-control, Brushless DC motor                                                                                                                                                                                                                                       |  |        |  | Inverter-control, Brushless DC motor                                                                                                                                                                                                                                       |  |        |  |
|                                                     | *3                           | Motor output  | kW                                                                                                                                                                                                                                                                         |  | 0.92   |  | 0.92                                                                                                                                                                                                                                                                       |  |        |  |
| Compressor                                          | External static press.       |               | 0 in.WG (0 Pa)                                                                                                                                                                                                                                                             |  |        |  | 0 in.WG (0 Pa)                                                                                                                                                                                                                                                             |  |        |  |
|                                                     | Type x Quantity              |               | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                    |  |        |  | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                    |  |        |  |
|                                                     | Starting method              |               | Inverter                                                                                                                                                                                                                                                                   |  |        |  | Inverter                                                                                                                                                                                                                                                                   |  |        |  |
|                                                     | Motor output                 |               | kW                                                                                                                                                                                                                                                                         |  | 4.7    |  | 6.6                                                                                                                                                                                                                                                                        |  |        |  |
|                                                     | Case heater                  |               | kW                                                                                                                                                                                                                                                                         |  | 0.035  |  | 0.035                                                                                                                                                                                                                                                                      |  |        |  |
| External finish                                     |                              |               | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1>                                                                                                                                                                                       |  |        |  | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1>                                                                                                                                                                                       |  |        |  |
| External dimension H x W x D                        |                              | in.           | 65 x 36-1/4 x 29-3/16                                                                                                                                                                                                                                                      |  |        |  | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                                                     |  |        |  |
|                                                     |                              | mm            | 1,650 x 920 x 740                                                                                                                                                                                                                                                          |  |        |  | 1,650 x 1,220 x 740                                                                                                                                                                                                                                                        |  |        |  |
| Protection<br>devices                               | High pressure protection     |               | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                           |  |        |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                           |  |        |  |
|                                                     | Inverter circuit (COMP./FAN) |               | Over-heat protection, Over-current protection                                                                                                                                                                                                                              |  |        |  | Over-heat protection, Over-current protection                                                                                                                                                                                                                              |  |        |  |
|                                                     |                              | Fan motor     | -                                                                                                                                                                                                                                                                          |  |        |  | -                                                                                                                                                                                                                                                                          |  |        |  |
| Refrigerant                                         | Type x original charge       |               | R410A x 21 lbs (9.5 kg)                                                                                                                                                                                                                                                    |  |        |  | R410A x 22 lbs + 12 oz (10.3 kg)                                                                                                                                                                                                                                           |  |        |  |
| Net weight                                          |                              | lbs (kg)      | 508 (230)                                                                                                                                                                                                                                                                  |  |        |  | 567 (257)                                                                                                                                                                                                                                                                  |  |        |  |
| Heat exchanger                                      |                              |               | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                     |  |        |  | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                                     |  |        |  |
| Optional parts                                      |                              |               | joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1,<br>CMY-R201, 301, 306S-G, CMY-R302, 303, 304, 305S-G1<br>BC controller: CMB-P104, 106, 108, 1012, 1016NU-J2<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |  |        |  | joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1,<br>CMY-R201, 301, 306S-G, CMY-R302, 303, 304, 305S-G1<br>BC controller: CMB-P104, 106, 108, 1012, 1016NU-J2<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |  |        |  |

#### Notes:

\*1, \*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.



# OUTDOOR UNIT

## R2-Series (575V)

### PURY-P ZKMU-B(-BS)



## ► Specifications

| Outdoor Model                                    |                             |                        | PURY-P120ZKMU-B (-BS)                                                                                                                                                                                                                                   |                      |        | PURY-P144ZKMU-B (-BS)                                                                                                                                                                                 |                      |        |  |
|--------------------------------------------------|-----------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--|
| Indoor Model                                     |                             |                        | Non-Ducted                                                                                                                                                                                                                                              |                      | Ducted | Non-Ducted                                                                                                                                                                                            |                      | Ducted |  |
| Power source                                     |                             |                        | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                         |                      |        | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                       |                      |        |  |
| Cooling capacity<br>(Nominal)                    | *1                          | BTU/h                  | 120,000                                                                                                                                                                                                                                                 |                      |        | 144,000                                                                                                                                                                                               |                      |        |  |
|                                                  |                             | *1 kW                  | 35.2                                                                                                                                                                                                                                                    |                      |        | 42.2                                                                                                                                                                                                  |                      |        |  |
|                                                  | (575)                       | Power input kW         | 8.62                                                                                                                                                                                                                                                    |                      |        | 11.13                                                                                                                                                                                                 |                      |        |  |
|                                                  |                             | Current input A        | 9.6                                                                                                                                                                                                                                                     |                      |        | 12.4                                                                                                                                                                                                  |                      |        |  |
|                                                  | (Rated)                     | BTU/h                  | 115000                                                                                                                                                                                                                                                  |                      |        | 138,000                                                                                                                                                                                               |                      |        |  |
|                                                  |                             | kW                     | 33.7                                                                                                                                                                                                                                                    |                      |        | 40.4                                                                                                                                                                                                  |                      |        |  |
|                                                  | (575)                       | Power input kW         | 10.55                                                                                                                                                                                                                                                   | 10.64                |        | 13.90                                                                                                                                                                                                 | 13.62                |        |  |
|                                                  |                             | Current input A        | 11.7                                                                                                                                                                                                                                                    | 11.8                 |        | 15.5                                                                                                                                                                                                  | 15.1                 |        |  |
|                                                  | Temp. range of cooling      | Indoor                 | W.B.                                                                                                                                                                                                                                                    | 59~75°F (15~24°C)    |        |                                                                                                                                                                                                       | 59~75°F (15~24°C)    |        |  |
|                                                  |                             | Outdoor                | D.B.                                                                                                                                                                                                                                                    | 23~115°F (-5~46°C)   |        |                                                                                                                                                                                                       | 23~115°F (-5~46°C)   |        |  |
| Heating capacity<br>(Nominal)                    | *2                          | BTU/h                  | 135,000                                                                                                                                                                                                                                                 |                      |        | 160,000                                                                                                                                                                                               |                      |        |  |
|                                                  |                             | *2 kW                  | 39.6                                                                                                                                                                                                                                                    |                      |        | 46.9                                                                                                                                                                                                  |                      |        |  |
|                                                  | (575)                       | Power input kW         | 10.84                                                                                                                                                                                                                                                   |                      |        | 12.86                                                                                                                                                                                                 |                      |        |  |
|                                                  |                             | Current input A        | 12.0                                                                                                                                                                                                                                                    |                      |        | 14.3                                                                                                                                                                                                  |                      |        |  |
|                                                  | (Rated)                     | BTU/h                  | 129,000                                                                                                                                                                                                                                                 |                      |        | 152,000                                                                                                                                                                                               |                      |        |  |
|                                                  |                             | kW                     | 37.8                                                                                                                                                                                                                                                    |                      |        | 44.5                                                                                                                                                                                                  |                      |        |  |
|                                                  | (575)                       | Power input kW         | 10.40                                                                                                                                                                                                                                                   | 10.25                |        | 12.03                                                                                                                                                                                                 | 11.98                |        |  |
|                                                  |                             | Current input A        | 11.6                                                                                                                                                                                                                                                    | 11.4                 |        | 13.4                                                                                                                                                                                                  | 13.3                 |        |  |
|                                                  | Temp. range of heating      | Indoor                 | D.B.                                                                                                                                                                                                                                                    | 59~81°F (15~27°C)    |        |                                                                                                                                                                                                       | 59~81°F (15~27°C)    |        |  |
|                                                  |                             | Outdoor                | W.B.                                                                                                                                                                                                                                                    | -4~60°F (-20~15.5°C) |        |                                                                                                                                                                                                       | -4~60°F (-20~15.5°C) |        |  |
| Indoor unit connectable                          | Total capacity              |                        | 50~150% of outdoor unit capacity                                                                                                                                                                                                                        |                      |        | 50~150% of outdoor unit capacity                                                                                                                                                                      |                      |        |  |
|                                                  | Model/Quantity              |                        | P04~P96/1~30                                                                                                                                                                                                                                            |                      |        | P04~P96/1~36                                                                                                                                                                                          |                      |        |  |
| Sound pressure level (measured in anechoic room) |                             | dB <A>                 | 83.0                                                                                                                                                                                                                                                    |                      |        | 83.5                                                                                                                                                                                                  |                      |        |  |
| Refrigerant piping diameter                      | High pressure               | in. (mm)               | 3/4 (19.05) Brazed                                                                                                                                                                                                                                      |                      |        | 7/8 (22.2) Brazed                                                                                                                                                                                     |                      |        |  |
|                                                  | Low pressure                | in. (mm)               | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                    |                      |        | 1-1/8 (28.58) Brazed                                                                                                                                                                                  |                      |        |  |
| Minimum Circuit Ampacity                         |                             | A                      | 21                                                                                                                                                                                                                                                      |                      |        | 23                                                                                                                                                                                                    |                      |        |  |
| Maximum Overcurrent Protection                   |                             | A                      | 30                                                                                                                                                                                                                                                      |                      |        | 35                                                                                                                                                                                                    |                      |        |  |
| FAN                                              | Type x Quantity             |                        | Propeller fan x 2                                                                                                                                                                                                                                       |                      |        | Propeller fan x 2                                                                                                                                                                                     |                      |        |  |
|                                                  | Airflow rate                | cfm                    | 11,300                                                                                                                                                                                                                                                  |                      |        | 11,300                                                                                                                                                                                                |                      |        |  |
|                                                  |                             | m³/min                 | 320                                                                                                                                                                                                                                                     |                      |        | 320                                                                                                                                                                                                   |                      |        |  |
|                                                  |                             | L/s                    | 5,330                                                                                                                                                                                                                                                   |                      |        | 5,330                                                                                                                                                                                                 |                      |        |  |
|                                                  | Control, Driving mechanism  |                        | Inverter-control, Brushless DC motor                                                                                                                                                                                                                    |                      |        | Inverter-control, Brushless DC motor                                                                                                                                                                  |                      |        |  |
|                                                  | Motor output                | kW                     | 0.92+0.92                                                                                                                                                                                                                                               |                      |        | 0.92+0.92                                                                                                                                                                                             |                      |        |  |
|                                                  | *3                          | External static press. | 0 in.WG (0 Pa)                                                                                                                                                                                                                                          |                      |        | 0 in.WG (0 Pa)                                                                                                                                                                                        |                      |        |  |
| Compressor                                       | Type x Quantity             |                        | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                 |                      |        | Inverter scroll hermetic compressor x 1                                                                                                                                                               |                      |        |  |
|                                                  | Starting method             |                        | Inverter                                                                                                                                                                                                                                                |                      |        | Inverter                                                                                                                                                                                              |                      |        |  |
|                                                  | Motor output                | kW                     | 8.2                                                                                                                                                                                                                                                     |                      |        | 9.5                                                                                                                                                                                                   |                      |        |  |
|                                                  | Case heater                 | kW                     | 0.045                                                                                                                                                                                                                                                   |                      |        | 0.045                                                                                                                                                                                                 |                      |        |  |
| External finish                                  |                             |                        | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1>                                                                                                                                                                    |                      |        | Pre-coated galvanized steel sheet (+powder coating for -BS type)<br><MUNSELL 5Y 8/1>                                                                                                                  |                      |        |  |
| External dimension H x W x D                     |                             | in.<br>mm              | 65 x 68-15/16 x 29-3/16<br>1,650 x 1,750 x 740                                                                                                                                                                                                          |                      |        | 65 x 68-15/16 x 29-3/16<br>1,650 x 1,750 x 740                                                                                                                                                        |                      |        |  |
| Protection devices                               | High pressure protection    |                        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                        |                      |        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                      |                      |        |  |
|                                                  | Inverter circuit (COMP/FAN) |                        | Over-heat protection, Over-current protection                                                                                                                                                                                                           |                      |        | Over-heat protection, Over-current protection                                                                                                                                                         |                      |        |  |
|                                                  | Fan motor                   |                        | -                                                                                                                                                                                                                                                       |                      |        | -                                                                                                                                                                                                     |                      |        |  |
| Refrigerant                                      | Type x original charge      |                        | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                                                                                                                                                         |                      |        | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                                                                                                       |                      |        |  |
| Net weight                                       |                             | lbs (kg)               | 770(349)                                                                                                                                                                                                                                                |                      |        | 770(349)                                                                                                                                                                                              |                      |        |  |
| Heat exchanger                                   |                             |                        | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                  |                      |        | Salt-resistant cross fin & copper tube                                                                                                                                                                |                      |        |  |
| Optional parts                                   |                             |                        | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1<br>BC controller: CMB-P104,106,108,1012,1016NU-J2<br>Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                      |        | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                      |        |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## R2-Series (575V)

### PURY-P ZSKMU-B(-BS)



## ► Specifications

| Outdoor Model                                    |                              |                 | PURY-P168ZSKMU-B (-BS)                                                                                                                                                                                                                       |                                         | PURY-P192ZSKMU-B (-BS)                                                                                                                                                                                                                       |                                         | PURY-P216ZSKMU-B (-BS)                                                                                                                                                                                                                        |                                         |
|--------------------------------------------------|------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Indoor Model                                     |                              |                 | Non-Ducted                                                                                                                                                                                                                                   |                                         | Ducted                                                                                                                                                                                                                                       |                                         | Non-Ducted                                                                                                                                                                                                                                    |                                         |
| Power source                                     |                              |                 | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                              |                                         | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                              |                                         | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                               |                                         |
| Cooling capacity (Nominal)                       | *1                           | BTU/h           | 168,000                                                                                                                                                                                                                                      |                                         | 192,000                                                                                                                                                                                                                                      |                                         | 216,000                                                                                                                                                                                                                                       |                                         |
|                                                  | *1                           | kW              | 49.2                                                                                                                                                                                                                                         |                                         | 56.3                                                                                                                                                                                                                                         |                                         | 63.3                                                                                                                                                                                                                                          |                                         |
| (575)                                            | Power input                  | kW              | 13.66                                                                                                                                                                                                                                        |                                         | 15.92                                                                                                                                                                                                                                        |                                         | 17.74                                                                                                                                                                                                                                         |                                         |
|                                                  |                              | A               | 15.2                                                                                                                                                                                                                                         |                                         | 17.7                                                                                                                                                                                                                                         |                                         | 19.7                                                                                                                                                                                                                                          |                                         |
|                                                  | Current input                | BTU/h           | 160,000                                                                                                                                                                                                                                      |                                         | 184,000                                                                                                                                                                                                                                      |                                         | 206,000                                                                                                                                                                                                                                       |                                         |
|                                                  |                              | kW              | 46.9                                                                                                                                                                                                                                         |                                         | 53.9                                                                                                                                                                                                                                         |                                         | 60.4                                                                                                                                                                                                                                          |                                         |
| (575)                                            | Power input                  | kW              | 14.46                                                                                                                                                                                                                                        | 14.42                                   | 17.15                                                                                                                                                                                                                                        | 17.11                                   | 19.99                                                                                                                                                                                                                                         | 19.56                                   |
|                                                  |                              | A               | 16.1                                                                                                                                                                                                                                         | 16.0                                    | 19.1                                                                                                                                                                                                                                         | 19.0                                    | 22.3                                                                                                                                                                                                                                          | 21.8                                    |
| Temp. range of cooling                           | Indoor                       | W.B.            | 59~75°F (15~24°C)                                                                                                                                                                                                                            |                                         | 59~75°F (15~24°C)                                                                                                                                                                                                                            |                                         | 59~75°F (15~24°C)                                                                                                                                                                                                                             |                                         |
|                                                  | Outdoor                      | D.B.            | 23~115°F (-5~46°C)                                                                                                                                                                                                                           |                                         | 23~115°F (-5~46°C)                                                                                                                                                                                                                           |                                         | 23~115°F (-5~46°C)                                                                                                                                                                                                                            |                                         |
| Heating capacity (Nominal)                       | *2                           | BTU/h           | 188,000                                                                                                                                                                                                                                      |                                         | 215,000                                                                                                                                                                                                                                      |                                         | 243,000                                                                                                                                                                                                                                       |                                         |
|                                                  | *2                           | kW              | 55.1                                                                                                                                                                                                                                         |                                         | 63.0                                                                                                                                                                                                                                         |                                         | 71.2                                                                                                                                                                                                                                          |                                         |
| (575)                                            | Power input                  | kW              | 15.42                                                                                                                                                                                                                                        |                                         | 17.79                                                                                                                                                                                                                                        |                                         | 20.61                                                                                                                                                                                                                                         |                                         |
|                                                  |                              | A               | 17.2                                                                                                                                                                                                                                         |                                         | 19.8                                                                                                                                                                                                                                         |                                         | 22.9                                                                                                                                                                                                                                          |                                         |
|                                                  | Current input                | BTU/h           | 179,000                                                                                                                                                                                                                                      |                                         | 205,000                                                                                                                                                                                                                                      |                                         | 232,000                                                                                                                                                                                                                                       |                                         |
|                                                  |                              | kW              | 52.5                                                                                                                                                                                                                                         |                                         | 60.1                                                                                                                                                                                                                                         |                                         | 68.0                                                                                                                                                                                                                                          |                                         |
| (575)                                            | Power input                  | kW              | 14.09                                                                                                                                                                                                                                        | 14.58                                   | 16.74                                                                                                                                                                                                                                        | 16.26                                   | 19.55                                                                                                                                                                                                                                         | 18.72                                   |
|                                                  |                              | A               | 15.7                                                                                                                                                                                                                                         | 16.2                                    | 18.6                                                                                                                                                                                                                                         | 18.1                                    | 21.8                                                                                                                                                                                                                                          | 20.8                                    |
| Temp. range of heating                           | Indoor                       | D.B.            | 59~81°F (15~27°C)                                                                                                                                                                                                                            |                                         | 59~81°F (15~27°C)                                                                                                                                                                                                                            |                                         | 59~81°F (15~27°C)                                                                                                                                                                                                                             |                                         |
|                                                  | Outdoor                      | W.B.            | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                         |                                         | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                         |                                         | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                          |                                         |
| Indoor unit connectable                          | Total capacity               |                 | 50~150% of outdoor unit capacity                                                                                                                                                                                                             |                                         | 50~150% of outdoor unit capacity                                                                                                                                                                                                             |                                         | 50~150% of outdoor unit capacity                                                                                                                                                                                                              |                                         |
|                                                  | Model/Quantity               |                 | P04~P96/1~42                                                                                                                                                                                                                                 |                                         | P04~P96/1~48                                                                                                                                                                                                                                 |                                         | P04~P96/2~50                                                                                                                                                                                                                                  |                                         |
| Sound pressure level (measured in anechoic room) |                              | dB <A>          | 84.5                                                                                                                                                                                                                                         |                                         | 84.5                                                                                                                                                                                                                                         |                                         | 85.5                                                                                                                                                                                                                                          |                                         |
| Refrigerant                                      | High pressure                | in. (mm)        | 7/8 (22.2) Brazed                                                                                                                                                                                                                            |                                         | 7/8 (22.2) Brazed                                                                                                                                                                                                                            |                                         | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                          |                                         |
| piping diameter                                  | Low pressure                 | in. (mm)        | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                         |                                         | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                         |                                         | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                          |                                         |
| Set Model                                        |                              |                 |                                                                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                               |                                         |
| Model                                            |                              |                 | PURY-P72ZKMU-B (-BS)                                                                                                                                                                                                                         | PURY-P96ZKMU-B (-BS)                    | PURY-P96ZKMU-B (-BS)                                                                                                                                                                                                                         | PURY-P96ZKMU-B (-BS)                    | PURY-P96ZKMU-B (-BS)                                                                                                                                                                                                                          | PURY-P120ZKMU-B (-BS)                   |
| Minimum Circuit Ampacity                         |                              | A               | 11                                                                                                                                                                                                                                           | 15                                      | 15                                                                                                                                                                                                                                           | 15                                      | 15                                                                                                                                                                                                                                            | 21                                      |
| Maximum Overcurrent Protection                   |                              | A               | 15                                                                                                                                                                                                                                           | 25                                      | 25                                                                                                                                                                                                                                           | 25                                      | 25                                                                                                                                                                                                                                            | 30                                      |
| FAN                                              | Type x Quantity              |                 | Propeller fan x 1                                                                                                                                                                                                                            | Propeller fan x 1                       | Propeller fan x 1                                                                                                                                                                                                                            | Propeller fan x 1                       | Propeller fan x 1                                                                                                                                                                                                                             | Propeller fan x 2                       |
|                                                  | Airflow rate                 | cfm             | 6,550                                                                                                                                                                                                                                        | 6,550                                   | 6,550                                                                                                                                                                                                                                        | 6,550                                   | 6,550                                                                                                                                                                                                                                         | 11,300                                  |
|                                                  |                              | m³/min          | 185                                                                                                                                                                                                                                          | 185                                     | 185                                                                                                                                                                                                                                          | 185                                     | 185                                                                                                                                                                                                                                           | 320                                     |
|                                                  |                              | L/s             | 3,080                                                                                                                                                                                                                                        | 3,080                                   | 3,080                                                                                                                                                                                                                                        | 3,080                                   | 3,080                                                                                                                                                                                                                                         | 5,330                                   |
|                                                  | Control, Driving mechanism   |                 | Inverter-control, Brushless DC motor                                                                                                                                                                                                         |                                         | Inverter-control, Brushless DC motor                                                                                                                                                                                                         |                                         | Inverter-control, Brushless DC motor                                                                                                                                                                                                          |                                         |
|                                                  | Motor output                 |                 | kW                                                                                                                                                                                                                                           | 0.92                                    | 0.92                                                                                                                                                                                                                                         | 0.92                                    | 0.92                                                                                                                                                                                                                                          | 0.92+0.92                               |
|                                                  | *3 External static press.    |                 | 0 in.WG (0 Pa)                                                                                                                                                                                                                               | 0 in.WG (0 Pa)                          | 0 in.WG (0 Pa)                                                                                                                                                                                                                               | 0 in.WG (0 Pa)                          | 0 in.WG (0 Pa)                                                                                                                                                                                                                                | 0 in.WG (0 Pa)                          |
|                                                  | Compressor                   | Type x Quantity |                                                                                                                                                                                                                                              | Inverter scroll hermetic compressor x 1 |                                                                                                                                                                                                                                              | Inverter scroll hermetic compressor x 1 |                                                                                                                                                                                                                                               | Inverter scroll hermetic compressor x 1 |
| Starting method                                  |                              | Inverter        | Inverter                                                                                                                                                                                                                                     | Inverter                                | Inverter                                                                                                                                                                                                                                     | Inverter                                | Inverter                                                                                                                                                                                                                                      |                                         |
| Motor output                                     |                              | kW              | 4.7                                                                                                                                                                                                                                          | 6.6                                     | 6.6                                                                                                                                                                                                                                          | 6.6                                     | 8.2                                                                                                                                                                                                                                           |                                         |
| Case heater                                      |                              | kW              | 0.035                                                                                                                                                                                                                                        | 0.035                                   | 0.035                                                                                                                                                                                                                                        | 0.035                                   | 0.045                                                                                                                                                                                                                                         |                                         |
| External finish                                  |                              |                 | Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>                                                                                                                                                            |                                         | Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>                                                                                                                                                            |                                         | Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>                                                                                                                                                             |                                         |
| External dimension H x W x D                     |                              | in.             | 65 x 36-1/4 x 29-3/16                                                                                                                                                                                                                        | 65 x 48-1/16 x 29-3/16                  | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                       | 65 x 48-1/16 x 29-3/16                  | 65 x 48-1/16 x 29-3/16                                                                                                                                                                                                                        | 65 x 68-15/16 x 29-3/16                 |
|                                                  |                              | mm              | 1,650 x 920 x 740                                                                                                                                                                                                                            | 1,650 x 1,220 x 740                     | 1,650 x 1,220 x 740                                                                                                                                                                                                                          | 1,650 x 1,220 x 740                     | 1,650 x 1,220 x 740                                                                                                                                                                                                                           | 1,650 x 1,750 x 740                     |
| Protection devices                               | High pressure protection     |                 | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                             |                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                             |                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                              |                                         |
|                                                  | Inverter circuit (COMP./FAN) |                 | Over-heat protection, Over-current protection                                                                                                                                                                                                |                                         | Over-heat protection, Over-current protection                                                                                                                                                                                                |                                         | Over-heat protection, Over-current protection                                                                                                                                                                                                 |                                         |
| Refrigerant                                      |                              |                 | Type x original charge                                                                                                                                                                                                                       |                                         | R410A x 21 lbs (9.5 kg)                                                                                                                                                                                                                      |                                         | R410A x 22 lbs + 12 oz (10.3 kg)                                                                                                                                                                                                              |                                         |
| Net weight                                       |                              |                 | lbs (kg)                                                                                                                                                                                                                                     |                                         | 508 (230)                                                                                                                                                                                                                                    |                                         | 567 (257)                                                                                                                                                                                                                                     |                                         |
| Heat exchanger                                   |                              |                 | Salt-resistant cross fin & copper tube                                                                                                                                                                                                       |                                         | Salt-resistant cross fin & copper tube                                                                                                                                                                                                       |                                         | Salt-resistant cross fin & copper tube                                                                                                                                                                                                        |                                         |
| Optional parts                                   |                              |                 | Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2 |                                         | Outdoor Twinning kit: CMY-R100CBK2 joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2 |                                         | Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2, CMY-R160-J1,CMY-R201,202,203,204, 306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2 |                                         |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                        | Outdoor                                     |
|---------|-----------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                       | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## R2-Series (575V)

### PURY-P ZSKMU-B(-BS)



#### ► Specifications

| Outdoor Model                                    |                              |                        | PURY-P240ZSKMU-B (-BS)                                                                                                                                                                                                                       |  |                                 |  | PURY-P264ZSKMU-B (-BS)                                                                                                                                                                                                                       |  |                                 |  |  |
|--------------------------------------------------|------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|--|
| Indoor Model                                     |                              |                        | Non-Ducted                                                                                                                                                                                                                                   |  | Ducted                          |  | Non-Ducted                                                                                                                                                                                                                                   |  | Ducted                          |  |  |
| Power source                                     |                              |                        | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                              |  |                                 |  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                              |  |                                 |  |  |
| Cooling capacity (Nominal)                       | *1                           | BTU/h                  | 240,000                                                                                                                                                                                                                                      |  |                                 |  | 264,000                                                                                                                                                                                                                                      |  |                                 |  |  |
|                                                  | *1                           | kW                     | 70.3                                                                                                                                                                                                                                         |  |                                 |  | 77.4                                                                                                                                                                                                                                         |  |                                 |  |  |
| (575)                                            | Power input                  | kW                     | 19.62                                                                                                                                                                                                                                        |  |                                 |  | 22.69                                                                                                                                                                                                                                        |  |                                 |  |  |
|                                                  | Current input                | A                      | 21.8                                                                                                                                                                                                                                         |  |                                 |  | 25.3                                                                                                                                                                                                                                         |  |                                 |  |  |
| (Rated)                                          |                              | BTU/h                  | 230,000                                                                                                                                                                                                                                      |  |                                 |  | 252,000                                                                                                                                                                                                                                      |  |                                 |  |  |
|                                                  |                              | kW                     | 67.4                                                                                                                                                                                                                                         |  |                                 |  | 73.9                                                                                                                                                                                                                                         |  |                                 |  |  |
| (575)                                            | Power input                  | kW                     | 23.28                                                                                                                                                                                                                                        |  | 22.32                           |  | 26.33                                                                                                                                                                                                                                        |  | 25.26                           |  |  |
|                                                  | Current input                | A                      | 25.9                                                                                                                                                                                                                                         |  | 24.9                            |  | 29.3                                                                                                                                                                                                                                         |  | 28.1                            |  |  |
| Temp. range of cooling                           | Indoor                       | W.B.                   | 59~75°F (15~24°C)                                                                                                                                                                                                                            |  |                                 |  | 59~75°F (15~24°C)                                                                                                                                                                                                                            |  |                                 |  |  |
|                                                  | Outdoor                      | D.B.                   | 23~115°F (-5~46°C)                                                                                                                                                                                                                           |  |                                 |  | 23~115°F (-5~46°C)                                                                                                                                                                                                                           |  |                                 |  |  |
| Heating capacity (Nominal)                       | *2                           | BTU/h                  | 270,000                                                                                                                                                                                                                                      |  |                                 |  | 295,000                                                                                                                                                                                                                                      |  |                                 |  |  |
|                                                  | *2                           | kW                     | 79.1                                                                                                                                                                                                                                         |  |                                 |  | 86.5                                                                                                                                                                                                                                         |  |                                 |  |  |
| (575)                                            | Power input                  | kW                     | 23.55                                                                                                                                                                                                                                        |  |                                 |  | 25.94                                                                                                                                                                                                                                        |  |                                 |  |  |
|                                                  | Current input                | A                      | 26.2                                                                                                                                                                                                                                         |  |                                 |  | 28.9                                                                                                                                                                                                                                         |  |                                 |  |  |
| (Rated)                                          |                              | BTU/h                  | 258,000                                                                                                                                                                                                                                      |  |                                 |  | 281,000                                                                                                                                                                                                                                      |  |                                 |  |  |
|                                                  |                              | kW                     | 75.6                                                                                                                                                                                                                                         |  |                                 |  | 82.4                                                                                                                                                                                                                                         |  |                                 |  |  |
| (575)                                            | Power input                  | kW                     | 22.14                                                                                                                                                                                                                                        |  | 21.63                           |  | 24.62                                                                                                                                                                                                                                        |  | 23.65                           |  |  |
|                                                  | Current input                | A                      | 24.7                                                                                                                                                                                                                                         |  | 24.1                            |  | 27.4                                                                                                                                                                                                                                         |  | 26.3                            |  |  |
| Temp. range of heating                           | Indoor                       | D.B.                   | 59~81°F (15~27°C)                                                                                                                                                                                                                            |  |                                 |  | 59~81°F (15~27°C)                                                                                                                                                                                                                            |  |                                 |  |  |
|                                                  | Outdoor                      | W.B.                   | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                         |  |                                 |  | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                         |  |                                 |  |  |
| Indoor unit connectable                          | Total capacity               |                        | 50~150% of outdoor unit capacity                                                                                                                                                                                                             |  |                                 |  | 50~150% of outdoor unit capacity                                                                                                                                                                                                             |  |                                 |  |  |
|                                                  | Model/Quantity               |                        | P04~P96/2~50                                                                                                                                                                                                                                 |  |                                 |  | P04~P96/2~50                                                                                                                                                                                                                                 |  |                                 |  |  |
| Sound pressure level (measured in anechoic room) |                              | dB <A>                 | 86.0                                                                                                                                                                                                                                         |  |                                 |  | 86.5                                                                                                                                                                                                                                         |  |                                 |  |  |
| Refrigerant piping diameter                      | High pressure                | in. (mm)               | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                         |  |                                 |  | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                         |  |                                 |  |  |
|                                                  | Low pressure                 | in. (mm)               | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                         |  |                                 |  | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                         |  |                                 |  |  |
| Set Model                                        |                              |                        |                                                                                                                                                                                                                                              |  |                                 |  |                                                                                                                                                                                                                                              |  |                                 |  |  |
| Model                                            |                              |                        | PURY-P120ZKMU-B (-BS)                                                                                                                                                                                                                        |  | PURY-P120ZKMU-B (-BS)           |  | PURY-P120ZKMU-B (-BS)                                                                                                                                                                                                                        |  | PURY-P144ZKMU-B (-BS)           |  |  |
| Minimum Circuit Ampacity                         |                              | A                      | 21                                                                                                                                                                                                                                           |  | 21                              |  | 21                                                                                                                                                                                                                                           |  | 23                              |  |  |
| Maximum Overcurrent Protection                   |                              | A                      | 30                                                                                                                                                                                                                                           |  | 30                              |  | 30                                                                                                                                                                                                                                           |  | 35                              |  |  |
| FAN                                              | Type x Quantity              |                        | Propeller fan x 2                                                                                                                                                                                                                            |  | Propeller fan x 2               |  | Propeller fan x 2                                                                                                                                                                                                                            |  | Propeller fan x 2               |  |  |
|                                                  | Airflow rate                 | cfm                    | 11,300                                                                                                                                                                                                                                       |  | 11,300                          |  | 11,300                                                                                                                                                                                                                                       |  | 11,300                          |  |  |
|                                                  |                              | m³/min                 | 320                                                                                                                                                                                                                                          |  | 320                             |  | 320                                                                                                                                                                                                                                          |  | 320                             |  |  |
|                                                  |                              | L/s                    | 5,330                                                                                                                                                                                                                                        |  | 5,330                           |  | 5,330                                                                                                                                                                                                                                        |  | 5,330                           |  |  |
|                                                  | Control, Driving mechanism   |                        | Inverter-control, Brushless DC motor                                                                                                                                                                                                         |  |                                 |  | Inverter-control, Brushless DC motor                                                                                                                                                                                                         |  |                                 |  |  |
|                                                  | Motor output                 | kW                     | 0.92+0.92                                                                                                                                                                                                                                    |  | 0.92+0.92                       |  | 0.92+0.92                                                                                                                                                                                                                                    |  | 0.92+0.92                       |  |  |
|                                                  | External static press.       |                        | 0 in.WG (0 Pa)                                                                                                                                                                                                                               |  | 0 in.WG (0 Pa)                  |  | 0 in.WG (0 Pa)                                                                                                                                                                                                                               |  | 0 in.WG (0 Pa)                  |  |  |
|                                                  | Type x Quantity              |                        | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                      |  |                                 |  | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                      |  |                                 |  |  |
| Compressor                                       | Starting method              |                        | Inverter                                                                                                                                                                                                                                     |  | Inverter                        |  | Inverter                                                                                                                                                                                                                                     |  | Inverter                        |  |  |
|                                                  | Motor output                 | kW                     | 8.2                                                                                                                                                                                                                                          |  | 8.2                             |  | 8.2                                                                                                                                                                                                                                          |  | 9.5                             |  |  |
|                                                  | Case heater                  | kW                     | 0.045                                                                                                                                                                                                                                        |  | 0.045                           |  | 0.045                                                                                                                                                                                                                                        |  | 0.045                           |  |  |
|                                                  | External finish              |                        | Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>                                                                                                                                                            |  |                                 |  | Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>                                                                                                                                                            |  |                                 |  |  |
| External dimension H x W x D                     |                              | in.                    | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                                      |  | 65 x 68-15/16 x 29-3/16         |  | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                                      |  | 65 x 68-15/16 x 29-3/16         |  |  |
|                                                  |                              | mm                     | 1,650 x 1,750 x 740                                                                                                                                                                                                                          |  | 1,650 x 1,750 x 740             |  | 1,650 x 1,750 x 740                                                                                                                                                                                                                          |  | 1,650 x 1,750 x 740             |  |  |
| Protection devices                               | High pressure protection     |                        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                             |  |                                 |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                             |  |                                 |  |  |
|                                                  | Inverter circuit (COMP./FAN) |                        | Over-heat protection, Over-current protection                                                                                                                                                                                                |  |                                 |  | Over-heat protection, Over-current protection                                                                                                                                                                                                |  |                                 |  |  |
|                                                  | Fan motor                    |                        | -                                                                                                                                                                                                                                            |  |                                 |  | -                                                                                                                                                                                                                                            |  |                                 |  |  |
|                                                  | Refrigerant                  | Type x original charge | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                                                                                                                                              |  | R410A x 26 lbs + 1 oz (11.8 kg) |  | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                                                                                                                                              |  | R410A x 26 lbs + 1 oz (11.8 kg) |  |  |
| Net weight                                       |                              | lbs (kg)               | 770(349)                                                                                                                                                                                                                                     |  | 770(349)                        |  | 770(349)                                                                                                                                                                                                                                     |  | 770(349)                        |  |  |
| Heat exchanger                                   |                              |                        | Salt-resistant cross fin & copper tube                                                                                                                                                                                                       |  |                                 |  | Salt-resistant cross fin & copper tube                                                                                                                                                                                                       |  |                                 |  |  |
| Optional parts                                   |                              |                        | Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2 |  |                                 |  | Outdoor Twinning kit: CMY-R100XLCBK joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G,CMY-R302,303,304,305S-G1 Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2 |  |                                 |  |  |

#### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# OUTDOOR UNIT

## R2-Series (575V)

### PURY-P ZSKMU-B(-BS)



#### ► Specifications

| Outdoor Model                                    |                              |                                  | PURY-P288ZSKMU-B (-BS)                                                                                                                                                                                                                                  |                   |
|--------------------------------------------------|------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Indoor Model                                     |                              |                                  | Non-Ducted                                                                                                                                                                                                                                              | Ducted            |
| Power source                                     |                              |                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                         |                   |
| Cooling capacity (Nominal)                       | *1                           | BTU/h                            | 288,000                                                                                                                                                                                                                                                 |                   |
|                                                  | *1                           | kW                               | 84.4                                                                                                                                                                                                                                                    |                   |
| (575)                                            | Power input                  | kW                               | 25.23                                                                                                                                                                                                                                                   |                   |
|                                                  | Current input                | A                                | 28.1                                                                                                                                                                                                                                                    |                   |
| (Rated)                                          |                              | BTU/h                            | 276,000                                                                                                                                                                                                                                                 |                   |
|                                                  |                              | kW                               | 80.9                                                                                                                                                                                                                                                    |                   |
| (575)                                            | Power input                  | kW                               | 30.15                                                                                                                                                                                                                                                   | 28.59             |
|                                                  | Current input                | A                                | 33.6                                                                                                                                                                                                                                                    | 31.8              |
| Temp. range of cooling                           | Indoor                       | W.B.                             | 59~75°F (15~24°C)                                                                                                                                                                                                                                       |                   |
|                                                  | Outdoor                      | D.B.                             | 23~115°F (-5~46°C)                                                                                                                                                                                                                                      |                   |
| Heating capacity (Nominal)                       | *2                           | BTU/h                            | 323,000                                                                                                                                                                                                                                                 |                   |
|                                                  | *2                           | kW                               | 94.7                                                                                                                                                                                                                                                    |                   |
| (575)                                            | Power input                  | kW                               | 28.13                                                                                                                                                                                                                                                   |                   |
|                                                  | Current input                | A                                | 31.3                                                                                                                                                                                                                                                    |                   |
| (Rated)                                          |                              | BTU/h                            | 304,000                                                                                                                                                                                                                                                 |                   |
|                                                  |                              | kW                               | 89.1                                                                                                                                                                                                                                                    |                   |
| (575)                                            | Power input                  | kW                               | 26.85                                                                                                                                                                                                                                                   | 25.60             |
|                                                  | Current input                | A                                | 29.9                                                                                                                                                                                                                                                    | 28.5              |
| Temp. range of heating                           | Indoor                       | D.B.                             | 59~81°F (15~27°C)                                                                                                                                                                                                                                       |                   |
|                                                  | Outdoor                      | W.B.                             | -4~60°F (-20~15.5°C)                                                                                                                                                                                                                                    |                   |
| Indoor unit connectable                          | Total capacity               | 50~150% of outdoor unit capacity |                                                                                                                                                                                                                                                         |                   |
|                                                  | Model/Quantity               | P04~P96/2~50                     |                                                                                                                                                                                                                                                         |                   |
| Sound pressure level (measured in anechoic room) |                              | dB <A>                           | 86.5                                                                                                                                                                                                                                                    |                   |
| Refrigerant piping diameter                      | High pressure                | in. (mm)                         | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                    |                   |
|                                                  | Low pressure                 | in. (mm)                         | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                                    |                   |
| Set Model                                        |                              |                                  |                                                                                                                                                                                                                                                         |                   |
| Model                                            |                              |                                  | PURY-P144ZKMU-B (-BS)                                                                                                                                                                                                                                   |                   |
| Minimum Circuit Ampacity                         |                              | A                                | 23                                                                                                                                                                                                                                                      | 23                |
| Maximum Overcurrent Protection                   |                              | A                                | 35                                                                                                                                                                                                                                                      | 35                |
| FAN                                              | Type x Quantity              |                                  | Propeller fan x 2                                                                                                                                                                                                                                       | Propeller fan x 2 |
|                                                  | Airflow rate                 | cfm                              | 11,300                                                                                                                                                                                                                                                  | 11,300            |
|                                                  |                              | m³/min                           | 320                                                                                                                                                                                                                                                     | 320               |
|                                                  |                              | L/s                              | 5,330                                                                                                                                                                                                                                                   | 5,330             |
|                                                  | Control, Driving mechanism   |                                  | Inverter-control, Brushless DC motor                                                                                                                                                                                                                    |                   |
|                                                  | Motor output                 | kW                               | 0.92+0.92                                                                                                                                                                                                                                               | 0.92+0.92         |
| *3                                               | External static press.       | 0 in.WG (0 Pa)                   | 0 in.WG (0 Pa)                                                                                                                                                                                                                                          |                   |
| Compressor                                       | Type x Quantity              |                                  | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                 |                   |
|                                                  | Starting method              |                                  | Inverter                                                                                                                                                                                                                                                | Inverter          |
|                                                  | Motor output                 | kW                               | 9.5                                                                                                                                                                                                                                                     | 9.5               |
|                                                  | Case heater                  | kW                               | 0.045                                                                                                                                                                                                                                                   | 0.045             |
| External finish                                  |                              |                                  | Pre-coated galvanized steel sheet<br>(+powder coating for -BS type)<br><MUNSELL 5Y 8/1>                                                                                                                                                                 |                   |
| External dimension H x W x D                     | in.                          | 65 x 68-15/16 x 29-3/16          | 65 x 68-15/16 x 29-3/16                                                                                                                                                                                                                                 |                   |
|                                                  | mm                           | 1,650 x 1,750 x 740              | 1,650 x 1,750 x 740                                                                                                                                                                                                                                     |                   |
| Protection devices                               | High pressure protection     |                                  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                        |                   |
|                                                  | Inverter circuit (COMP./FAN) |                                  | Over-heat protection, Over-current protection                                                                                                                                                                                                           |                   |
|                                                  | Fan motor                    |                                  | -                                                                                                                                                                                                                                                       |                   |
| Refrigerant                                      | Type x original charge       | R410A x 26 lbs + 1 oz (11.8 kg)  | R410A x 26 lbs + 1 oz (11.8 kg)                                                                                                                                                                                                                         |                   |
| Net weight                                       | lbs (kg)                     | 770(349)                         | 770(349)                                                                                                                                                                                                                                                |                   |
| Heat exchanger                                   |                              |                                  | Salt-resistant cross fin & copper tube                                                                                                                                                                                                                  |                   |
| Optional parts                                   |                              |                                  | Outdoor Twinning kit: CMY-R100XLCBK<br>joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                   |

#### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                           | Outdoor                                     |
|---------|--------------------------------------------------|---------------------------------------------|
| Cooling | 80°F D.B./67°F W.B.<br>(26.7°C D.B./19.4°C W.B.) | 95°F D.B. (35°C D.B.)                       |
| Heating | 70°F D.B. (21.1°C D.B.)                          | 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) |

\*3 External static pressure option is available (0.12 in.WG, 0.24 in.WG / 30Pa, 60Pa).

\* Due to continuing improvement, above specification may be subject to change without notice.

\* The data presented is based on a specific combination.

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZLMU-B



## ► Specifications

| Heat Source Model                                |                          |                        | PQHY-P72ZLMU-B                                                        |                    | PQHY-P96ZLMU-B                                                        |                    | PQHY-P120ZLMU-B                                                                        |                    |                                 |  |
|--------------------------------------------------|--------------------------|------------------------|-----------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------|--------------------|---------------------------------|--|
| Indoor Model                                     |                          |                        | Non-Ducted                                                            |                    | Ducted                                                                |                    | Non-Ducted                                                                             |                    | Ducted                          |  |
| Power source                                     |                          |                        | 3-phase 3-wire 575 V ±10% 60 Hz                                       |                    | 3-phase 3-wire 575 V ±10% 60 Hz                                       |                    | 3-phase 3-wire 575 V ±10% 60 Hz                                                        |                    | 3-phase 3-wire 575 V ±10% 60 Hz |  |
| Cooling capacity<br>(Nominal)                    | *1                       | BTU/h                  | 72,000                                                                |                    | 96,000                                                                |                    | 120,000                                                                                |                    |                                 |  |
|                                                  |                          | kW                     | 21.1                                                                  |                    | 28.1                                                                  |                    | 35.2                                                                                   |                    |                                 |  |
|                                                  | (575)                    | Power input            | 3.61                                                                  |                    | 5.21                                                                  |                    | 7.51                                                                                   |                    |                                 |  |
|                                                  |                          | Current input          | 4.0                                                                   |                    | 5.8                                                                   |                    | 8.3                                                                                    |                    |                                 |  |
|                                                  | (Rated)                  | BTU/h                  | 69,000                                                                |                    | 92,000                                                                |                    | 115,000                                                                                |                    |                                 |  |
|                                                  |                          | kW                     | 20.2                                                                  |                    | 27.0                                                                  |                    | 33.7                                                                                   |                    |                                 |  |
|                                                  | (575)                    | Power input            | 3.60                                                                  | 3.59               | 5.22                                                                  | 5.45               | 7.38                                                                                   | 7.77               |                                 |  |
|                                                  |                          | Current input          | 4.0                                                                   | 4.0                | 5.8                                                                   | 6.0                | 8.2                                                                                    | 8.6                |                                 |  |
|                                                  | Temp. range of cooling   | Indoor                 | W.B.                                                                  | 59~75°F (15~24°C)  |                                                                       | 59~75°F (15~24°C)  |                                                                                        | 59~75°F (15~24°C)  |                                 |  |
|                                                  |                          | Inlet water            | °F                                                                    | 50~113°F (10~45°C) |                                                                       | 50~113°F (10~45°C) |                                                                                        | 50~113°F (10~45°C) |                                 |  |
| Heating capacity<br>(Nominal)                    | *2                       | BTU/h                  | 80,000                                                                |                    | 108,000                                                               |                    | 135,000                                                                                |                    |                                 |  |
|                                                  |                          | kW                     | 23.4                                                                  |                    | 31.7                                                                  |                    | 39.6                                                                                   |                    |                                 |  |
|                                                  | (575)                    | Power input            | 4.04                                                                  |                    | 5.64                                                                  |                    | 7.09                                                                                   |                    |                                 |  |
|                                                  |                          | Current input          | 4.5                                                                   |                    | 6.2                                                                   |                    | 7.9                                                                                    |                    |                                 |  |
|                                                  | (Rated)                  | BTU/h                  | 76,000                                                                |                    | 103,000                                                               |                    | 129,000                                                                                |                    |                                 |  |
|                                                  |                          | kW                     | 22.3                                                                  |                    | 30.2                                                                  |                    | 37.8                                                                                   |                    |                                 |  |
|                                                  | (575)                    | Power input            | 3.78                                                                  | 3.36               | 4.49                                                                  | 4.48               | 5.78                                                                                   | 5.89               |                                 |  |
|                                                  |                          | Current input          | 4.2                                                                   | 3.7                | 5.0                                                                   | 4.9                | 6.4                                                                                    | 6.5                |                                 |  |
|                                                  | Temp. range of heating   | Indoor                 | D.B.                                                                  | 59~81°F (15~27°C)  |                                                                       | 59~81°F (15~27°C)  |                                                                                        | 59~81°F (15~27°C)  |                                 |  |
|                                                  |                          | Inlet water            | °F                                                                    | 50~113°F (10~45°C) |                                                                       | 50~113°F (10~45°C) |                                                                                        | 50~113°F (10~45°C) |                                 |  |
| Indoor unit connectable                          | Total capacity           |                        | 50~130% of heatsource unit capacity                                   |                    | 50~130% of heatsource unit capacity                                   |                    | 50~130% of heatsource unit capacity                                                    |                    |                                 |  |
|                                                  | Model/Quantity           |                        | P04~P72/1~18                                                          |                    | P04~P96/1~24                                                          |                    | P04~P96/1~30                                                                           |                    |                                 |  |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                 | 60.5                                                                  |                    | 65.0                                                                  |                    | 71.0                                                                                   |                    |                                 |  |
| Refrigerant piping diameter                      | Liquid pipe              | in. (mm)               | 3/8 (9.52) Braze                                                      |                    | 3/8 (9.52) Braze (1/2 (12.7) Braze, total length >= 90 m)             |                    | 3/8 (9.52) Braze (1/2 (12.7) Braze, total length >= 40 m)                              |                    |                                 |  |
|                                                  | Gas pipe                 | in. (mm)               | 3/4 (19.05) Braze                                                     |                    | 7/8 (22.2) Braze                                                      |                    | 7/8 (22.2) Braze                                                                       |                    |                                 |  |
| Minimum Circuit Ampacity                         |                          | A                      | 6                                                                     |                    | 9                                                                     |                    | 13                                                                                     |                    |                                 |  |
| Maximum Overcurrent Protection                   |                          | A                      | 15                                                                    |                    | 15                                                                    |                    | 20                                                                                     |                    |                                 |  |
| Inlet water                                      | Water flow rate          | G/h                    | 1,440                                                                 |                    | 1,522                                                                 |                    | 1,522                                                                                  |                    |                                 |  |
|                                                  |                          | G/min                  | 24                                                                    |                    | 25.4                                                                  |                    | 25.4                                                                                   |                    |                                 |  |
|                                                  |                          | m³/h                   | 5.45                                                                  |                    | 5.76                                                                  |                    | 5.76                                                                                   |                    |                                 |  |
|                                                  |                          | L/min                  | 91                                                                    |                    | 96                                                                    |                    | 96                                                                                     |                    |                                 |  |
|                                                  |                          | cfm                    | 3.2                                                                   |                    | 3.4                                                                   |                    | 3.4                                                                                    |                    |                                 |  |
|                                                  | Pressure drop            | psi                    | 3.48                                                                  |                    | 3.48                                                                  |                    | 3.48                                                                                   |                    |                                 |  |
|                                                  |                          | kPa                    | 24                                                                    |                    | 24                                                                    |                    | 24                                                                                     |                    |                                 |  |
|                                                  |                          | Operating volume range | G/h                                                                   | 793 ~ 1,902        |                                                                       | 793 ~ 1,902        |                                                                                        | 793 ~ 1,902        |                                 |  |
|                                                  | G/min                    |                        | 13.2 ~ 31.7                                                           |                    | 13.2 ~ 31.7                                                           |                    | 13.2 ~ 31.7                                                                            |                    |                                 |  |
|                                                  |                          | m³/h                   | 3.0 ~ 7.2                                                             |                    | 3.0 ~ 7.2                                                             |                    | 3.0 ~ 7.2                                                                              |                    |                                 |  |
| Compressor                                       | Type x Quantity          |                        | Inverter scroll hermetic compressor x 1                               |                    | Inverter scroll hermetic compressor x 1                               |                    | Inverter scroll hermetic compressor x 1                                                |                    |                                 |  |
|                                                  | Starting method          |                        | Inverter                                                              |                    | Inverter                                                              |                    | Inverter                                                                               |                    |                                 |  |
|                                                  | Motor output             | kW                     | 4.3                                                                   |                    | 6.0                                                                   |                    | 7.7                                                                                    |                    |                                 |  |
|                                                  | Case heater              | kW                     | 0.035                                                                 |                    | 0.035                                                                 |                    | 0.035                                                                                  |                    |                                 |  |
| External finish                                  |                          |                        | Galvanized steel sheets                                               |                    | Galvanized steel sheets                                               |                    | Galvanized steel sheets                                                                |                    |                                 |  |
| External dimension H x W x D                     |                          | in.                    | 43-5/16 x 34-11/16 x 21-11/16                                         |                    | 43-5/16 x 34-11/16 x 21-11/16                                         |                    | 43-5/16 x 34-11/16 x 21-11/16                                                          |                    |                                 |  |
|                                                  |                          | mm                     | 1,100 x 880 x 550                                                     |                    | 1,100 x 880 x 550                                                     |                    | 1,100 x 880 x 550                                                                      |                    |                                 |  |
| Protection devices                               | High pressure protection |                        | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)      |                    | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)      |                    | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                       |                    |                                 |  |
|                                                  | Inverter circuit         |                        | Over-heat protection, Over-current protection                         |                    | Over-heat protection, Over-current protection                         |                    | Over-heat protection, Over-current protection                                          |                    |                                 |  |
|                                                  | Compressor               |                        | Over-heat protection                                                  |                    | Over-heat protection                                                  |                    | Over-heat protection                                                                   |                    |                                 |  |
| Refrigerant                                      | Type x original charge   |                        | R410A x 11 lbs + 1 oz (5.0 kg)                                        |                    | R410A x 11 lbs + 1 oz (5.0 kg)                                        |                    | R410A x 11 lbs + 1 oz (5.0 kg)                                                         |                    |                                 |  |
| Net weight                                       |                          | lbs (kg)               | 400 (181)                                                             |                    | 400 (181)                                                             |                    | 400 (181)                                                                              |                    |                                 |  |
| Heat exchanger                                   |                          |                        | plate type                                                            |                    | plate type                                                            |                    | plate type                                                                             |                    |                                 |  |
|                                                  | Water volume in plate    | G                      | 1.22                                                                  |                    | 1.22                                                                  |                    | 1.22                                                                                   |                    |                                 |  |
|                                                  |                          | l                      | 4.6                                                                   |                    | 4.6                                                                   |                    | 4.6                                                                                    |                    |                                 |  |
|                                                  | Water pressure Max.      | psi                    | 290                                                                   |                    | 290                                                                   |                    | 290                                                                                    |                    |                                 |  |
|                                                  |                          | MPa                    | 2.0                                                                   |                    | 2.0                                                                   |                    | 2.0                                                                                    |                    |                                 |  |
| Optional parts                                   |                          |                        | joint: CMY-Y102SS-G2, CMY-Y102LS-G2<br>Header: CMY-Y104, 108, 1010C-G |                    | joint: CMY-Y102SS-G2, CMY-Y102LS-G2<br>Header: CMY-Y104, 108, 1010C-G |                    | joint: CMY-Y102SS-G2, CMY-Y102LS-G2,<br>CMY-Y202S-G2<br>Header: CMY-Y104, 108, 1010C-G |                    |                                 |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZLMU-B



## ► Specifications

| Heat Source Model                                |                          |                                                                  | PQHY-P144ZLMU-B                                                                     |                                                                  | PQHY-P168ZLMU-B                                                                     |                                                                  | PQHY-P192ZLMU-B                                                                                   |               |                                 |  |
|--------------------------------------------------|--------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------------------------|--|
| Indoor Model                                     |                          |                                                                  | Non-Ducted                                                                          |                                                                  | Ducted                                                                              |                                                                  | Non-Ducted                                                                                        |               | Ducted                          |  |
| Power source                                     |                          |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                     |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                     |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                   |               | 3-phase 3-wire 575 V ±10% 60 Hz |  |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                                                            | 144,000                                                                             |                                                                  | 168,000                                                                             |                                                                  | 192,000                                                                                           |               |                                 |  |
|                                                  |                          | kW                                                               | 42.2                                                                                |                                                                  | 49.2                                                                                |                                                                  | 56.3                                                                                              |               |                                 |  |
| (575)                                            | Power input              | kW                                                               | 8.78                                                                                |                                                                  | 12.05                                                                               |                                                                  | 15.05                                                                                             |               |                                 |  |
|                                                  | Current input            | A                                                                | 9.7                                                                                 |                                                                  | 13.4                                                                                |                                                                  | 16.7                                                                                              |               |                                 |  |
| (Rated)                                          |                          | BTU/h                                                            | 138,000                                                                             |                                                                  | 160,000                                                                             |                                                                  | 184,000                                                                                           |               |                                 |  |
|                                                  |                          | kW                                                               | 40.4                                                                                |                                                                  | 46.9                                                                                |                                                                  | 53.9                                                                                              |               |                                 |  |
| (575)                                            | Power input              | kW                                                               | 9.44                                                                                | 10.12                                                            | 11.98                                                                               | 12.47                                                            | 15.17                                                                                             | 15.00         |                                 |  |
|                                                  | Current input            | A                                                                | 10.5                                                                                | 11.2                                                             | 13.3                                                                                | 13.9                                                             | 16.9                                                                                              | 16.7          |                                 |  |
| Temp. range of cooling                           | Indoor                   | W.B.                                                             | 59~75°F (15~24°C)                                                                   |                                                                  | 59~75°F (15~24°C)                                                                   |                                                                  | 59~75°F (15~24°C)                                                                                 |               |                                 |  |
|                                                  | Inlet water              | °F                                                               | 50~113°F (10~45°C)                                                                  |                                                                  | 50~113°F (10~45°C)                                                                  |                                                                  | 50~113°F (10~45°C)                                                                                |               |                                 |  |
| Heating capacity (Nominal)                       | *2                       | BTU/h                                                            | 160,000                                                                             |                                                                  | 188,000                                                                             |                                                                  | 215,000                                                                                           |               |                                 |  |
|                                                  |                          | kW                                                               | 46.9                                                                                |                                                                  | 55.1                                                                                |                                                                  | 63.0                                                                                              |               |                                 |  |
| (575)                                            | Power input              | kW                                                               | 8.11                                                                                |                                                                  | 9.86                                                                                |                                                                  | 11.90                                                                                             |               |                                 |  |
|                                                  | Current input            | A                                                                | 9.0                                                                                 |                                                                  | 11.0                                                                                |                                                                  | 13.2                                                                                              |               |                                 |  |
| (Rated)                                          |                          | BTU/h                                                            | 152,000                                                                             |                                                                  | 178,000                                                                             |                                                                  | 204,000                                                                                           |               |                                 |  |
|                                                  |                          | kW                                                               | 44.5                                                                                |                                                                  | 52.2                                                                                |                                                                  | 59.8                                                                                              |               |                                 |  |
| (575)                                            | Power input              | kW                                                               | 7.29                                                                                | 7.92                                                             | 8.86                                                                                | 9.66                                                             | 10.78                                                                                             | 11.53         |                                 |  |
|                                                  | Current input            | A                                                                | 8.1                                                                                 | 8.8                                                              | 9.8                                                                                 | 10.7                                                             | 12.0                                                                                              | 12.8          |                                 |  |
| Temp. range of heating                           | Indoor                   | D.B.                                                             | 59~81°F (15~27°C)                                                                   |                                                                  | 59~81°F (15~27°C)                                                                   |                                                                  | 59~81°F (15~27°C)                                                                                 |               |                                 |  |
|                                                  | Inlet water              | °F                                                               | 50~113°F (10~45°C)                                                                  |                                                                  | 50~113°F (10~45°C)                                                                  |                                                                  | 50~113°F (10~45°C)                                                                                |               |                                 |  |
| Indoor unit connectable                          | Total capacity           | 50~130% of heatsource unit capacity                              |                                                                                     | 50~130% of heatsource unit capacity                              |                                                                                     | 50~130% of heatsource unit capacity                              |                                                                                                   |               |                                 |  |
|                                                  | Model/Quantity           | P04~P96/1~36                                                     |                                                                                     | P04~P96/1~42                                                     |                                                                                     | P04~P96/1~48                                                     |                                                                                                   |               |                                 |  |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                                                           | 68.0                                                                                |                                                                  | 70.0                                                                                |                                                                  | 72.0                                                                                              |               |                                 |  |
| Refrigerant piping diameter                      | Liquid pipe              | in. (mm)                                                         | 1/2 (12.7) Brazed                                                                   |                                                                  | 5/8 (15.88) Brazed                                                                  |                                                                  | 5/8 (15.88) Brazed                                                                                |               |                                 |  |
|                                                  | Gas pipe                 | in. (mm)                                                         | 1-1/8 (28.58) Brazed                                                                |                                                                  | 1-1/8 (28.58) Brazed                                                                |                                                                  | 1-1/8 (28.58) Brazed                                                                              |               |                                 |  |
| Minimum Circuit Ampacity                         |                          | A                                                                | 15                                                                                  |                                                                  | 21                                                                                  |                                                                  | 26                                                                                                |               |                                 |  |
| Maximum Overcurrent Protection                   |                          | A                                                                | 25                                                                                  |                                                                  | 35                                                                                  |                                                                  | 45                                                                                                |               |                                 |  |
| Inlet water                                      | Water flow rate          | G/h                                                              | 1,902                                                                               |                                                                  | 1,902                                                                               |                                                                  | 1,902                                                                                             |               |                                 |  |
|                                                  |                          | G/min                                                            | 31.7                                                                                |                                                                  | 31.7                                                                                |                                                                  | 31.7                                                                                              |               |                                 |  |
|                                                  |                          | m³/h                                                             | 7.20                                                                                |                                                                  | 7.20                                                                                |                                                                  | 7.20                                                                                              |               |                                 |  |
|                                                  |                          | L/min                                                            | 120                                                                                 |                                                                  | 120                                                                                 |                                                                  | 120                                                                                               |               |                                 |  |
|                                                  |                          | cfm                                                              | 4.2                                                                                 |                                                                  | 4.2                                                                                 |                                                                  | 4.2                                                                                               |               |                                 |  |
|                                                  | Pressure drop            | psi                                                              | 6.38                                                                                |                                                                  | 6.38                                                                                |                                                                  | 6.38                                                                                              |               |                                 |  |
|                                                  |                          | kPa                                                              | 44                                                                                  |                                                                  | 44                                                                                  |                                                                  | 44                                                                                                |               |                                 |  |
|                                                  |                          | Operating volume range                                           | G/h                                                                                 | 1,189 ~ 3,054                                                    |                                                                                     | 1,189 ~ 3,054                                                    |                                                                                                   | 1,189 ~ 3,054 |                                 |  |
|                                                  |                          | G/min                                                            | 19.8 ~ 50.9                                                                         |                                                                  | 19.8 ~ 50.9                                                                         |                                                                  | 19.8 ~ 50.9                                                                                       |               |                                 |  |
|                                                  |                          | m³/h                                                             | 4.5 ~ 11.6                                                                          |                                                                  | 4.5 ~ 11.6                                                                          |                                                                  | 4.5 ~ 11.6                                                                                        |               |                                 |  |
| Compressor                                       | Type x Quantity          | Inverter scroll hermetic compressor x 1                          |                                                                                     | Inverter scroll hermetic compressor x 1                          |                                                                                     | Inverter scroll hermetic compressor x 1                          |                                                                                                   |               |                                 |  |
|                                                  | Starting method          | Inverter                                                         |                                                                                     | Inverter                                                         |                                                                                     | Inverter                                                         |                                                                                                   |               |                                 |  |
|                                                  | Motor output             | kW                                                               |                                                                                     | 9.5                                                              |                                                                                     | 11.0                                                             |                                                                                                   | 12.4          |                                 |  |
|                                                  | Case heater              | kW                                                               |                                                                                     | 0.045                                                            |                                                                                     | 0.045                                                            |                                                                                                   | 0.045         |                                 |  |
| External finish                                  |                          | Galvanized steel sheets                                          |                                                                                     | Galvanized steel sheets                                          |                                                                                     | Galvanized steel sheets                                          |                                                                                                   |               |                                 |  |
| External dimension H x W x D                     |                          | in.                                                              | 57-1/8 x 34-11/16 x 21-11/16                                                        |                                                                  | 57-1/8 x 34-11/16 x 21-11/16                                                        |                                                                  | 57-1/8 x 34-11/16 x 21-11/16                                                                      |               |                                 |  |
|                                                  |                          | mm                                                               | 1,450 x 880 x 550                                                                   |                                                                  | 1,450 x 880 x 550                                                                   |                                                                  | 1,450 x 880 x 550                                                                                 |               |                                 |  |
| Protection devices                               | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                     | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                   |               |                                 |  |
|                                                  | Inverter circuit         | Over-heat protection, Over-current protection                    |                                                                                     | Over-heat protection, Over-current protection                    |                                                                                     | Over-heat protection, Over-current protection                    |                                                                                                   |               |                                 |  |
| Compressor                                       |                          | Over-heat protection                                             |                                                                                     | Over-heat protection                                             |                                                                                     | Over-heat protection                                             |                                                                                                   |               |                                 |  |
| Refrigerant                                      | Type x original charge   | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                     | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                     | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                                   |               |                                 |  |
| Net weight                                       |                          | lbs (kg)                                                         | 499 (226)                                                                           |                                                                  | 499 (226)                                                                           |                                                                  | 499 (226)                                                                                         |               |                                 |  |
| Heat exchanger                                   |                          |                                                                  | plate type                                                                          |                                                                  | plate type                                                                          |                                                                  | plate type                                                                                        |               |                                 |  |
|                                                  | Water volume in plate    | G                                                                | 1.22                                                                                |                                                                  | 1.22                                                                                |                                                                  | 1.22                                                                                              |               |                                 |  |
|                                                  |                          | l                                                                | 4.6                                                                                 |                                                                  | 4.6                                                                                 |                                                                  | 4.6                                                                                               |               |                                 |  |
|                                                  | Water pressure Max.      | psi                                                              | 290                                                                                 |                                                                  | 290                                                                                 |                                                                  | 290                                                                                               |               |                                 |  |
|                                                  |                          | MPa                                                              | 2.0                                                                                 |                                                                  | 2.0                                                                                 |                                                                  | 2.0                                                                                               |               |                                 |  |
| Optional parts                                   |                          |                                                                  | joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                                                  | joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                                                  | joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |               |                                 |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).



# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                |                          |                           | PQHY-P144ZSLMU-B                                                                         |                                | PQHY-P168ZSLMU-B                                                                         |                                | PQHY-P192ZSLMU-B                                                                         |                                |                                 |  |
|--------------------------------------------------|--------------------------|---------------------------|------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|--|
| Indoor Model                                     |                          |                           | Non-Ducted                                                                               |                                | Ducted                                                                                   |                                | Non-Ducted                                                                               |                                | Ducted                          |  |
| Power source                                     |                          |                           | 3-phase 3-wire 575 V ±10% 60 Hz                                                          |                                | 3-phase 3-wire 575 V ±10% 60 Hz                                                          |                                | 3-phase 3-wire 575 V ±10% 60 Hz                                                          |                                | 3-phase 3-wire 575 V ±10% 60 Hz |  |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                     | 144,000                                                                                  |                                | 168,000                                                                                  |                                | 192,000                                                                                  |                                |                                 |  |
|                                                  |                          | kW                        | 42.2                                                                                     |                                | 49.2                                                                                     |                                | 56.3                                                                                     |                                |                                 |  |
| (575)                                            | Power input              | kW                        | 7.11                                                                                     |                                | 9.33                                                                                     |                                | 11.30                                                                                    |                                |                                 |  |
|                                                  | Current input            | A                         | 7.9                                                                                      |                                | 10.4                                                                                     |                                | 12.6                                                                                     |                                |                                 |  |
| (Rated)                                          |                          | BTU/h                     | 138,000                                                                                  |                                | 160,000                                                                                  |                                | 184,000                                                                                  |                                |                                 |  |
|                                                  |                          | kW                        | 40.4                                                                                     |                                | 46.9                                                                                     |                                | 53.9                                                                                     |                                |                                 |  |
| (575)                                            | Power input              | kW                        | 7.13                                                                                     | 8.17                           | 8.87                                                                                     | 9.66                           | 10.57                                                                                    | 11.54                          |                                 |  |
|                                                  | Current input            | A                         | 7.9                                                                                      | 9.1                            | 9.8                                                                                      | 10.7                           | 11.7                                                                                     | 12.8                           |                                 |  |
| Temp. range of cooling                           | Indoor                   | W.B.                      | 59~75°F (15~24°C)                                                                        |                                | 59~75°F (15~24°C)                                                                        |                                | 59~75°F (15~24°C)                                                                        |                                |                                 |  |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                       |                                | 50~113°F (10~45°C)                                                                       |                                | 50~113°F (10~45°C)                                                                       |                                |                                 |  |
| Heating capacity (Nominal)                       | *2                       | BTU/h                     | 160,000                                                                                  |                                | 188,000                                                                                  |                                | 215,000                                                                                  |                                |                                 |  |
|                                                  |                          | kW                        | 46.9                                                                                     |                                | 55.1                                                                                     |                                | 63.0                                                                                     |                                |                                 |  |
| (575)                                            | Power input              | kW                        | 7.45                                                                                     |                                | 9.34                                                                                     |                                | 11.02                                                                                    |                                |                                 |  |
|                                                  | Current input            | A                         | 8.3                                                                                      |                                | 10.4                                                                                     |                                | 12.2                                                                                     |                                |                                 |  |
| (Rated)                                          |                          | BTU/h                     | 152,000                                                                                  |                                | 178,000                                                                                  |                                | 204,000                                                                                  |                                |                                 |  |
|                                                  |                          | kW                        | 44.5                                                                                     |                                | 52.2                                                                                     |                                | 59.8                                                                                     |                                |                                 |  |
| (575)                                            | Power input              | kW                        | 6.50                                                                                     | 7.29                           | 8.05                                                                                     | 8.04                           | 9.53                                                                                     | 8.82                           |                                 |  |
|                                                  | Current input            | A                         | 7.2                                                                                      | 8.1                            | 8.9                                                                                      | 8.9                            | 10.6                                                                                     | 9.8                            |                                 |  |
| Temp. range of heating                           | Indoor                   | D.B.                      | 59~81°F (15~27°C)                                                                        |                                | 59~81°F (15~27°C)                                                                        |                                | 59~81°F (15~27°C)                                                                        |                                |                                 |  |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                       |                                | 50~113°F (10~45°C)                                                                       |                                | 50~113°F (10~45°C)                                                                       |                                |                                 |  |
| Indoor unit connectable                          | Total capacity           |                           | 50~130% of heatsource unit capacity                                                      |                                | 50~130% of heatsource unit capacity                                                      |                                | 50~130% of heatsource unit capacity                                                      |                                |                                 |  |
|                                                  | Model/Quantity           |                           | P04~P96/1~36                                                                             |                                | P04~P96/1~42                                                                             |                                | P04~P96/1~48                                                                             |                                |                                 |  |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                    | 63.5                                                                                     |                                | 66.5                                                                                     |                                | 68.0                                                                                     |                                |                                 |  |
| Refrigerant                                      | Liquid pipe              | in. (mm)                  | 1/2 (12.7) Brazed                                                                        |                                | 5/8 (15.88) Brazed                                                                       |                                | 5/8 (15.88) Brazed                                                                       |                                |                                 |  |
| piping diameter                                  | Gas pipe                 | in. (mm)                  | 1-1/8 (28.58) Brazed                                                                     |                                | 1-1/8 (28.58) Brazed                                                                     |                                | 1-1/8 (28.58) Brazed                                                                     |                                |                                 |  |
| Set Model                                        |                          |                           |                                                                                          |                                |                                                                                          |                                |                                                                                          |                                |                                 |  |
| Model                                            |                          |                           | PQHY-P72ZLMU-B                                                                           |                                | PQHY-P72ZLMU-B                                                                           |                                | PQHY-P96ZLMU-B                                                                           |                                | PQHY-P96ZLMU-B                  |  |
| Minimum Circuit Ampacity                         |                          | A                         | 6                                                                                        |                                | 6                                                                                        |                                | 9                                                                                        |                                | 9                               |  |
| Maximum Overcurrent Protection                   |                          | A                         | 15                                                                                       |                                | 15                                                                                       |                                | 15                                                                                       |                                | 15                              |  |
| Inlet water                                      | Water flow rate          | G/h                       | 1,522 + 1,522                                                                            |                                | 1,522 + 1,522                                                                            |                                | 1,522 + 1,522                                                                            |                                |                                 |  |
|                                                  |                          | G/min                     | 25.4 + 25.4                                                                              |                                | 25.4 + 25.4                                                                              |                                | 25.4 + 25.4                                                                              |                                |                                 |  |
|                                                  |                          | m³/h                      | 5.76 + 5.76                                                                              |                                | 5.76 + 5.76                                                                              |                                | 5.76 + 5.76                                                                              |                                |                                 |  |
|                                                  |                          | L/min                     | 96 + 96                                                                                  |                                | 96 + 96                                                                                  |                                | 96 + 96                                                                                  |                                |                                 |  |
|                                                  |                          | cfm                       | 3.4 + 3.4                                                                                |                                | 3.4 + 3.4                                                                                |                                | 3.4 + 3.4                                                                                |                                |                                 |  |
|                                                  | Pressure drop            | psi                       | 3.48                                                                                     | 3.48                           | 3.48                                                                                     | 3.48                           | 3.48                                                                                     | 3.48                           |                                 |  |
|                                                  |                          | kPa                       | 24                                                                                       | 24                             | 24                                                                                       | 24                             | 24                                                                                       | 24                             |                                 |  |
|                                                  | Operating volume range   | G/h                       | 793 + 793 ~ 1,902 + 1,902                                                                |                                | 793 + 793 ~ 1,902 + 1,902                                                                |                                | 793 + 793 ~ 1,902 + 1,902                                                                |                                |                                 |  |
| G/min                                            |                          | 13.2 + 13.2 ~ 31.7 + 31.7 |                                                                                          | 13.2 + 13.2 ~ 31.7 + 31.7      |                                                                                          | 13.2 + 13.2 ~ 31.7 + 31.7      |                                                                                          |                                |                                 |  |
|                                                  | m³/h                     | 3.0 + 3.0 ~ 7.2 + 7.2     |                                                                                          | 3.0 + 3.0 ~ 7.2 + 7.2          |                                                                                          | 3.0 + 3.0 ~ 7.2 + 7.2          |                                                                                          |                                |                                 |  |
| Compressor                                       | Type x Quantity          |                           | Inverter scroll hermetic compressor x 1                                                  |                                | Inverter scroll hermetic compressor x 1                                                  |                                | Inverter scroll hermetic compressor x 1                                                  |                                |                                 |  |
|                                                  | Starting method          |                           | Inverter                                                                                 | Inverter                       | Inverter                                                                                 | Inverter                       | Inverter                                                                                 | Inverter                       |                                 |  |
|                                                  | Motor output             | kW                        | 4.3                                                                                      |                                | 6.0                                                                                      |                                | 4.3                                                                                      |                                | 6.0                             |  |
|                                                  | Case heater              | kW                        | 0.035                                                                                    |                                | 0.035                                                                                    |                                | 0.035                                                                                    |                                | 0.035                           |  |
| External finish                                  |                          |                           | Galvanized steel sheets                                                                  |                                | Galvanized steel sheets                                                                  |                                | Galvanized steel sheets                                                                  |                                |                                 |  |
| External dimension H x W x D                     |                          | in.                       | 43-5/16 x 34-11/16 x 21-11/16                                                            | 43-5/16 x 34-11/16 x 21-11/16  | 43-5/16 x 34-11/16 x 21-11/16                                                            | 43-5/16 x 34-11/16 x 21-11/16  | 43-5/16 x 34-11/16 x 21-11/16                                                            | 43-5/16 x 34-11/16 x 21-11/16  |                                 |  |
|                                                  |                          | mm                        | 1,100 x 880 x 550                                                                        | 1,100 x 880 x 550              | 1,100 x 880 x 550                                                                        | 1,100 x 880 x 550              | 1,100 x 880 x 550                                                                        | 1,100 x 880 x 550              | 1,100 x 880 x 550               |  |
| Protection devices                               | High pressure protection |                           | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                         |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                         |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                         |                                |                                 |  |
|                                                  | Inverter circuit         |                           | Over-heat protection, Over-current protection                                            |                                | Over-heat protection, Over-current protection                                            |                                | Over-heat protection, Over-current protection                                            |                                |                                 |  |
| Refrigerant                                      | Compressor               |                           | Over-heat protection                                                                     |                                | Over-heat protection                                                                     |                                | Over-heat protection                                                                     |                                | Over-heat protection            |  |
|                                                  | Type x original charge   |                           | R410A x 11 lbs + 1 oz (5.0 kg)                                                           | R410A x 11 lbs + 1 oz (5.0 kg) | R410A x 11 lbs + 1 oz (5.0 kg)                                                           | R410A x 11 lbs + 1 oz (5.0 kg) | R410A x 11 lbs + 1 oz (5.0 kg)                                                           | R410A x 11 lbs + 1 oz (5.0 kg) |                                 |  |
| Net weight                                       |                          | lbs (kg)                  | 400 (181)                                                                                |                                | 400 (181)                                                                                |                                | 400 (181)                                                                                |                                | 400 (181)                       |  |
| Heat exchanger                                   | Water volume in plate    |                           | plate type                                                                               |                                | plate type                                                                               |                                | plate type                                                                               |                                | plate type                      |  |
|                                                  |                          | G                         | 1.22                                                                                     | 1.22                           | 1.22                                                                                     | 1.22                           | 1.22                                                                                     | 1.22                           |                                 |  |
|                                                  |                          | l                         | 4.6                                                                                      | 4.6                            | 4.6                                                                                      | 4.6                            | 4.6                                                                                      | 4.6                            |                                 |  |
| Water pressure Max.                              | psi                      | 290                       | 290                                                                                      | 290                            | 290                                                                                      | 290                            | 290                                                                                      | 290                            |                                 |  |
|                                                  | MPa                      | 2.0                       | 2.0                                                                                      | 2.0                            | 2.0                                                                                      | 2.0                            | 2.0                                                                                      | 2.0                            |                                 |  |
| Pipe between unit and distributor                | Liquid pipe              | in. (mm)                  | 3/8 (9.52) Brazed                                                                        | 3/8 (9.52) Brazed              | 3/8 (9.52) Brazed                                                                        | 3/8 (9.52) Brazed              | 3/8 (9.52) Brazed                                                                        | 3/8 (9.52) Brazed              |                                 |  |
|                                                  | Gas pipe                 | in. (mm)                  | 3/4 (19.05) Brazed                                                                       | 3/4 (19.05) Brazed             | 7/8 (22.2) Brazed                                                                        | 7/8 (22.2) Brazed              | 7/8 (22.2) Brazed                                                                        | 7/8 (22.2) Brazed              |                                 |  |
| Optional parts                                   |                          |                           | Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 |                                | Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2 |                                | Heat Source Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y302S-G2 |                                |                                 |  |
|                                                  |                          |                           | Header: CMY-Y104, 108, 1010C-G                                                           |                                | Header: CMY-Y104, 108, 1010C-G                                                           |                                | Header: CMY-Y104, 108, 1010C-G                                                           |                                |                                 |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).



# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                |                          |                           | PQHY-P216ZSLMU-B                                                                                                                            |     |                                | PQHY-P240ZSLMU-B                                                                                                                            |                                |                      |
|--------------------------------------------------|--------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------|
| Indoor Model                                     |                          |                           | Non-Ducted                                                                                                                                  |     | Ducted                         | Non-Ducted                                                                                                                                  |                                | Ducted               |
| Power source                                     |                          |                           | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |     |                                | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |                                |                      |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                     | 216,000                                                                                                                                     |     |                                | 240,000                                                                                                                                     |                                |                      |
|                                                  | *1                       | kW                        | 63.3                                                                                                                                        |     |                                | 70.3                                                                                                                                        |                                |                      |
| (575)                                            | Power input              | kW                        | 14.03                                                                                                                                       |     |                                | 16.89                                                                                                                                       |                                |                      |
|                                                  | Current input            | A                         | 15.6                                                                                                                                        |     |                                | 18.8                                                                                                                                        |                                |                      |
| (Rated)                                          |                          | BTU/h                     | 206,000                                                                                                                                     |     |                                | 230,000                                                                                                                                     |                                |                      |
|                                                  |                          | kW                        | 60.4                                                                                                                                        |     |                                | 67.4                                                                                                                                        |                                |                      |
| (575)                                            | Power input              | kW                        | 13.09                                                                                                                                       |     | 13.88                          | 15.73                                                                                                                                       |                                | 16.79                |
|                                                  | Current input            | A                         | 14.6                                                                                                                                        |     | 15.4                           | 17.5                                                                                                                                        |                                | 18.7                 |
| Temp. range of cooling                           | Indoor                   | W.B.                      | 59~75°F (15~24°C)                                                                                                                           |     |                                | 59~75°F (15~24°C)                                                                                                                           |                                |                      |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                                                                          |     |                                | 50~113°F (10~45°C)                                                                                                                          |                                |                      |
| Heating capacity (Nominal)                       | *2                       | BTU/h                     | 243,000                                                                                                                                     |     |                                | 270,000                                                                                                                                     |                                |                      |
|                                                  | *2                       | kW                        | 71.2                                                                                                                                        |     |                                | 79.1                                                                                                                                        |                                |                      |
| (575)                                            | Power input              | kW                        | 12.88                                                                                                                                       |     |                                | 14.58                                                                                                                                       |                                |                      |
|                                                  | Current input            | A                         | 14.3                                                                                                                                        |     |                                | 16.2                                                                                                                                        |                                |                      |
| (Rated)                                          |                          | BTU/h                     | 232,000                                                                                                                                     |     |                                | 258,000                                                                                                                                     |                                |                      |
|                                                  |                          | kW                        | 68.0                                                                                                                                        |     |                                | 75.6                                                                                                                                        |                                |                      |
| (575)                                            | Power input              | kW                        | 11.11                                                                                                                                       |     | 10.04                          | 12.83                                                                                                                                       |                                | 11.67                |
|                                                  | Current input            | A                         | 12.3                                                                                                                                        |     | 11.2                           | 14.3                                                                                                                                        |                                | 13.0                 |
| Temp. range of heating                           | Indoor                   | D.B.                      | 59~81°F (15~27°C)                                                                                                                           |     |                                | 59~81°F (15~27°C)                                                                                                                           |                                |                      |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                                                                          |     |                                | 50~113°F (10~45°C)                                                                                                                          |                                |                      |
| Indoor unit connectable                          | Total capacity           |                           | 50~130% of heatsource unit capacity                                                                                                         |     |                                | 50~130% of heatsource unit capacity                                                                                                         |                                |                      |
|                                                  | Model/Quantity           |                           | P04~P96/2~50                                                                                                                                |     |                                | P04~P96/2~50                                                                                                                                |                                |                      |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                    | 72.0                                                                                                                                        |     |                                | 74.0                                                                                                                                        |                                |                      |
| Refrigerant piping diameter                      | Liquid pipe              | in. (mm)                  | 5/8 (15.88) Brazed                                                                                                                          |     |                                | 5/8 (15.88) Brazed                                                                                                                          |                                |                      |
|                                                  | Gas pipe                 | in. (mm)                  | 1-1/8 (28.58) Brazed                                                                                                                        |     |                                | 1-1/8 (28.58) Brazed                                                                                                                        |                                |                      |
| Set Model                                        |                          |                           |                                                                                                                                             |     |                                |                                                                                                                                             |                                |                      |
| Model                                            |                          |                           | PQHY-P120ZLMU-B                                                                                                                             |     | PQHY-P96ZLMU-B                 |                                                                                                                                             | PQHY-P120ZLMU-B                |                      |
| Minimum Circuit Ampacity                         |                          | A                         | 13                                                                                                                                          |     | 9                              |                                                                                                                                             | 13                             |                      |
| Maximum Overcurrent Protection                   |                          | A                         | 20                                                                                                                                          |     | 15                             |                                                                                                                                             | 20                             |                      |
| Inlet water                                      | Water flow rate          | G/h                       | 1,522 + 1,522                                                                                                                               |     |                                | 1,522 + 1,522                                                                                                                               |                                |                      |
|                                                  |                          | G/min                     | 25.4 + 25.4                                                                                                                                 |     |                                | 25.4 + 25.4                                                                                                                                 |                                |                      |
|                                                  |                          | m³/h                      | 5.76 + 5.76                                                                                                                                 |     |                                | 5.76 + 5.76                                                                                                                                 |                                |                      |
|                                                  |                          | L/min                     | 96 + 96                                                                                                                                     |     |                                | 96 + 96                                                                                                                                     |                                |                      |
|                                                  |                          | cfm                       | 3.4 + 3.4                                                                                                                                   |     |                                | 3.4 + 3.4                                                                                                                                   |                                |                      |
|                                                  | Pressure drop            | psi                       | 3.48                                                                                                                                        |     | 3.48                           | 3.48                                                                                                                                        |                                | 3.48                 |
|                                                  |                          | kPa                       | 24                                                                                                                                          |     | 24                             | 24                                                                                                                                          |                                | 24                   |
|                                                  | Operating volume range   | G/h                       | 793 + 793 ~ 1,902 + 1,902                                                                                                                   |     |                                | 793 + 793 ~ 1,902 + 1,902                                                                                                                   |                                |                      |
| G/min                                            |                          | 13.2 + 13.2 ~ 31.7 + 31.7 |                                                                                                                                             |     | 13.2 + 13.2 ~ 31.7 + 31.7      |                                                                                                                                             |                                |                      |
| m³/h                                             |                          | 3.0 + 3.0 ~ 7.2 + 7.2     |                                                                                                                                             |     | 3.0 + 3.0 ~ 7.2 + 7.2          |                                                                                                                                             |                                |                      |
| Compressor                                       | Type x Quantity          |                           | Inverter scroll hermetic compressor x 1                                                                                                     |     |                                | Inverter scroll hermetic compressor x 1                                                                                                     |                                |                      |
|                                                  | Starting method          |                           | Inverter                                                                                                                                    |     | Inverter                       | Inverter                                                                                                                                    |                                | Inverter             |
|                                                  | Motor output             | kW                        | 7.7                                                                                                                                         |     | 6.0                            | 7.7                                                                                                                                         |                                | 7.7                  |
|                                                  | Case heater              | kW                        | 0.035                                                                                                                                       |     | 0.035                          | 0.035                                                                                                                                       |                                | 0.035                |
| External finish                                  |                          |                           | Galvanized steel sheets                                                                                                                     |     |                                | Galvanized steel sheets                                                                                                                     |                                |                      |
| External dimension H x W x D                     |                          | in.                       | 43-5/16 x 34-11/16 x 21-11/16                                                                                                               |     | 43-5/16 x 34-11/16 x 21-11/16  |                                                                                                                                             | 43-5/16 x 34-11/16 x 21-11/16  |                      |
|                                                  |                          | mm                        | 1,100 x 880 x 550                                                                                                                           |     | 1,100 x 880 x 550              |                                                                                                                                             | 1,100 x 880 x 550              |                      |
| Protection devices                               | High pressure protection |                           | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                            |     |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                            |                                |                      |
|                                                  | Inverter circuit         |                           | Over-heat protection, Over-current protection                                                                                               |     |                                | Over-heat protection, Over-current protection                                                                                               |                                |                      |
|                                                  | Compressor               |                           | Over-heat protection                                                                                                                        |     | Over-heat protection           | Over-heat protection                                                                                                                        |                                | Over-heat protection |
| Refrigerant                                      | Type x original charge   |                           | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                              |     | R410A x 11 lbs + 1 oz (5.0 kg) |                                                                                                                                             | R410A x 11 lbs + 1 oz (5.0 kg) |                      |
| Net weight                                       |                          | lbs (kg)                  | 400 (181)                                                                                                                                   |     | 400 (181)                      |                                                                                                                                             | 400 (181)                      |                      |
| Heat exchanger                                   |                          |                           | plate type                                                                                                                                  |     | plate type                     |                                                                                                                                             | plate type                     |                      |
|                                                  | Water volume in plate    | G                         | 1.22                                                                                                                                        |     | 1.22                           |                                                                                                                                             | 1.22                           |                      |
|                                                  |                          | I                         | 4.6                                                                                                                                         |     | 4.6                            |                                                                                                                                             | 4.6                            |                      |
|                                                  | Water pressure Max.      | psi                       | 290                                                                                                                                         |     | 290                            |                                                                                                                                             | 290                            |                      |
| MPa                                              |                          | 2.0                       |                                                                                                                                             | 2.0 |                                | 2.0                                                                                                                                         |                                |                      |
| Pipe between unit and distributor                | Liquid pipe              | in. (mm)                  | 1/2 (12.7) Brazed                                                                                                                           |     | 1/2 (12.7) Brazed              |                                                                                                                                             | 1/2 (12.7) Brazed              |                      |
|                                                  | Gas pipe                 | in. (mm)                  | 7/8 (22.2) Brazed                                                                                                                           |     | 7/8 (22.2) Brazed              |                                                                                                                                             | 7/8 (22.2) Brazed              |                      |
| Optional parts                                   |                          |                           | Heat Source Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |     |                                | Heat Source Twinning kit: CMY-Y100CBK3<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                |                      |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-B

## ► Specifications



| Heat Source Model                                   |                           |                                                                  | PQHY-P288ZSLMU-B                                                                                                                            |                                |                                                                  | PQHY-P312ZSLMU-B                                                                                                                            |                                |                              |
|-----------------------------------------------------|---------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| Indoor Model                                        |                           |                                                                  | Non-Ducted                                                                                                                                  |                                | Ducted                                                           | Non-Ducted                                                                                                                                  |                                | Ducted                       |
| Power source                                        |                           |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |                                |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |                                |                              |
| Cooling capacity<br>(Nominal)                       | *1                        | BTU/h                                                            | 288,000                                                                                                                                     |                                |                                                                  | 312,000                                                                                                                                     |                                |                              |
|                                                     |                           | *1 kW                                                            | 84.4                                                                                                                                        |                                |                                                                  | 91.4                                                                                                                                        |                                |                              |
| (575)                                               | Power input               | kW                                                               | 20.42                                                                                                                                       |                                |                                                                  | 23.41                                                                                                                                       |                                |                              |
|                                                     |                           | Current input                                                    | A                                                                                                                                           |                                |                                                                  | 26.1                                                                                                                                        |                                |                              |
| (Rated)                                             |                           | BTU/h                                                            | 276,000                                                                                                                                     |                                |                                                                  | 298,000                                                                                                                                     |                                |                              |
|                                                     |                           | kW                                                               | 80.9                                                                                                                                        |                                |                                                                  | 87.3                                                                                                                                        |                                |                              |
| (575)                                               | Power input               | kW                                                               | 20.11                                                                                                                                       |                                |                                                                  | 22.45                                                                                                                                       |                                |                              |
|                                                     |                           | Current input                                                    | 22.4                                                                                                                                        | 25.2                           |                                                                  | 25.0                                                                                                                                        | 27.8                           |                              |
| Temp. range of<br>cooling                           | Indoor                    | W.B.                                                             | 59~75°F (15~24°C)                                                                                                                           |                                |                                                                  | 59~75°F (15~24°C)                                                                                                                           |                                |                              |
|                                                     | Inlet water               | °F                                                               | 50~113°F (10~45°C)                                                                                                                          |                                |                                                                  | 50~113°F (10~45°C)                                                                                                                          |                                |                              |
| Heating capacity<br>(Nominal)                       | *2                        | BTU/h                                                            | 323,000                                                                                                                                     |                                |                                                                  | 350,000                                                                                                                                     |                                |                              |
|                                                     |                           | *2 kW                                                            | 94.7                                                                                                                                        |                                |                                                                  | 102.6                                                                                                                                       |                                |                              |
| (575)                                               | Power input               | kW                                                               | 17.50                                                                                                                                       |                                |                                                                  | 19.11                                                                                                                                       |                                |                              |
|                                                     |                           | Current input                                                    | A                                                                                                                                           |                                |                                                                  | 21.3                                                                                                                                        |                                |                              |
| (Rated)                                             |                           | BTU/h                                                            | 304,000                                                                                                                                     |                                |                                                                  | 334,000                                                                                                                                     |                                |                              |
|                                                     |                           | kW                                                               | 89.1                                                                                                                                        |                                |                                                                  | 97.9                                                                                                                                        |                                |                              |
| (575)                                               | Power input               | kW                                                               | 15.48                                                                                                                                       | 15.36                          |                                                                  | 17.09                                                                                                                                       | 17.12                          |                              |
|                                                     |                           | Current input                                                    | 17.2                                                                                                                                        | 17.1                           |                                                                  | 19.0                                                                                                                                        | 19.0                           |                              |
| Temp. range of<br>heating                           | Indoor                    | D.B.                                                             | 59~81°F (15~27°C)                                                                                                                           |                                |                                                                  | 59~81°F (15~27°C)                                                                                                                           |                                |                              |
|                                                     | Inlet water               | °F                                                               | 50~113°F (10~45°C)                                                                                                                          |                                |                                                                  | 50~113°F (10~45°C)                                                                                                                          |                                |                              |
| Indoor unit<br>connectable                          | Total capacity            | 50~130% of heatsource unit capacity                              |                                                                                                                                             |                                | 50~130% of heatsource unit capacity                              |                                                                                                                                             |                                |                              |
|                                                     | Model/Quantity            | P04~P96/2~50                                                     |                                                                                                                                             |                                | P04~P96/2~50                                                     |                                                                                                                                             |                                |                              |
| Sound pressure level<br>(measured in anechoic room) |                           | dB <A>                                                           | 71.0                                                                                                                                        |                                |                                                                  | 72.5                                                                                                                                        |                                |                              |
| Refrigerant                                         | Liquid pipe               | in. (mm)                                                         | 3/4 (19.05) Brazed                                                                                                                          |                                |                                                                  | 3/4 (19.05) Brazed                                                                                                                          |                                |                              |
| piping diameter                                     | Gas pipe                  | in. (mm)                                                         | 1-3/8 (34.93) Brazed                                                                                                                        |                                |                                                                  | 1-3/8 (34.93) Brazed                                                                                                                        |                                |                              |
| Set Model                                           |                           |                                                                  |                                                                                                                                             |                                |                                                                  |                                                                                                                                             |                                |                              |
| Model                                               |                           |                                                                  | PQHY-P144ZLMU-B                                                                                                                             |                                | PQHY-P144ZLMU-B                                                  | PQHY-P168ZLMU-B                                                                                                                             |                                | PQHY-P144ZLMU-B              |
| Minimum Circuit Ampacity                            |                           | A                                                                | 15                                                                                                                                          |                                | 15                                                               | 21                                                                                                                                          |                                | 15                           |
| Maximum Overcurrent Protection                      |                           | A                                                                | 25                                                                                                                                          |                                | 25                                                               | 35                                                                                                                                          |                                | 25                           |
| Inlet water                                         | Water flow rate           | G/h                                                              | 1,902 + 1,902                                                                                                                               |                                |                                                                  | 1,902 + 1,902                                                                                                                               |                                |                              |
|                                                     |                           | G/min                                                            | 31.7 + 31.7                                                                                                                                 |                                |                                                                  | 31.7 + 31.7                                                                                                                                 |                                |                              |
|                                                     |                           | m³/h                                                             | 7.20 + 7.20                                                                                                                                 |                                |                                                                  | 7.20 + 7.20                                                                                                                                 |                                |                              |
|                                                     |                           | L/min                                                            | 120 + 120                                                                                                                                   |                                |                                                                  | 120 + 120                                                                                                                                   |                                |                              |
|                                                     |                           | cfm                                                              | 4.2 + 4.2                                                                                                                                   |                                |                                                                  | 4.2 + 4.2                                                                                                                                   |                                |                              |
|                                                     | Pressure drop             | psi                                                              | 6.38                                                                                                                                        | 6.38                           |                                                                  | 6.38                                                                                                                                        | 6.38                           |                              |
|                                                     |                           | kPa                                                              | 44                                                                                                                                          | 44                             |                                                                  | 44                                                                                                                                          | 44                             |                              |
|                                                     | Operating volume<br>range | G/h                                                              | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                               |                                |                                                                  | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                               |                                |                              |
| G/min                                               |                           | 19.8 + 19.8 ~ 50.9 + 50.9                                        |                                                                                                                                             |                                | 19.8 + 19.8 ~ 50.9 + 50.9                                        |                                                                                                                                             |                                |                              |
| m³/h                                                |                           | 4.5 + 4.5 ~ 11.6 + 11.6                                          |                                                                                                                                             |                                | 4.5 + 4.5 ~ 11.6 + 11.6                                          |                                                                                                                                             |                                |                              |
| Compressor                                          | Type x Quantity           | Inverter scroll hermetic compressor x 1                          |                                                                                                                                             |                                | Inverter scroll hermetic compressor x 1                          |                                                                                                                                             |                                |                              |
|                                                     | Starting method           | Inverter                                                         |                                                                                                                                             | Inverter                       | Inverter                                                         |                                                                                                                                             | Inverter                       |                              |
|                                                     | Motor output              | kW                                                               |                                                                                                                                             | 9.5                            | 9.5                                                              | 11.0                                                                                                                                        |                                | 9.5                          |
|                                                     | Case heater               | kW                                                               |                                                                                                                                             | 0.045                          | 0.045                                                            | 0.045                                                                                                                                       |                                | 0.045                        |
| External finish                                     |                           |                                                                  | Galvanized steel sheets                                                                                                                     |                                |                                                                  | Galvanized steel sheets                                                                                                                     |                                |                              |
| External dimension H x W x D                        |                           | in.                                                              | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                |                                | 57-1/8 x 34-11/16 x 21-11/16                                     | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                |                                | 57-1/8 x 34-11/16 x 21-11/16 |
|                                                     |                           | mm                                                               | 1,450 x 880 x 550                                                                                                                           |                                | 1,450 x 880 x 550                                                | 1,450 x 880 x 550                                                                                                                           |                                | 1,450 x 880 x 550            |
| Protection<br>devices                               | High pressure protection  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                             |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                             |                                |                              |
|                                                     | Inverter circuit          | Over-heat protection, Over-current protection                    |                                                                                                                                             |                                | Over-heat protection, Over-current protection                    |                                                                                                                                             |                                |                              |
|                                                     | Compressor                | Over-heat protection                                             |                                                                                                                                             | Over-heat protection           | Over-heat protection                                             |                                                                                                                                             | Over-heat protection           |                              |
| Refrigerant                                         | Type x original charge    | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                                                                             | R410A x 13 lbs + 4 oz (6.0 kg) | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                                                                             | R410A x 13 lbs + 4 oz (6.0 kg) |                              |
| Net weight                                          | lbs (kg)                  | 499 (226)                                                        |                                                                                                                                             | 499 (226)                      | 499 (226)                                                        |                                                                                                                                             | 499 (226)                      |                              |
| Heat exchanger                                      |                           |                                                                  | plate type                                                                                                                                  |                                | plate type                                                       | plate type                                                                                                                                  |                                | plate type                   |
|                                                     |                           | Water volume                                                     | G                                                                                                                                           |                                | 1.22                                                             | 1.22                                                                                                                                        | 1.22                           |                              |
|                                                     |                           | in plate                                                         | l                                                                                                                                           |                                | 4.6                                                              | 4.6                                                                                                                                         | 4.6                            |                              |
|                                                     |                           | Water pressure                                                   | psi                                                                                                                                         |                                | 290                                                              | 290                                                                                                                                         | 290                            |                              |
|                                                     |                           | Max.                                                             | MPa                                                                                                                                         |                                | 2.0                                                              | 2.0                                                                                                                                         | 2.0                            |                              |
| Pipe between unit<br>and distributor                | Liquid pipe               | in. (mm)                                                         | 1/2 (12.7) Brazed                                                                                                                           |                                | 1/2 (12.7) Brazed                                                | 5/8 (15.88) Brazed                                                                                                                          |                                | 5/8 (15.88) Brazed           |
|                                                     | Gas pipe                  | in. (mm)                                                         | 1-1/8 (28.58) Brazed                                                                                                                        |                                | 1-1/8 (28.58) Brazed                                             | 1-1/8 (28.58) Brazed                                                                                                                        |                                | 1-1/8 (28.58) Brazed         |
| Optional parts                                      |                           |                                                                  | Heat Source Twinning kit: CMY-Y200CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                |                                                                  | Heat Source Twinning kit: CMY-Y200CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                |                              |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WY-Series (575V)

### PQHY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                   |                                   |                              | PQHY-P336ZSLMU-B                                                                                                                            |                                | PQHY-P360ZSLMU-B                                                                                                                            |                                |
|-----------------------------------------------------|-----------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Indoor Model                                        |                                   |                              | Non-Ducted                                                                                                                                  |                                | Ducted                                                                                                                                      |                                |
| Power source                                        |                                   |                              | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |                                | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                             |                                |
| Cooling capacity<br>(Nominal)                       | *1                                | BTU/h                        | 336,000                                                                                                                                     |                                | 360,000                                                                                                                                     |                                |
|                                                     |                                   | kW                           | 98.5                                                                                                                                        |                                | 105.5                                                                                                                                       |                                |
| (575)                                               | Power input                       | kW                           | 26.84                                                                                                                                       |                                | 29.43                                                                                                                                       |                                |
|                                                     | Current input                     | A                            | 29.9                                                                                                                                        |                                | 32.8                                                                                                                                        |                                |
| (Rated)                                             |                                   | BTU/h                        | 320,000                                                                                                                                     |                                | 344,000                                                                                                                                     |                                |
|                                                     |                                   | kW                           | 93.8                                                                                                                                        |                                | 100.8                                                                                                                                       |                                |
| (575)                                               | Power input                       | kW                           | 25.14                                                                                                                                       | 27.11                          | 27.28                                                                                                                                       | 28.91                          |
|                                                     | Current input                     | A                            | 28.0                                                                                                                                        | 30.2                           | 30.4                                                                                                                                        | 32.2                           |
| Temp. range of cooling                              | Indoor                            | W.B.                         | 59~75°F (15~24°C)                                                                                                                           |                                | 59~75°F (15~24°C)                                                                                                                           |                                |
|                                                     | Inlet water                       | °F                           | 50~113°F (10~45°C)                                                                                                                          |                                | 50~113°F (10~45°C)                                                                                                                          |                                |
| Heating capacity<br>(Nominal)                       | *2                                | BTU/h                        | 378,000                                                                                                                                     |                                | 405,000                                                                                                                                     |                                |
|                                                     |                                   | kW                           | 110.8                                                                                                                                       |                                | 118.7                                                                                                                                       |                                |
| (575)                                               | Power input                       | kW                           | 20.77                                                                                                                                       |                                | 22.85                                                                                                                                       |                                |
|                                                     | Current input                     | A                            | 23.1                                                                                                                                        |                                | 25.4                                                                                                                                        |                                |
| (Rated)                                             |                                   | BTU/h                        | 360,000                                                                                                                                     |                                | 386,000                                                                                                                                     |                                |
|                                                     |                                   | kW                           | 105.5                                                                                                                                       |                                | 113.1                                                                                                                                       |                                |
| (575)                                               | Power input                       | kW                           | 18.49                                                                                                                                       | 19.10                          | 20.56                                                                                                                                       | 20.71                          |
|                                                     | Current input                     | A                            | 20.6                                                                                                                                        | 21.3                           | 22.9                                                                                                                                        | 23.1                           |
| Temp. range of heating                              | Indoor                            | D.B.                         | 59~81°F (15~27°C)                                                                                                                           |                                | 59~81°F (15~27°C)                                                                                                                           |                                |
|                                                     | Inlet water                       | °F                           | 50~113°F (10~45°C)                                                                                                                          |                                | 50~113°F (10~45°C)                                                                                                                          |                                |
| Indoor unit connectable                             | Total capacity                    |                              | 50~130% of heatsource unit capacity                                                                                                         |                                | 50~130% of heatsource unit capacity                                                                                                         |                                |
|                                                     | Model/Quantity                    |                              | P04~P96/2~50                                                                                                                                |                                | P04~P96/2~50                                                                                                                                |                                |
| Sound pressure level<br>(measured in anechoic room) |                                   | dB <A>                       | 73.0                                                                                                                                        |                                | 74.5                                                                                                                                        |                                |
| Refrigerant piping diameter                         | Liquid pipe                       | in. (mm)                     | 3/4 (19.05) Brazed                                                                                                                          |                                | 3/4 (19.05) Brazed                                                                                                                          |                                |
|                                                     | Gas pipe                          | in. (mm)                     | 1-5/8 (41.28) Brazed                                                                                                                        |                                | 1-5/8 (41.28) Brazed                                                                                                                        |                                |
| Set Model                                           |                                   |                              | PQHY-P168ZLMU-B                                                                                                                             |                                | PQHY-P168ZLMU-B                                                                                                                             |                                |
| Minimum Circuit Ampacity                            |                                   | A                            | 21                                                                                                                                          | 21                             | 26                                                                                                                                          | 21                             |
| Maximum Overcurrent Protection                      |                                   | A                            | 35                                                                                                                                          | 35                             | 45                                                                                                                                          | 35                             |
| Inlet water                                         | Water flow rate                   | G/h                          | 1,902 + 1,902                                                                                                                               |                                | 1,902 + 1,902                                                                                                                               |                                |
|                                                     |                                   | G/min                        | 31.7 + 31.7                                                                                                                                 |                                | 31.7 + 31.7                                                                                                                                 |                                |
|                                                     |                                   | m³/h                         | 7.20 + 7.20                                                                                                                                 |                                | 7.20 + 7.20                                                                                                                                 |                                |
|                                                     |                                   | L/min                        | 120 + 120                                                                                                                                   |                                | 120 + 120                                                                                                                                   |                                |
|                                                     |                                   | cfm                          | 4.2 + 4.2                                                                                                                                   |                                | 4.2 + 4.2                                                                                                                                   |                                |
|                                                     | Pressure drop                     | psi                          | 6.38                                                                                                                                        | 6.38                           | 6.38                                                                                                                                        | 6.38                           |
|                                                     |                                   | kPa                          | 44                                                                                                                                          | 44                             | 44                                                                                                                                          | 44                             |
|                                                     | Operating volume range            | G/h                          | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                               |                                | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                               |                                |
| G/min                                               | 19.8 + 19.8 ~ 50.9 + 50.9         |                              | 19.8 + 19.8 ~ 50.9 + 50.9                                                                                                                   |                                |                                                                                                                                             |                                |
| m³/h                                                | 4.5 + 4.5 ~ 11.6 + 11.6           |                              | 4.5 + 4.5 ~ 11.6 + 11.6                                                                                                                     |                                |                                                                                                                                             |                                |
| Compressor                                          | Type x Quantity                   |                              | Inverter scroll hermetic compressor x 1                                                                                                     |                                | Inverter scroll hermetic compressor x 1                                                                                                     |                                |
|                                                     | Starting method                   |                              | Inverter                                                                                                                                    | Inverter                       | Inverter                                                                                                                                    | Inverter                       |
|                                                     | Motor output                      | kW                           | 11.0                                                                                                                                        | 11.0                           | 12.4                                                                                                                                        | 11.0                           |
|                                                     | Case heater                       | kW                           | 0.045                                                                                                                                       | 0.045                          | 0.045                                                                                                                                       | 0.045                          |
| External finish                                     |                                   |                              | Galvanized steel sheets                                                                                                                     |                                | Galvanized steel sheets                                                                                                                     |                                |
| External dimension H x W x D                        | in.                               | 57-1/8 x 34-11/16 x 21-11/16 | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                | 57-1/8 x 34-11/16 x 21-11/16   | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                |                                |
|                                                     | mm                                | 1,450 x 880 x 550            | 1,450 x 880 x 550                                                                                                                           | 1,450 x 880 x 550              | 1,450 x 880 x 550                                                                                                                           |                                |
| Protection devices                                  | High pressure protection          |                              | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                            |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                            |                                |
|                                                     | Inverter circuit                  |                              | Over-heat protection, Over-current protection                                                                                               |                                | Over-heat protection, Over-current protection                                                                                               |                                |
|                                                     | Compressor                        |                              | Over-heat protection                                                                                                                        |                                | Over-heat protection                                                                                                                        |                                |
| Refrigerant                                         | Type x original charge            |                              | R410A x 13 lbs + 4 oz (6.0 kg)                                                                                                              | R410A x 13 lbs + 4 oz (6.0 kg) | R410A x 13 lbs + 4 oz (6.0 kg)                                                                                                              | R410A x 13 lbs + 4 oz (6.0 kg) |
| Net weight                                          | lbs (kg)                          |                              | 499 (226)                                                                                                                                   | 499 (226)                      | 499 (226)                                                                                                                                   | 499 (226)                      |
| Heat exchanger                                      | Water volume in plate             | G                            | plate type                                                                                                                                  | plate type                     | plate type                                                                                                                                  | plate type                     |
|                                                     |                                   | I                            | 1.22                                                                                                                                        | 1.22                           | 1.22                                                                                                                                        | 1.22                           |
|                                                     | Water pressure Max.               | psi                          | 290                                                                                                                                         | 290                            | 290                                                                                                                                         | 290                            |
|                                                     |                                   | MPa                          | 2.0                                                                                                                                         | 2.0                            | 2.0                                                                                                                                         | 2.0                            |
|                                                     | Pipe between unit and distributor | Liquid pipe                  | in. (mm)                                                                                                                                    | 5/8 (15.88) Brazed             | 5/8 (15.88) Brazed                                                                                                                          | 5/8 (15.88) Brazed             |
|                                                     | Gas pipe                          | in. (mm)                     | 1-1/8 (28.58) Brazed                                                                                                                        | 1-1/8 (28.58) Brazed           | 1-1/8 (28.58) Brazed                                                                                                                        | 1-1/8 (28.58) Brazed           |
| Optional parts                                      |                                   |                              | Heat Source Twinning kit: CMY-Y200CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                | Heat Source Twinning kit: CMY-Y200CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2<br>Header: CMY-Y104, 108, 1010C-G |                                |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZLMU-B



## ► Specifications

| Heat Source Model                                |                          |                                                                  | PQRY-P72ZLMU-B                  |                                                                  | PQRY-P96ZLMU-B                                                                                                                                                                                                                                          |                                                                  | PQRY-P120ZLMU-B                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|--------------------------------------------------|--------------------------|------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Indoor Model                                     |                          |                                                                  | Non-Ducted                      |                                                                  | Ducted                                                                                                                                                                                                                                                  |                                                                  | Non-Ducted                                                                                                                                                                                                                                                  |                    | Ducted                                                                                                                                                                                                                                                      |  |
| Power source                                     |                          |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                         |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                             |                    | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                             |  |
| Cooling capacity<br>(Nominal)                    | *1                       | BTU/h                                                            | 72,000                          |                                                                  | 96,000                                                                                                                                                                                                                                                  |                                                                  | 120,000                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | kW                                                               | 21.1                            |                                                                  | 28.1                                                                                                                                                                                                                                                    |                                                                  | 35.2                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (575)                    | Power input                                                      | 3.61                            |                                                                  | 5.21                                                                                                                                                                                                                                                    |                                                                  | 7.51                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Current input                                                    | 4.0                             |                                                                  | 5.8                                                                                                                                                                                                                                                     |                                                                  | 8.3                                                                                                                                                                                                                                                         |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (Rated)                  | BTU/h                                                            | 69,000                          |                                                                  | 92,000                                                                                                                                                                                                                                                  |                                                                  | 115,000                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | kW                                                               | 20.2                            |                                                                  | 27.0                                                                                                                                                                                                                                                    |                                                                  | 33.7                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (575)                    | Power input                                                      | 3.60                            | 3.59                                                             | 5.22                                                                                                                                                                                                                                                    | 5.45                                                             | 7.38                                                                                                                                                                                                                                                        | 7.77               |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Current input                                                    | 4.0                             | 4.0                                                              | 5.8                                                                                                                                                                                                                                                     | 6.0                                                              | 8.2                                                                                                                                                                                                                                                         | 8.6                |                                                                                                                                                                                                                                                             |  |
|                                                  | Temp. range of cooling   | Indoor                                                           | W.B.                            | 59~75°F (15~24°C)                                                |                                                                                                                                                                                                                                                         | 59~75°F (15~24°C)                                                |                                                                                                                                                                                                                                                             | 59~75°F (15~24°C)  |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Inlet water                                                      | °F                              | 50~113°F (10~45°C)                                               |                                                                                                                                                                                                                                                         | 50~113°F (10~45°C)                                               |                                                                                                                                                                                                                                                             | 50~113°F (10~45°C) |                                                                                                                                                                                                                                                             |  |
| Heating capacity<br>(Nominal)                    | *2                       | BTU/h                                                            | 80,000                          |                                                                  | 108,000                                                                                                                                                                                                                                                 |                                                                  | 135,000                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | kW                                                               | 23.4                            |                                                                  | 31.7                                                                                                                                                                                                                                                    |                                                                  | 39.6                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (575)                    | Power input                                                      | 4.04                            |                                                                  | 5.64                                                                                                                                                                                                                                                    |                                                                  | 7.09                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Current input                                                    | 4.5                             |                                                                  | 6.2                                                                                                                                                                                                                                                     |                                                                  | 7.9                                                                                                                                                                                                                                                         |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (Rated)                  | BTU/h                                                            | 76,000                          |                                                                  | 103,000                                                                                                                                                                                                                                                 |                                                                  | 129,000                                                                                                                                                                                                                                                     |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | kW                                                               | 22.3                            |                                                                  | 30.2                                                                                                                                                                                                                                                    |                                                                  | 37.8                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | (575)                    | Power input                                                      | 3.78                            | 3.36                                                             | 4.49                                                                                                                                                                                                                                                    | 4.48                                                             | 5.78                                                                                                                                                                                                                                                        | 5.89               |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Current input                                                    | 4.2                             | 3.7                                                              | 5.0                                                                                                                                                                                                                                                     | 4.9                                                              | 6.4                                                                                                                                                                                                                                                         | 6.5                |                                                                                                                                                                                                                                                             |  |
|                                                  | Temp. range of heating   | Indoor                                                           | D.B.                            | 59~81°F (15~27°C)                                                |                                                                                                                                                                                                                                                         | 59~81°F (15~27°C)                                                |                                                                                                                                                                                                                                                             | 59~81°F (15~27°C)  |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Inlet water                                                      | °F                              | 50~113°F (10~45°C)                                               |                                                                                                                                                                                                                                                         | 50~113°F (10~45°C)                                               |                                                                                                                                                                                                                                                             | 50~113°F (10~45°C) |                                                                                                                                                                                                                                                             |  |
| Indoor unit connectable                          | Total capacity           | 50~150% of heat source unit capacity                             |                                 | 50~150% of heat source unit capacity                             |                                                                                                                                                                                                                                                         | 50~150% of heat source unit capacity                             |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Model/Quantity           | P04~P96/1~18                                                     |                                 | P04~P96/1~24                                                     |                                                                                                                                                                                                                                                         | P04~P96/1~30                                                     |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                                                           | 60.5                            |                                                                  | 65.0                                                                                                                                                                                                                                                    |                                                                  | 71.0                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
| Refrigerant                                      | High pressure            | in. (mm)                                                         | 5/8 (15.88) Brazed              |                                                                  | 3/4 (19.05) Brazed                                                                                                                                                                                                                                      |                                                                  | 3/4 (19.05) Brazed                                                                                                                                                                                                                                          |                    |                                                                                                                                                                                                                                                             |  |
| piping diameter                                  | Low pressure             | in. (mm)                                                         | 3/4 (19.05) Brazed              |                                                                  | 7/8 (22.2) Brazed                                                                                                                                                                                                                                       |                                                                  | 7/8 (22.2) Brazed                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                                             |  |
| Minimum Circuit Ampacity                         |                          | A                                                                | 6                               |                                                                  | 9                                                                                                                                                                                                                                                       |                                                                  | 13                                                                                                                                                                                                                                                          |                    |                                                                                                                                                                                                                                                             |  |
| Maximum Overcurrent Protection                   |                          | A                                                                | 15                              |                                                                  | 15                                                                                                                                                                                                                                                      |                                                                  | 20                                                                                                                                                                                                                                                          |                    |                                                                                                                                                                                                                                                             |  |
| Inlet water                                      | Water flow rate          | G/h                                                              | 1,440                           |                                                                  | 1,522                                                                                                                                                                                                                                                   |                                                                  | 1,522                                                                                                                                                                                                                                                       |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | G / min                                                          | 24                              |                                                                  | 25.4                                                                                                                                                                                                                                                    |                                                                  | 25.4                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | m³/h                                                             | 5.45                            |                                                                  | 5.76                                                                                                                                                                                                                                                    |                                                                  | 5.76                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | L/min                                                            | 91                              |                                                                  | 96                                                                                                                                                                                                                                                      |                                                                  | 96                                                                                                                                                                                                                                                          |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | cfm                                                              | 3.2                             |                                                                  | 3.4                                                                                                                                                                                                                                                     |                                                                  | 3.4                                                                                                                                                                                                                                                         |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Pressure drop            | psi                                                              | 3.48                            |                                                                  | 3.48                                                                                                                                                                                                                                                    |                                                                  | 3.48                                                                                                                                                                                                                                                        |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | kPa                                                              | 24                              |                                                                  | 24                                                                                                                                                                                                                                                      |                                                                  | 24                                                                                                                                                                                                                                                          |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Operating volume range   | G/h                                                              | 793 ~ 1,902                     |                                                                  | 793 ~ 1,902                                                                                                                                                                                                                                             |                                                                  | 793 ~ 1,902                                                                                                                                                                                                                                                 |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | G / min                                                          | 13.2 ~ 31.7                     |                                                                  | 13.2 ~ 31.7                                                                                                                                                                                                                                             |                                                                  | 13.2 ~ 31.7                                                                                                                                                                                                                                                 |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | m³/h                                                             | 3.0 ~ 7.2                       |                                                                  | 3.0 ~ 7.2                                                                                                                                                                                                                                               |                                                                  | 3.0 ~ 7.2                                                                                                                                                                                                                                                   |                    |                                                                                                                                                                                                                                                             |  |
| Compressor                                       | Type x Quantity          | Inverter scroll hermetic compressor x 1                          |                                 | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                                                         | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Starting method          | Inverter                                                         |                                 | Inverter                                                         |                                                                                                                                                                                                                                                         | Inverter                                                         |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Motor output             | kW                                                               |                                 | 6.0                                                              |                                                                                                                                                                                                                                                         | 7.7                                                              |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Case heater              | kW                                                               |                                 | 0.035                                                            |                                                                                                                                                                                                                                                         | 0.035                                                            |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
| External finish                                  |                          | Galvanized steel sheets                                          |                                 | Galvanized steel sheets                                          |                                                                                                                                                                                                                                                         | Galvanized steel sheets                                          |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
| External dimension H x W x D                     |                          | in.                                                              | 43-5/16 x 34-11/16 x 21-11/16   |                                                                  | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                           |                                                                  | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                               |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | mm                                                               | 1,100 x 880 x 550               |                                                                  | 1,100 x 880 x 550                                                                                                                                                                                                                                       |                                                                  | 1,100 x 880 x 550                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                                             |  |
| Protection devices                               | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                 | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Inverter circuit         | Over-heat protection, Over-current protection                    |                                 | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                                                         | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  | Compressor               | Over-heat protection                                             |                                 | Over-heat protection                                             |                                                                                                                                                                                                                                                         | Over-heat protection                                             |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
| Refrigerant                                      | Type x original charge   | R410A x 11 lbs + 1 oz (5.0 kg)                                   |                                 | R410A x 11 lbs + 1 oz (5.0 kg)                                   |                                                                                                                                                                                                                                                         | R410A x 11 lbs + 1 oz (5.0 kg)                                   |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
| Net weight                                       |                          | lbs (kg)                                                         | 406 (184)                       |                                                                  | 406 (184)                                                                                                                                                                                                                                               |                                                                  | 406 (184)                                                                                                                                                                                                                                                   |                    |                                                                                                                                                                                                                                                             |  |
| Heat exchanger                                   | Water volume in plate    | G                                                                | plate type                      |                                                                  | plate type                                                                                                                                                                                                                                              |                                                                  | plate type                                                                                                                                                                                                                                                  |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          |                                                                  | 1.22                            |                                                                  | 1.22                                                                                                                                                                                                                                                    |                                                                  |                                                                                                                                                                                                                                                             |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | I                                                                | 4.6                             |                                                                  | 4.6                                                                                                                                                                                                                                                     |                                                                  | 4.6                                                                                                                                                                                                                                                         |                    |                                                                                                                                                                                                                                                             |  |
|                                                  |                          |                                                                  | psi                             | 290                                                              |                                                                                                                                                                                                                                                         | 290                                                              |                                                                                                                                                                                                                                                             | 290                |                                                                                                                                                                                                                                                             |  |
|                                                  |                          | Max.                                                             |                                 | MPa                                                              |                                                                                                                                                                                                                                                         | 2.0                                                              |                                                                                                                                                                                                                                                             | 2.0                |                                                                                                                                                                                                                                                             |  |
|                                                  |                          |                                                                  | Optional parts                  |                                                                  | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,301,306S-G,CMY-R302,303,304,305S-G1<br>BC controller: CMB-P104,106,108,1012,1016NU-J2<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                                                  | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,301,306S-G,CMY-R302,303,304,305S-G1<br>BC controller: CMB-P104,106,108,1012,1016NU-J2<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                    | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,301,306S-G,CMY-R302,303,304,305S-G1<br>BC controller: CMB-P104,106,108,1012,1016NU-J2<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZLMU-B



## ► Specifications

| Heat Source Model                                |               |                          | PQRY-P144ZLMU-B                                                                                                                                                                                         |                                                                  | PQRY-P168ZLMU-B                                                                                                                                                                                                 |                                                                  | PQRY-P192ZLMU-B                                                                                                                                                                                                 |                                                                  |                                      |  |       |  |
|--------------------------------------------------|---------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|--|-------|--|
| Indoor Model                                     |               |                          | Non-Ducted                                                                                                                                                                                              |                                                                  | Ducted                                                                                                                                                                                                          |                                                                  | Non-Ducted                                                                                                                                                                                                      |                                                                  | Ducted                               |  |       |  |
| Power source                                     |               |                          | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                         |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                 |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                 |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz      |  |       |  |
| Cooling capacity (Nominal)                       |               | *1                       | BTU/h                                                                                                                                                                                                   |                                                                  | 144,000                                                                                                                                                                                                         |                                                                  | 168,000                                                                                                                                                                                                         |                                                                  | 192,000                              |  |       |  |
|                                                  |               | *1                       | kW                                                                                                                                                                                                      |                                                                  | 42.2                                                                                                                                                                                                            |                                                                  | 49.2                                                                                                                                                                                                            |                                                                  | 56.3                                 |  |       |  |
| (575)                                            |               | Power input              | kW                                                                                                                                                                                                      |                                                                  | 8.78                                                                                                                                                                                                            |                                                                  | 12.05                                                                                                                                                                                                           |                                                                  | 15.05                                |  |       |  |
|                                                  |               | Current input            | A                                                                                                                                                                                                       |                                                                  | 9.7                                                                                                                                                                                                             |                                                                  | 13.4                                                                                                                                                                                                            |                                                                  | 16.7                                 |  |       |  |
| (Rated)                                          |               |                          | BTU/h                                                                                                                                                                                                   |                                                                  | 138,000                                                                                                                                                                                                         |                                                                  | 160,000                                                                                                                                                                                                         |                                                                  | 184,000                              |  |       |  |
|                                                  |               |                          | kW                                                                                                                                                                                                      |                                                                  | 40.4                                                                                                                                                                                                            |                                                                  | 46.9                                                                                                                                                                                                            |                                                                  | 53.9                                 |  |       |  |
| (575)                                            |               | Power input              | kW                                                                                                                                                                                                      |                                                                  | 9.44                                                                                                                                                                                                            |                                                                  | 10.12                                                                                                                                                                                                           |                                                                  | 11.98                                |  | 12.47 |  |
|                                                  |               | Current input            | A                                                                                                                                                                                                       |                                                                  | 10.5                                                                                                                                                                                                            |                                                                  | 11.2                                                                                                                                                                                                            |                                                                  | 13.3                                 |  | 13.9  |  |
| Temp. range of cooling                           |               | Indoor                   | W.B.                                                                                                                                                                                                    |                                                                  | 59~75°F (15~24°C)                                                                                                                                                                                               |                                                                  | 59~75°F (15~24°C)                                                                                                                                                                                               |                                                                  | 59~75°F (15~24°C)                    |  |       |  |
|                                                  |               | Inlet water              | °F                                                                                                                                                                                                      |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                              |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                              |                                                                  | 50~113°F (10~45°C)                   |  |       |  |
| Heating capacity (Nominal)                       |               | *2                       | BTU/h                                                                                                                                                                                                   |                                                                  | 160,000                                                                                                                                                                                                         |                                                                  | 188,000                                                                                                                                                                                                         |                                                                  | 215,000                              |  |       |  |
|                                                  |               | *2                       | kW                                                                                                                                                                                                      |                                                                  | 46.9                                                                                                                                                                                                            |                                                                  | 55.1                                                                                                                                                                                                            |                                                                  | 63.0                                 |  |       |  |
| (575)                                            |               | Power input              | kW                                                                                                                                                                                                      |                                                                  | 8.11                                                                                                                                                                                                            |                                                                  | 9.86                                                                                                                                                                                                            |                                                                  | 11.90                                |  |       |  |
|                                                  |               | Current input            | A                                                                                                                                                                                                       |                                                                  | 9.0                                                                                                                                                                                                             |                                                                  | 11.0                                                                                                                                                                                                            |                                                                  | 13.2                                 |  |       |  |
| (Rated)                                          |               |                          | BTU/h                                                                                                                                                                                                   |                                                                  | 152,000                                                                                                                                                                                                         |                                                                  | 178,000                                                                                                                                                                                                         |                                                                  | 204,000                              |  |       |  |
|                                                  |               |                          | kW                                                                                                                                                                                                      |                                                                  | 44.5                                                                                                                                                                                                            |                                                                  | 52.2                                                                                                                                                                                                            |                                                                  | 59.8                                 |  |       |  |
| (575)                                            |               | Power input              | kW                                                                                                                                                                                                      |                                                                  | 7.29                                                                                                                                                                                                            |                                                                  | 7.92                                                                                                                                                                                                            |                                                                  | 8.86                                 |  | 9.66  |  |
|                                                  |               | Current input            | A                                                                                                                                                                                                       |                                                                  | 8.1                                                                                                                                                                                                             |                                                                  | 8.8                                                                                                                                                                                                             |                                                                  | 9.8                                  |  | 10.7  |  |
| Temp. range of heating                           |               | Indoor                   | D.B.                                                                                                                                                                                                    |                                                                  | 59~81°F (15~27°C)                                                                                                                                                                                               |                                                                  | 59~81°F (15~27°C)                                                                                                                                                                                               |                                                                  | 59~81°F (15~27°C)                    |  |       |  |
|                                                  |               | Inlet water              | °F                                                                                                                                                                                                      |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                              |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                              |                                                                  | 50~113°F (10~45°C)                   |  |       |  |
| Indoor unit connectable                          |               | Total capacity           |                                                                                                                                                                                                         |                                                                  | 50~150% of heat source unit capacity                                                                                                                                                                            |                                                                  | 50~150% of heat source unit capacity                                                                                                                                                                            |                                                                  | 50~150% of heat source unit capacity |  |       |  |
|                                                  |               | Model/Quantity           |                                                                                                                                                                                                         |                                                                  | P04~P96/1~36                                                                                                                                                                                                    |                                                                  | P04~P96/1~42                                                                                                                                                                                                    |                                                                  | P04~P96/1~48                         |  |       |  |
| Sound pressure level (measured in anechoic room) |               | dB <A>                   |                                                                                                                                                                                                         |                                                                  | 68.0                                                                                                                                                                                                            |                                                                  | 70.0                                                                                                                                                                                                            |                                                                  | 72.0                                 |  |       |  |
| Refrigerant                                      | High pressure | in. (mm)                 | 7/8 (22.2) Braze                                                                                                                                                                                        |                                                                  | 7/8 (22.2) Braze                                                                                                                                                                                                |                                                                  | 7/8 (22.2) Braze                                                                                                                                                                                                |                                                                  | 7/8 (22.2) Braze                     |  |       |  |
| piping diameter                                  | Low pressure  | in. (mm)                 | 1-1/8 (28.58) Braze                                                                                                                                                                                     |                                                                  | 1-1/8 (28.58) Braze                                                                                                                                                                                             |                                                                  | 1-1/8 (28.58) Braze                                                                                                                                                                                             |                                                                  | 1-1/8 (28.58) Braze                  |  |       |  |
| Minimum Circuit Ampacity                         |               | A                        | 15                                                                                                                                                                                                      |                                                                  | 21                                                                                                                                                                                                              |                                                                  | 26                                                                                                                                                                                                              |                                                                  | 26                                   |  |       |  |
| Maximum Overcurrent Protection                   |               | A                        | 25                                                                                                                                                                                                      |                                                                  | 35                                                                                                                                                                                                              |                                                                  | 45                                                                                                                                                                                                              |                                                                  | 45                                   |  |       |  |
| Inlet water                                      |               | Water flow rate          | G/h                                                                                                                                                                                                     | 1,902                                                            |                                                                                                                                                                                                                 | 1,902                                                            |                                                                                                                                                                                                                 | 1,902                                                            |                                      |  |       |  |
|                                                  |               |                          | G / min                                                                                                                                                                                                 | 31.7                                                             |                                                                                                                                                                                                                 | 31.7                                                             |                                                                                                                                                                                                                 | 31.7                                                             |                                      |  |       |  |
|                                                  |               |                          | m³/h                                                                                                                                                                                                    | 7.20                                                             |                                                                                                                                                                                                                 | 7.20                                                             |                                                                                                                                                                                                                 | 7.20                                                             |                                      |  |       |  |
|                                                  |               |                          | L/min                                                                                                                                                                                                   | 120                                                              |                                                                                                                                                                                                                 | 120                                                              |                                                                                                                                                                                                                 | 120                                                              |                                      |  |       |  |
|                                                  |               |                          | cfm                                                                                                                                                                                                     | 4.2                                                              |                                                                                                                                                                                                                 | 4.2                                                              |                                                                                                                                                                                                                 | 4.2                                                              |                                      |  |       |  |
|                                                  |               | Pressure drop            | psi                                                                                                                                                                                                     | 6.38                                                             |                                                                                                                                                                                                                 | 6.38                                                             |                                                                                                                                                                                                                 | 6.38                                                             |                                      |  |       |  |
|                                                  |               |                          | kPa                                                                                                                                                                                                     | 44                                                               |                                                                                                                                                                                                                 | 44                                                               |                                                                                                                                                                                                                 | 44                                                               |                                      |  |       |  |
|                                                  |               |                          | Operating volume range                                                                                                                                                                                  | G/h                                                              | 1,189 ~ 3,054                                                                                                                                                                                                   |                                                                  | 1,189 ~ 3,054                                                                                                                                                                                                   |                                                                  | 1,189 ~ 3,054                        |  |       |  |
|                                                  |               | G / min                  | 19.8 ~ 50.9                                                                                                                                                                                             |                                                                  | 19.8 ~ 50.9                                                                                                                                                                                                     |                                                                  | 19.8 ~ 50.9                                                                                                                                                                                                     |                                                                  |                                      |  |       |  |
|                                                  |               | m³/h                     | 4.5 ~ 11.6                                                                                                                                                                                              |                                                                  | 4.5 ~ 11.6                                                                                                                                                                                                      |                                                                  | 4.5 ~ 11.6                                                                                                                                                                                                      |                                                                  |                                      |  |       |  |
| Compressor                                       |               | Type x Quantity          |                                                                                                                                                                                                         | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                 | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                 | Inverter scroll hermetic compressor x 1                          |                                      |  |       |  |
|                                                  |               | Starting method          |                                                                                                                                                                                                         | Inverter                                                         |                                                                                                                                                                                                                 | Inverter                                                         |                                                                                                                                                                                                                 | Inverter                                                         |                                      |  |       |  |
|                                                  |               | Motor output             | kW                                                                                                                                                                                                      | 9.5                                                              |                                                                                                                                                                                                                 | 11.0                                                             |                                                                                                                                                                                                                 | 12.4                                                             |                                      |  |       |  |
|                                                  |               | Case heater              | kW                                                                                                                                                                                                      | 0.045                                                            |                                                                                                                                                                                                                 | 0.045                                                            |                                                                                                                                                                                                                 | 0.045                                                            |                                      |  |       |  |
| External finish                                  |               |                          | Galvanized steel sheets                                                                                                                                                                                 |                                                                  | Galvanized steel sheets                                                                                                                                                                                         |                                                                  | Galvanized steel sheets                                                                                                                                                                                         |                                                                  |                                      |  |       |  |
| External dimension H x W x D                     |               | in.                      | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                            |                                                                  | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                                    |                                                                  | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                                    |                                                                  |                                      |  |       |  |
|                                                  |               | mm                       | 1,450 x 880 x 550                                                                                                                                                                                       |                                                                  | 1,450 x 880 x 550                                                                                                                                                                                               |                                                                  | 1,450 x 880 x 550                                                                                                                                                                                               |                                                                  |                                      |  |       |  |
| Protection devices                               |               | High pressure protection |                                                                                                                                                                                                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                 | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                 | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                      |  |       |  |
|                                                  |               | Inverter circuit         |                                                                                                                                                                                                         | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                 | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                 | Over-heat protection, Over-current protection                    |                                      |  |       |  |
|                                                  |               | Compressor               |                                                                                                                                                                                                         | Over-heat protection                                             |                                                                                                                                                                                                                 | Over-heat protection                                             |                                                                                                                                                                                                                 | Over-heat protection                                             |                                      |  |       |  |
| Refrigerant                                      |               | Type x original charge   |                                                                                                                                                                                                         | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                                                                                                                                                 | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                                                                                                                                                                                                 | R410A x 13 lbs + 4 oz (6.0 kg)                                   |                                      |  |       |  |
| Net weight                                       |               | lbs (kg)                 | 510 (231)                                                                                                                                                                                               |                                                                  | 510 (231)                                                                                                                                                                                                       |                                                                  | 510 (231)                                                                                                                                                                                                       |                                                                  |                                      |  |       |  |
| Heat exchanger                                   |               |                          |                                                                                                                                                                                                         | plate type                                                       |                                                                                                                                                                                                                 | plate type                                                       |                                                                                                                                                                                                                 | plate type                                                       |                                      |  |       |  |
|                                                  |               | Water volume in plate    | G                                                                                                                                                                                                       | 1.22                                                             |                                                                                                                                                                                                                 | 1.22                                                             |                                                                                                                                                                                                                 | 1.22                                                             |                                      |  |       |  |
|                                                  |               |                          | l                                                                                                                                                                                                       | 4.6                                                              |                                                                                                                                                                                                                 | 4.6                                                              |                                                                                                                                                                                                                 | 4.6                                                              |                                      |  |       |  |
|                                                  |               | Water pressure           | psi                                                                                                                                                                                                     | 290                                                              |                                                                                                                                                                                                                 | 290                                                              |                                                                                                                                                                                                                 | 290                                                              |                                      |  |       |  |
| Max.                                             |               | MPa                      | 2.0                                                                                                                                                                                                     |                                                                  | 2.0                                                                                                                                                                                                             |                                                                  | 2.0                                                                                                                                                                                                             |                                                                  |                                      |  |       |  |
| Optional parts                                   |               |                          | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,306S-G, CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                                                  | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                                                  | joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1, CMY-R201,202,203,204,306S-G, CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                                                  |                                      |  |       |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                |                          |                                                                  | PQRY-P144ZSLMU-B                                                                                                                                                                                                                                               |                                                                  | PQRY-P168ZSLMU-B                                                                                                                                                                                                                                                         |                               |
|--------------------------------------------------|--------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Indoor Model                                     |                          |                                                                  | Non-Ducted                                                                                                                                                                                                                                                     |                                                                  | Ducted                                                                                                                                                                                                                                                                   |                               |
| Power source                                     |                          |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                |                                                                  | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                          |                               |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                                                            | 144,000                                                                                                                                                                                                                                                        |                                                                  | 168,000                                                                                                                                                                                                                                                                  |                               |
|                                                  | *1                       | kW                                                               | 42.2                                                                                                                                                                                                                                                           |                                                                  | 49.2                                                                                                                                                                                                                                                                     |                               |
| (575)                                            | Power input              | kW                                                               | 7.11                                                                                                                                                                                                                                                           |                                                                  | 9.33                                                                                                                                                                                                                                                                     |                               |
|                                                  | Current input            | A                                                                | 7.9                                                                                                                                                                                                                                                            |                                                                  | 10.4                                                                                                                                                                                                                                                                     |                               |
| (Rated)                                          |                          | BTU/h                                                            | 138,000                                                                                                                                                                                                                                                        |                                                                  | 160,000                                                                                                                                                                                                                                                                  |                               |
|                                                  |                          | kW                                                               | 40.4                                                                                                                                                                                                                                                           |                                                                  | 46.9                                                                                                                                                                                                                                                                     |                               |
| (575)                                            | Power input              | kW                                                               | 6.96                                                                                                                                                                                                                                                           | 8.17                                                             | 8.87                                                                                                                                                                                                                                                                     | 9.66                          |
|                                                  | Current input            | A                                                                | 7.7                                                                                                                                                                                                                                                            | 9.1                                                              | 9.8                                                                                                                                                                                                                                                                      | 10.7                          |
| Temp. range of cooling                           | Indoor                   | W.B.                                                             | 59~75°F (15~24°C)                                                                                                                                                                                                                                              |                                                                  | 59~75°F (15~24°C)                                                                                                                                                                                                                                                        |                               |
|                                                  | Inlet water              | °F                                                               | 50~113°F (10~45°C)                                                                                                                                                                                                                                             |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                                                                                       |                               |
| Heating capacity (Nominal)                       | *2                       | BTU/h                                                            | 160,000                                                                                                                                                                                                                                                        |                                                                  | 188,000                                                                                                                                                                                                                                                                  |                               |
|                                                  | *2                       | kW                                                               | 46.9                                                                                                                                                                                                                                                           |                                                                  | 55.1                                                                                                                                                                                                                                                                     |                               |
| (575)                                            | Power input              | kW                                                               | 7.45                                                                                                                                                                                                                                                           |                                                                  | 9.34                                                                                                                                                                                                                                                                     |                               |
|                                                  | Current input            | A                                                                | 8.3                                                                                                                                                                                                                                                            |                                                                  | 10.4                                                                                                                                                                                                                                                                     |                               |
| (Rated)                                          |                          | BTU/h                                                            | 152,000                                                                                                                                                                                                                                                        |                                                                  | 178,000                                                                                                                                                                                                                                                                  |                               |
|                                                  |                          | kW                                                               | 44.5                                                                                                                                                                                                                                                           |                                                                  | 52.2                                                                                                                                                                                                                                                                     |                               |
| (575)                                            | Power input              | kW                                                               | 6.50                                                                                                                                                                                                                                                           | 7.29                                                             | 8.05                                                                                                                                                                                                                                                                     | 8.04                          |
|                                                  | Current input            | A                                                                | 7.2                                                                                                                                                                                                                                                            | 8.1                                                              | 8.9                                                                                                                                                                                                                                                                      | 8.9                           |
| Temp. range of heating                           | Indoor                   | D.B.                                                             | 59~81°F (15~27°C)                                                                                                                                                                                                                                              |                                                                  | 59~81°F (15~27°C)                                                                                                                                                                                                                                                        |                               |
|                                                  | Inlet water              | °F                                                               | 50~113°F (10~45°C)                                                                                                                                                                                                                                             |                                                                  | 50~113°F (10~45°C)                                                                                                                                                                                                                                                       |                               |
| Indoor unit connectable                          | Total capacity           | 50~150% of heat source unit capacity                             |                                                                                                                                                                                                                                                                | 50~150% of heat source unit capacity                             |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Model/Quantity           | P04~P96/1~36                                                     |                                                                                                                                                                                                                                                                | P04~P96/1~42                                                     |                                                                                                                                                                                                                                                                          |                               |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                                                           | 63.5                                                                                                                                                                                                                                                           |                                                                  | 66.5                                                                                                                                                                                                                                                                     |                               |
| Refrigerant                                      | High pressure            | in. (mm)                                                         | 7/8 (22.2) Brazed                                                                                                                                                                                                                                              |                                                                  | 7/8 (22.2) Brazed                                                                                                                                                                                                                                                        |                               |
| piping diameter                                  | Low pressure             | in. (mm)                                                         | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                           |                                                                  | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                                     |                               |
| Set Model                                        |                          |                                                                  |                                                                                                                                                                                                                                                                |                                                                  |                                                                                                                                                                                                                                                                          |                               |
| Model                                            |                          |                                                                  | PQRY-P72ZLMU-B                                                                                                                                                                                                                                                 |                                                                  | PQRY-P72ZLMU-B                                                                                                                                                                                                                                                           |                               |
| Minimum Circuit Ampacity                         |                          |                                                                  | A                                                                                                                                                                                                                                                              |                                                                  | A                                                                                                                                                                                                                                                                        |                               |
| Maximum Overcurrent Protection                   |                          |                                                                  | A                                                                                                                                                                                                                                                              |                                                                  | A                                                                                                                                                                                                                                                                        |                               |
| Inlet water                                      | Water flow rate          | G/h                                                              | 1,522 + 1,522                                                                                                                                                                                                                                                  |                                                                  | 1,522 + 1,522                                                                                                                                                                                                                                                            |                               |
|                                                  |                          | G / min                                                          | 25.4 + 25.4                                                                                                                                                                                                                                                    |                                                                  | 25.4 + 25.4                                                                                                                                                                                                                                                              |                               |
|                                                  |                          | m³/h                                                             | 5.76 + 5.76                                                                                                                                                                                                                                                    |                                                                  | 5.76 + 5.76                                                                                                                                                                                                                                                              |                               |
|                                                  |                          | L/min                                                            | 96 + 96                                                                                                                                                                                                                                                        |                                                                  | 96 + 96                                                                                                                                                                                                                                                                  |                               |
|                                                  |                          | cfm                                                              | 3.4 + 3.4                                                                                                                                                                                                                                                      |                                                                  | 3.4 + 3.4                                                                                                                                                                                                                                                                |                               |
|                                                  | Pressure drop            | psi                                                              | 3.48                                                                                                                                                                                                                                                           |                                                                  | 3.48                                                                                                                                                                                                                                                                     |                               |
|                                                  |                          | kPa                                                              | 24                                                                                                                                                                                                                                                             |                                                                  | 24                                                                                                                                                                                                                                                                       |                               |
|                                                  | Operating volume range   | G/h                                                              | 793 + 793 ~ 1,902 + 1,902                                                                                                                                                                                                                                      |                                                                  | 793 + 793 ~ 1,902 + 1,902                                                                                                                                                                                                                                                |                               |
| G / min                                          |                          | 13.2 + 13.2 ~ 31.7 + 31.7                                        |                                                                                                                                                                                                                                                                | 13.2 + 13.2 ~ 31.7 + 31.7                                        |                                                                                                                                                                                                                                                                          |                               |
| Compressor                                       | Type x Quantity          | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                                                                | Inverter scroll hermetic compressor x 1                          |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Starting method          | Inverter                                                         |                                                                                                                                                                                                                                                                | Inverter                                                         |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Motor output             | kW                                                               |                                                                                                                                                                                                                                                                | kW                                                               |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Case heater              | kW                                                               |                                                                                                                                                                                                                                                                | kW                                                               |                                                                                                                                                                                                                                                                          |                               |
| External finish                                  |                          |                                                                  | Galvanized steel sheets                                                                                                                                                                                                                                        |                                                                  | Galvanized steel sheets                                                                                                                                                                                                                                                  |                               |
| External dimension H x W x D                     |                          |                                                                  | in.                                                                                                                                                                                                                                                            | 43-5/16 x 34-11/16 x 21-11/16                                    | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                                            | 43-5/16 x 34-11/16 x 21-11/16 |
|                                                  |                          |                                                                  | mm                                                                                                                                                                                                                                                             | 1,100 x 880 x 550                                                | 1,100 x 880 x 550                                                                                                                                                                                                                                                        | 1,100 x 880 x 550             |
| Protection devices                               | High pressure protection | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                                                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Inverter circuit         | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                                                                | Over-heat protection, Over-current protection                    |                                                                                                                                                                                                                                                                          |                               |
|                                                  | Compressor               | Over-heat protection                                             |                                                                                                                                                                                                                                                                | Over-heat protection                                             |                                                                                                                                                                                                                                                                          |                               |
| Refrigerant                                      | Type x original charge   | R410A x 11 lbs + 1 oz (5.0 kg)                                   | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                                                                                                                                                 | R410A x 11 lbs + 1 oz (5.0 kg)                                   | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                                                                                                                                                           |                               |
| Net weight                                       | lbs (kg)                 | 406 (184)                                                        | 406 (184)                                                                                                                                                                                                                                                      | 406 (184)                                                        | 406 (184)                                                                                                                                                                                                                                                                |                               |
| Heat exchanger                                   |                          | plate type                                                       | plate type                                                                                                                                                                                                                                                     | plate type                                                       | plate type                                                                                                                                                                                                                                                               |                               |
|                                                  |                          | Water volume in plate                                            | G                                                                                                                                                                                                                                                              | 1.22                                                             | 1.22                                                                                                                                                                                                                                                                     |                               |
|                                                  |                          |                                                                  | l                                                                                                                                                                                                                                                              | 4.6                                                              | 4.6                                                                                                                                                                                                                                                                      |                               |
|                                                  |                          | Water pressure Max.                                              | psi                                                                                                                                                                                                                                                            | 290                                                              | 290                                                                                                                                                                                                                                                                      |                               |
| Pipe between unit and distributor                | High pressure            | in. (mm)                                                         | 5/8 (15.88) Brazed                                                                                                                                                                                                                                             | 5/8 (15.88) Brazed                                               | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                       |                               |
|                                                  | Low pressure             | in. (mm)                                                         | -                                                                                                                                                                                                                                                              | 3/4 (19.05) Brazed                                               | -                                                                                                                                                                                                                                                                        |                               |
| Optional parts                                   |                          |                                                                  | Heat Source Twinning kit: CMY-Q100CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1,<br>CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |                                                                  | Heat Source Twinning kit: CMY-Q100CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1,<br>CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |                               |

### Notes:

\*1, \*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).



# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                |                          |                           | PQRY-P192ZSLMU-B                                                                                                                                                                                                                                                     |  |                                |                           | PQRY-P216ZSLMU-B                                                                                                                                                                                                                                                     |  |                                |  |  |
|--------------------------------------------------|--------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|--|
| Indoor Model                                     |                          |                           | Non-Ducted                                                                                                                                                                                                                                                           |  | Ducted                         |                           | Non-Ducted                                                                                                                                                                                                                                                           |  | Ducted                         |  |  |
| Power source                                     |                          |                           | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                      |  |                                |                           | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                      |  |                                |  |  |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                     | 192,000                                                                                                                                                                                                                                                              |  |                                |                           | 216,000                                                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  | *1                       | kW                        | 56.3                                                                                                                                                                                                                                                                 |  |                                |                           | 63.3                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (575)                                            | Power input              | kW                        | 11.30                                                                                                                                                                                                                                                                |  |                                |                           | 14.03                                                                                                                                                                                                                                                                |  |                                |  |  |
|                                                  | Current input            | A                         | 12.6                                                                                                                                                                                                                                                                 |  |                                |                           | 15.6                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (Rated)                                          |                          | BTU/h                     | 184,000                                                                                                                                                                                                                                                              |  |                                |                           | 206,000                                                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  |                          | kW                        | 53.9                                                                                                                                                                                                                                                                 |  |                                |                           | 60.4                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (575)                                            | Power input              | kW                        | 10.57                                                                                                                                                                                                                                                                |  | 11.54                          |                           | 13.09                                                                                                                                                                                                                                                                |  | 13.88                          |  |  |
|                                                  | Current input            | A                         | 11.7                                                                                                                                                                                                                                                                 |  | 12.8                           |                           | 14.6                                                                                                                                                                                                                                                                 |  | 15.4                           |  |  |
| Temp. range of cooling                           | Indoor                   | W.B.                      | 59~75°F (15~24°C)                                                                                                                                                                                                                                                    |  |                                |                           | 59~75°F (15~24°C)                                                                                                                                                                                                                                                    |  |                                |  |  |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                                                                                                                                                                                                   |  |                                |                           | 50~113°F (10~45°C)                                                                                                                                                                                                                                                   |  |                                |  |  |
| Heating capacity (Nominal)                       | *2                       | BTU/h                     | 215,000                                                                                                                                                                                                                                                              |  |                                |                           | 243,000                                                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  | *2                       | kW                        | 63.0                                                                                                                                                                                                                                                                 |  |                                |                           | 71.2                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (575)                                            | Power input              | kW                        | 11.02                                                                                                                                                                                                                                                                |  |                                |                           | 12.88                                                                                                                                                                                                                                                                |  |                                |  |  |
|                                                  | Current input            | A                         | 12.2                                                                                                                                                                                                                                                                 |  |                                |                           | 14.3                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (Rated)                                          |                          | BTU/h                     | 204,000                                                                                                                                                                                                                                                              |  |                                |                           | 232,000                                                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  |                          | kW                        | 59.8                                                                                                                                                                                                                                                                 |  |                                |                           | 68.0                                                                                                                                                                                                                                                                 |  |                                |  |  |
| (575)                                            | Power input              | kW                        | 9.53                                                                                                                                                                                                                                                                 |  | 8.82                           |                           | 11.11                                                                                                                                                                                                                                                                |  | 10.04                          |  |  |
|                                                  | Current input            | A                         | 10.6                                                                                                                                                                                                                                                                 |  | 9.8                            |                           | 12.3                                                                                                                                                                                                                                                                 |  | 11.2                           |  |  |
| Temp. range of heating                           | Indoor                   | D.B.                      | 59~81°F (15~27°C)                                                                                                                                                                                                                                                    |  |                                |                           | 59~81°F (15~27°C)                                                                                                                                                                                                                                                    |  |                                |  |  |
|                                                  | Inlet water              | °F                        | 50~113°F (10~45°C)                                                                                                                                                                                                                                                   |  |                                |                           | 50~113°F (10~45°C)                                                                                                                                                                                                                                                   |  |                                |  |  |
| Indoor unit connectable                          | Total capacity           |                           | 50~150% of heat source unit capacity                                                                                                                                                                                                                                 |  |                                |                           | 50~150% of heat source unit capacity                                                                                                                                                                                                                                 |  |                                |  |  |
|                                                  | Model/Quantity           |                           | P04~P96/1~48                                                                                                                                                                                                                                                         |  |                                |                           | P04~P96/2~50 (Connectable branch pipe number is max. 48.)                                                                                                                                                                                                            |  |                                |  |  |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                    | 68.0                                                                                                                                                                                                                                                                 |  |                                |                           | 72.0                                                                                                                                                                                                                                                                 |  |                                |  |  |
| Refrigerant                                      | High pressure            | in. (mm)                  | 7/8 (22.2) Brazed                                                                                                                                                                                                                                                    |  |                                |                           | 7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)                                                                                                                                                                                              |  |                                |  |  |
| piping diameter                                  | Low pressure             | in. (mm)                  | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                                 |  |                                |                           | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                                 |  |                                |  |  |
| Set Model                                        |                          |                           |                                                                                                                                                                                                                                                                      |  |                                |                           |                                                                                                                                                                                                                                                                      |  |                                |  |  |
| Model                                            |                          |                           | PQRY-P96ZLMU-B                                                                                                                                                                                                                                                       |  | PQRY-P96ZLMU-B                 |                           | PQRY-P120ZLMU-B                                                                                                                                                                                                                                                      |  | PQRY-P96ZLMU-B                 |  |  |
| Minimum Circuit Ampacity                         |                          | A                         | 9                                                                                                                                                                                                                                                                    |  | 9                              |                           | 13                                                                                                                                                                                                                                                                   |  | 9                              |  |  |
| Maximum Overcurrent Protection                   |                          | A                         | 15                                                                                                                                                                                                                                                                   |  | 15                             |                           | 20                                                                                                                                                                                                                                                                   |  | 15                             |  |  |
| Inlet water                                      | Water flow rate          | G/h                       | 1,522 + 1,522                                                                                                                                                                                                                                                        |  |                                |                           | 1,522 + 1,522                                                                                                                                                                                                                                                        |  |                                |  |  |
|                                                  |                          | G / min                   | 25.4 + 25.4                                                                                                                                                                                                                                                          |  |                                |                           | 25.4 + 25.4                                                                                                                                                                                                                                                          |  |                                |  |  |
|                                                  |                          | m³/h                      | 5.76 + 5.76                                                                                                                                                                                                                                                          |  |                                |                           | 5.76 + 5.76                                                                                                                                                                                                                                                          |  |                                |  |  |
|                                                  |                          | L/min                     | 96 + 96                                                                                                                                                                                                                                                              |  |                                |                           | 96 + 96                                                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  |                          | cfm                       | 3.4 + 3.4                                                                                                                                                                                                                                                            |  |                                |                           | 3.4 + 3.4                                                                                                                                                                                                                                                            |  |                                |  |  |
|                                                  | Pressure drop            | psi                       | 3.48                                                                                                                                                                                                                                                                 |  | 3.48                           |                           | 3.48                                                                                                                                                                                                                                                                 |  | 3.48                           |  |  |
|                                                  |                          | kPa                       | 24                                                                                                                                                                                                                                                                   |  | 24                             |                           | 24                                                                                                                                                                                                                                                                   |  | 24                             |  |  |
|                                                  | Operating volume range   | G/h                       | 793 + 793 ~ 1,902 + 1,902                                                                                                                                                                                                                                            |  |                                |                           | 793 + 793 ~ 1,902 + 1,902                                                                                                                                                                                                                                            |  |                                |  |  |
| G / min                                          |                          | 13.2 + 13.2 ~ 31.7 + 31.7 |                                                                                                                                                                                                                                                                      |  |                                | 13.2 + 13.2 ~ 31.7 + 31.7 |                                                                                                                                                                                                                                                                      |  |                                |  |  |
|                                                  |                          | m³/h                      | 3.0 + 3.0 ~ 7.2 + 7.2                                                                                                                                                                                                                                                |  |                                |                           | 3.0 + 3.0 ~ 7.2 + 7.2                                                                                                                                                                                                                                                |  |                                |  |  |
| Compressor                                       | Type x Quantity          |                           | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                              |  |                                |                           | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                              |  |                                |  |  |
|                                                  | Starting method          |                           | Inverter                                                                                                                                                                                                                                                             |  | Inverter                       |                           | Inverter                                                                                                                                                                                                                                                             |  | Inverter                       |  |  |
|                                                  | Motor output             | kW                        | 6.0                                                                                                                                                                                                                                                                  |  | 6.0                            |                           | 7.7                                                                                                                                                                                                                                                                  |  | 6.0                            |  |  |
|                                                  | Case heater              | kW                        | 0.035                                                                                                                                                                                                                                                                |  | 0.035                          |                           | 0.035                                                                                                                                                                                                                                                                |  | 0.035                          |  |  |
| External finish                                  |                          |                           | Galvanized steel sheets                                                                                                                                                                                                                                              |  |                                |                           | Galvanized steel sheets                                                                                                                                                                                                                                              |  |                                |  |  |
| External dimension H x W x D                     |                          | in.                       | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                                        |  | 43-5/16 x 34-11/16 x 21-11/16  |                           | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                                        |  | 43-5/16 x 34-11/16 x 21-11/16  |  |  |
|                                                  |                          | mm                        | 1,100 x 880 x 550                                                                                                                                                                                                                                                    |  | 1,100 x 880 x 550              |                           | 1,100 x 880 x 550                                                                                                                                                                                                                                                    |  | 1,100 x 880 x 550              |  |  |
| Protection devices                               | High pressure protection |                           | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                     |  |                                |                           | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                     |  |                                |  |  |
|                                                  | Inverter circuit         |                           | Over-heat protection, Over-current protection                                                                                                                                                                                                                        |  |                                |                           | Over-heat protection, Over-current protection                                                                                                                                                                                                                        |  |                                |  |  |
|                                                  | Compressor               |                           | Over-heat protection                                                                                                                                                                                                                                                 |  | Over-heat protection           |                           | Over-heat protection                                                                                                                                                                                                                                                 |  | Over-heat protection           |  |  |
| Refrigerant                                      | Type x original charge   |                           | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                                                                                                                                                       |  | R410A x 11 lbs + 1 oz (5.0 kg) |                           | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                                                                                                                                                       |  | R410A x 11 lbs + 1 oz (5.0 kg) |  |  |
| Net weight                                       | lbs (kg)                 |                           | 406 (184)                                                                                                                                                                                                                                                            |  | 406 (184)                      |                           | 406 (184)                                                                                                                                                                                                                                                            |  | 406 (184)                      |  |  |
| Heat exchanger                                   |                          |                           | plate type                                                                                                                                                                                                                                                           |  | plate type                     |                           | plate type                                                                                                                                                                                                                                                           |  | plate type                     |  |  |
|                                                  | Water volume in plate    | G                         | 1.22                                                                                                                                                                                                                                                                 |  | 1.22                           |                           | 1.22                                                                                                                                                                                                                                                                 |  | 1.22                           |  |  |
|                                                  |                          | l                         | 4.6                                                                                                                                                                                                                                                                  |  | 4.6                            |                           | 4.6                                                                                                                                                                                                                                                                  |  | 4.6                            |  |  |
|                                                  | Water pressure Max.      | psi                       | 290                                                                                                                                                                                                                                                                  |  | 290                            |                           | 290                                                                                                                                                                                                                                                                  |  | 290                            |  |  |
|                                                  |                          | MPa                       | 2.0                                                                                                                                                                                                                                                                  |  | 2.0                            |                           | 2.0                                                                                                                                                                                                                                                                  |  | 2.0                            |  |  |
| Pipe between unit and distributor                | High pressure            | in. (mm)                  | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                   |  | 3/4 (19.05) Brazed             |                           | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                   |  | 3/4 (19.05) Brazed             |  |  |
|                                                  | Low pressure             | in. (mm)                  | -                                                                                                                                                                                                                                                                    |  | 7/8 (22.2) Brazed              |                           | -                                                                                                                                                                                                                                                                    |  | 7/8 (22.2) Brazed              |  |  |
| Optional parts                                   |                          |                           | Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |  |                                |                           | Heat Source Twinning kit: CMY-Q100CBK2 joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |  |                                |  |  |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).



# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZSLMU-B

#### ► Specifications



| Heat Source Model                                   |                                      |                           | PQRY-P240ZSLMU-B                                                                                                                                                                                                                                                        |                                | PQRY-P288ZSLMU-B                                                                                                                                                                                                                                                            |                                |                   |
|-----------------------------------------------------|--------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------|
| Indoor Model                                        |                                      |                           | Non-Ducted                                                                                                                                                                                                                                                              |                                | Ducted                                                                                                                                                                                                                                                                      |                                |                   |
| Power source                                        |                                      |                           | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                         |                                | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                                             |                                |                   |
| Cooling capacity<br>(Nominal)                       | *1                                   | BTU/h                     | 240,000                                                                                                                                                                                                                                                                 |                                | 288,000                                                                                                                                                                                                                                                                     |                                |                   |
|                                                     | *1                                   | kW                        | 70.3                                                                                                                                                                                                                                                                    |                                | 84.4                                                                                                                                                                                                                                                                        |                                |                   |
| (575)                                               | Power input                          | kW                        | 16.89                                                                                                                                                                                                                                                                   |                                | 20.42                                                                                                                                                                                                                                                                       |                                |                   |
|                                                     | Current input                        | A                         | 18.8                                                                                                                                                                                                                                                                    |                                | 22.7                                                                                                                                                                                                                                                                        |                                |                   |
| (Rated)                                             |                                      | BTU/h                     | 230,000                                                                                                                                                                                                                                                                 |                                | 276,000                                                                                                                                                                                                                                                                     |                                |                   |
|                                                     |                                      | kW                        | 67.4                                                                                                                                                                                                                                                                    |                                | 80.9                                                                                                                                                                                                                                                                        |                                |                   |
| (575)                                               | Power input                          | kW                        | 15.73                                                                                                                                                                                                                                                                   | 16.79                          | 20.11                                                                                                                                                                                                                                                                       | 22.67                          |                   |
|                                                     | Current input                        | A                         | 17.5                                                                                                                                                                                                                                                                    | 18.7                           | 22.4                                                                                                                                                                                                                                                                        | 25.2                           |                   |
| Temp. range of<br>cooling                           | Indoor                               | W.B.                      | 59~75°F (15~24°C)                                                                                                                                                                                                                                                       |                                | 59~75°F (15~24°C)                                                                                                                                                                                                                                                           |                                |                   |
|                                                     | Inlet water                          | °F                        | 50~113°F (10~45°C)                                                                                                                                                                                                                                                      |                                | 50~113°F (10~45°C)                                                                                                                                                                                                                                                          |                                |                   |
| Heating capacity<br>(Nominal)                       | *2                                   | BTU/h                     | 270,000                                                                                                                                                                                                                                                                 |                                | 323,000                                                                                                                                                                                                                                                                     |                                |                   |
|                                                     | *2                                   | kW                        | 79.1                                                                                                                                                                                                                                                                    |                                | 94.7                                                                                                                                                                                                                                                                        |                                |                   |
| (575)                                               | Power input                          | kW                        | 14.58                                                                                                                                                                                                                                                                   |                                | 17.50                                                                                                                                                                                                                                                                       |                                |                   |
|                                                     | Current input                        | A                         | 16.2                                                                                                                                                                                                                                                                    |                                | 19.5                                                                                                                                                                                                                                                                        |                                |                   |
| (Rated)                                             |                                      | BTU/h                     | 258,000                                                                                                                                                                                                                                                                 |                                | 304,000                                                                                                                                                                                                                                                                     |                                |                   |
|                                                     |                                      | kW                        | 75.6                                                                                                                                                                                                                                                                    |                                | 89.1                                                                                                                                                                                                                                                                        |                                |                   |
| (575)                                               | Power input                          | kW                        | 12.83                                                                                                                                                                                                                                                                   | 11.67                          | 15.48                                                                                                                                                                                                                                                                       | 15.48                          |                   |
|                                                     | Current input                        | A                         | 14.3                                                                                                                                                                                                                                                                    | 13.0                           | 17.2                                                                                                                                                                                                                                                                        | 17.1                           |                   |
| Temp. range of<br>heating                           | Indoor                               | D.B.                      | 59~81°F (15~27°C)                                                                                                                                                                                                                                                       |                                | 59~81°F (15~27°C)                                                                                                                                                                                                                                                           |                                |                   |
|                                                     | Inlet water                          | °F                        | 50~113°F (10~45°C)                                                                                                                                                                                                                                                      |                                | 50~113°F (10~45°C)                                                                                                                                                                                                                                                          |                                |                   |
| Indoor unit<br>connectable                          | Total capacity                       |                           | 50~150% of heat source unit capacity                                                                                                                                                                                                                                    |                                | 50~150% of heat source unit capacity                                                                                                                                                                                                                                        |                                |                   |
|                                                     | Model/Quantity                       |                           | P04~P96/2~50 (Connectable branch pipe number is max. 48.)                                                                                                                                                                                                               |                                | P04~P96/2~50 (Connectable branch pipe number is max. 48.)                                                                                                                                                                                                                   |                                |                   |
| Sound pressure level<br>(measured in anechoic room) | dB <A>                               |                           | 74.0                                                                                                                                                                                                                                                                    |                                | 71.0                                                                                                                                                                                                                                                                        |                                |                   |
| Refrigerant                                         | High pressure                        | in. (mm)                  | 7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)                                                                                                                                                                                                 |                                | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                                        |                                |                   |
| piping diameter                                     | Low pressure                         | in. (mm)                  | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                                                    |                                | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                                                        |                                |                   |
| Set Model                                           |                                      |                           |                                                                                                                                                                                                                                                                         |                                |                                                                                                                                                                                                                                                                             |                                |                   |
| Model                                               |                                      |                           | PQRY-P120ZLMU-B                                                                                                                                                                                                                                                         | PQRY-P120ZLMU-B                | PQRY-P144ZLMU-B                                                                                                                                                                                                                                                             | PQRY-P144ZLMU-B                |                   |
| Minimum Circuit Ampacity                            |                                      | A                         | 13                                                                                                                                                                                                                                                                      | 13                             | 15                                                                                                                                                                                                                                                                          | 15                             |                   |
| Maximum Overcurrent Protection                      |                                      | A                         | 20                                                                                                                                                                                                                                                                      | 20                             | 25                                                                                                                                                                                                                                                                          | 25                             |                   |
| Inlet water                                         | Water flow rate                      | G/h                       | 1,522 + 1,522                                                                                                                                                                                                                                                           |                                | 1,902 + 1,902                                                                                                                                                                                                                                                               |                                |                   |
|                                                     |                                      | G / min                   | 25.4 + 25.4                                                                                                                                                                                                                                                             |                                | 31.7 + 31.7                                                                                                                                                                                                                                                                 |                                |                   |
|                                                     |                                      | m³/h                      | 5.76 + 5.76                                                                                                                                                                                                                                                             |                                | 7.20 + 7.20                                                                                                                                                                                                                                                                 |                                |                   |
|                                                     |                                      | L/min                     | 96 + 96                                                                                                                                                                                                                                                                 |                                | 120 + 120                                                                                                                                                                                                                                                                   |                                |                   |
|                                                     |                                      | cfm                       | 3.4 + 3.4                                                                                                                                                                                                                                                               |                                | 4.2 + 4.2                                                                                                                                                                                                                                                                   |                                |                   |
|                                                     | Pressure drop                        | psi                       | 3.48                                                                                                                                                                                                                                                                    | 3.48                           | 6.38                                                                                                                                                                                                                                                                        | 6.38                           |                   |
|                                                     |                                      | kPa                       | 24                                                                                                                                                                                                                                                                      | 24                             | 44                                                                                                                                                                                                                                                                          | 44                             |                   |
|                                                     | Operating volume<br>range            | G/h                       | 793 + 793 ~ 1,902 + 1,902                                                                                                                                                                                                                                               |                                | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                                                                                                                                                               |                                |                   |
| G / min                                             |                                      | 13.2 + 13.2 ~ 31.7 + 31.7 |                                                                                                                                                                                                                                                                         | 19.8 + 19.8 ~ 50.9 + 50.9      |                                                                                                                                                                                                                                                                             |                                |                   |
| m³/h                                                |                                      | 3.0 + 3.0 ~ 7.2 + 7.2     |                                                                                                                                                                                                                                                                         | 4.5 + 4.5 ~ 11.6 + 11.6        |                                                                                                                                                                                                                                                                             |                                |                   |
| Compressor                                          | Type x Quantity                      |                           | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                 |                                | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                                     |                                |                   |
|                                                     | Starting method                      |                           | Inverter                                                                                                                                                                                                                                                                | Inverter                       | Inverter                                                                                                                                                                                                                                                                    | Inverter                       |                   |
|                                                     | Motor output                         | kW                        | 7.7                                                                                                                                                                                                                                                                     | 7.7                            | 9.5                                                                                                                                                                                                                                                                         | 9.5                            |                   |
|                                                     | Case heater                          | kW                        | 0.035                                                                                                                                                                                                                                                                   | 0.035                          | 0.045                                                                                                                                                                                                                                                                       | 0.045                          |                   |
| External finish                                     |                                      |                           | Galvanized steel sheets                                                                                                                                                                                                                                                 |                                | Galvanized steel sheets                                                                                                                                                                                                                                                     |                                |                   |
| External dimension H x W x D                        |                                      | in.                       | 43-5/16 x 34-11/16 x 21-11/16                                                                                                                                                                                                                                           | 43-5/16 x 34-11/16 x 21-11/16  | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                                                                                                | 57-1/8 x 34-11/16 x 21-11/16   |                   |
|                                                     |                                      | mm                        | 1,100 x 880 x 550                                                                                                                                                                                                                                                       | 1,100 x 880 x 550              | 1,450 x 880 x 550                                                                                                                                                                                                                                                           | 1,450 x 880 x 550              |                   |
| Protection<br>devices                               | High pressure protection             |                           | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                        |                                | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                                            |                                |                   |
|                                                     | Inverter circuit                     |                           | Over-heat protection, Over-current protection                                                                                                                                                                                                                           |                                | Over-heat protection, Over-current protection                                                                                                                                                                                                                               |                                |                   |
| Compressor                                          | Compressor                           |                           | Over-heat protection                                                                                                                                                                                                                                                    | Over-heat protection           | Over-heat protection                                                                                                                                                                                                                                                        | Over-heat protection           |                   |
|                                                     | Type x original charge               |                           | R410A x 11 lbs + 1 oz (5.0 kg)                                                                                                                                                                                                                                          | R410A x 11 lbs + 1 oz (5.0 kg) | R410A x 13 lbs + 4 oz (6.0 kg)                                                                                                                                                                                                                                              | R410A x 13 lbs + 4 oz (6.0 kg) |                   |
| Net weight                                          |                                      | lbs (kg)                  | 406 (184)                                                                                                                                                                                                                                                               | 406 (184)                      | 510 (231)                                                                                                                                                                                                                                                                   | 510 (231)                      |                   |
| Heat exchanger                                      |                                      |                           | plate type                                                                                                                                                                                                                                                              | plate type                     | plate type                                                                                                                                                                                                                                                                  | plate type                     |                   |
|                                                     |                                      | Water volume              | G                                                                                                                                                                                                                                                                       | 1.22                           | 1.22                                                                                                                                                                                                                                                                        | 1.22                           | 1.22              |
|                                                     |                                      | in plate                  | l                                                                                                                                                                                                                                                                       | 4.6                            | 4.6                                                                                                                                                                                                                                                                         | 4.6                            | 4.6               |
|                                                     |                                      | Water pressure            | psi                                                                                                                                                                                                                                                                     | 290                            | 290                                                                                                                                                                                                                                                                         | 290                            | 290               |
| Max.                                                |                                      | MPa                       | 2.0                                                                                                                                                                                                                                                                     | 2.0                            | 2.0                                                                                                                                                                                                                                                                         | 2.0                            |                   |
|                                                     | Pipe between unit<br>and distributor | High pressure             | in. (mm)                                                                                                                                                                                                                                                                | 3/4 (19.05) Brazed             | 3/4 (19.05) Brazed                                                                                                                                                                                                                                                          | 7/8 (22.2) Brazed              | 7/8 (22.2) Brazed |
|                                                     | Low pressure                         | in. (mm)                  | -                                                                                                                                                                                                                                                                       | 7/8 (22.2) Brazed              | -                                                                                                                                                                                                                                                                           | 1-1/8 (28.58) Brazed           |                   |
| Optional parts                                      |                                      |                           | Heat Source Twinning kit: CMY-Q100CBK2<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>CMY-R201, 202, 203, 204, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |                                | Heat Source Twinning kit: CMY-Q200CBK<br>joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1<br>CMY-R201, 202, 203, 204, 205, 306S-G, CMY-R302, 303, 304, 305S-G1<br>Main BC controller: CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104, 108NU-KB2 |                                |                   |

#### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                   |                           |          | PQRY-P312ZSLMU-B                                                                                                                                                                                                                                          |                                |
|-----------------------------------------------------|---------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Indoor Model                                        |                           |          | Non-Ducted                                                                                                                                                                                                                                                | Ducted                         |
| Power source                                        |                           |          | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                           |                                |
| Cooling capacity<br>(Nominal)                       | *1                        | BTU/h    | 312,000                                                                                                                                                                                                                                                   |                                |
|                                                     | *1                        | kW       | 91.4                                                                                                                                                                                                                                                      |                                |
| (575)                                               | Power input               | kW       | 23.41                                                                                                                                                                                                                                                     |                                |
|                                                     | Current input             | A        | 26.1                                                                                                                                                                                                                                                      |                                |
| (Rated)                                             |                           | BTU/h    | 298,000                                                                                                                                                                                                                                                   |                                |
|                                                     |                           | kW       | 87.3                                                                                                                                                                                                                                                      |                                |
| (575)                                               | Power input               | kW       | 22.45                                                                                                                                                                                                                                                     | 24.98                          |
|                                                     | Current input             | A        | 25.0                                                                                                                                                                                                                                                      | 27.8                           |
| Temp. range of<br>cooling                           | Indoor                    | W.B.     | 59~75°F (15~24°C)                                                                                                                                                                                                                                         |                                |
|                                                     | Inlet water               | °F       | 50~113°F (10~45°C)                                                                                                                                                                                                                                        |                                |
| Heating capacity<br>(Nominal)                       | *2                        | BTU/h    | 350,000                                                                                                                                                                                                                                                   |                                |
|                                                     | *2                        | kW       | 102.6                                                                                                                                                                                                                                                     |                                |
| (575)                                               | Power input               | kW       | 19.11                                                                                                                                                                                                                                                     |                                |
|                                                     | Current input             | A        | 21.3                                                                                                                                                                                                                                                      |                                |
| (Rated)                                             |                           | BTU/h    | 334,000                                                                                                                                                                                                                                                   |                                |
|                                                     |                           | kW       | 97.9                                                                                                                                                                                                                                                      |                                |
| (575)                                               | Power input               | kW       | 17.09                                                                                                                                                                                                                                                     | 17.12                          |
|                                                     | Current input             | A        | 19.0                                                                                                                                                                                                                                                      | 19.0                           |
| Temp. range of<br>heating                           | Indoor                    | D.B.     | 59~81°F (15~27°C)                                                                                                                                                                                                                                         |                                |
|                                                     | Inlet water               | °F       | 50~113°F (10~45°C)                                                                                                                                                                                                                                        |                                |
| Indoor unit<br>connectable                          | Total capacity            |          | 50~150% of heat source unit capacity                                                                                                                                                                                                                      |                                |
|                                                     | Model/Quantity            |          | P04~P96/2~50 (Connectable branch pipe number is max. 48.)                                                                                                                                                                                                 |                                |
| Sound pressure level<br>(measured in anechoic room) |                           | dB <A>   | 72.5                                                                                                                                                                                                                                                      |                                |
| Refrigerant                                         | High pressure             | in. (mm) | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                      |                                |
| piping diameter                                     | Low pressure              | in. (mm) | 1-3/8 (34.93) Brazed                                                                                                                                                                                                                                      |                                |
| Set Model                                           |                           |          |                                                                                                                                                                                                                                                           |                                |
| Model                                               |                           |          | PQRY-P168ZLMU-B                                                                                                                                                                                                                                           | PQRY-P144ZLMU-B                |
| Minimum Circuit Ampacity                            |                           | A        | 21                                                                                                                                                                                                                                                        | 15                             |
| Maximum Overcurrent Protection                      |                           | A        | 35                                                                                                                                                                                                                                                        | 25                             |
| Inlet water                                         | Water flow rate           | G/h      | 1,902 + 1,902                                                                                                                                                                                                                                             |                                |
|                                                     |                           | G / min  | 31.7 + 31.7                                                                                                                                                                                                                                               |                                |
|                                                     |                           | m³/h     | 7.20 + 7.20                                                                                                                                                                                                                                               |                                |
|                                                     |                           | L/min    | 120 + 120                                                                                                                                                                                                                                                 |                                |
|                                                     |                           | cfm      | 4.2 + 4.2                                                                                                                                                                                                                                                 |                                |
|                                                     | Pressure drop             | psi      | 6.38                                                                                                                                                                                                                                                      | 6.38                           |
|                                                     |                           | kPa      | 44                                                                                                                                                                                                                                                        | 44                             |
|                                                     | Operating volume<br>range | G/h      | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                                                                                                                                             |                                |
|                                                     |                           | G / min  | 19.8 + 19.8 ~ 50.9 + 50.9                                                                                                                                                                                                                                 |                                |
|                                                     |                           | m³/h     | 4.5 + 4.5 ~ 11.6 + 11.6                                                                                                                                                                                                                                   |                                |
| Compressor                                          | Type x Quantity           |          | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                   |                                |
|                                                     | Starting method           |          | Inverter                                                                                                                                                                                                                                                  | Inverter                       |
|                                                     | Motor output              | kW       | 11.0                                                                                                                                                                                                                                                      | 9.5                            |
|                                                     | Case heater               | kW       | 0.045                                                                                                                                                                                                                                                     | 0.045                          |
| External finish                                     |                           |          | Galvanized steel sheets                                                                                                                                                                                                                                   |                                |
| External dimension H x W x D                        |                           | in.      | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                                                                              | 57-1/8 x 34-11/16 x 21-11/16   |
|                                                     |                           | mm       | 1,450 x 880 x 550                                                                                                                                                                                                                                         | 1,450 x 880 x 550              |
| Protection<br>devices                               | High pressure protection  |          | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                          |                                |
|                                                     | Inverter circuit          |          | Over-heat protection, Over-current protection                                                                                                                                                                                                             |                                |
|                                                     | Compressor                |          | Over-heat protection                                                                                                                                                                                                                                      | Over-heat protection           |
| Refrigerant                                         | Type x original charge    |          | R410A x 13 lbs + 4 oz (6.0 kg)                                                                                                                                                                                                                            | R410A x 13 lbs + 4 oz (6.0 kg) |
| Net weight                                          |                           | lbs (kg) | 510 (231)                                                                                                                                                                                                                                                 | 510 (231)                      |
| Heat exchanger                                      |                           |          | plate type                                                                                                                                                                                                                                                | plate type                     |
|                                                     | Water volume<br>in plate  | G        | 1.22                                                                                                                                                                                                                                                      | 1.22                           |
|                                                     |                           | l        | 4.6                                                                                                                                                                                                                                                       | 4.6                            |
|                                                     | Water pressure<br>Max.    | psi      | 290                                                                                                                                                                                                                                                       | 290                            |
|                                                     |                           | MPa      | 2.0                                                                                                                                                                                                                                                       | 2.0                            |
| Pipe between unit<br>and distributor                | High pressure             | in. (mm) | 7/8 (22.2) Brazed                                                                                                                                                                                                                                         | 7/8 (22.2) Brazed              |
|                                                     | Low pressure              | in. (mm) | -                                                                                                                                                                                                                                                         | 1-1/8 (28.58) Brazed           |
| Optional parts                                      |                           |          | Heat Source Twinning kit: CMY-Q200CBK<br>joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

# HEAT SOURCE UNIT

## WR2-Series (575V)

### PQRY-P ZSLMU-B



## ► Specifications

| Heat Source Model                                |                          |                         | PQRY-P336ZSLMU-B                                                                                                                                                                                                                                          |                                |
|--------------------------------------------------|--------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Indoor Model                                     |                          |                         | Non-Ducted                                                                                                                                                                                                                                                | Ducted                         |
| Power source                                     |                          |                         | 3-phase 3-wire 575 V ±10% 60 Hz                                                                                                                                                                                                                           |                                |
| Cooling capacity (Nominal)                       | *1                       | BTU/h                   | 336,000                                                                                                                                                                                                                                                   |                                |
|                                                  | *1                       | kW                      | 98.5                                                                                                                                                                                                                                                      |                                |
| (575)                                            | Power input              | kW                      | 26.84                                                                                                                                                                                                                                                     |                                |
|                                                  | Current input            | A                       | 29.9                                                                                                                                                                                                                                                      |                                |
| (Rated)                                          |                          | BTU/h                   | 320,000                                                                                                                                                                                                                                                   |                                |
|                                                  |                          | kW                      | 93.8                                                                                                                                                                                                                                                      |                                |
| (575)                                            | Power input              | kW                      | 25.14                                                                                                                                                                                                                                                     | 27.11                          |
|                                                  | Current input            | A                       | 28.0                                                                                                                                                                                                                                                      | 30.2                           |
| Temp. range of cooling                           | Indoor                   | W.B.                    | 59~75°F (15~24°C)                                                                                                                                                                                                                                         |                                |
|                                                  | Inlet water              | °F                      | 50~113°F (10~45°C)                                                                                                                                                                                                                                        |                                |
| Heating capacity (Nominal)                       | *2                       | BTU/h                   | 378,000                                                                                                                                                                                                                                                   |                                |
|                                                  | *2                       | kW                      | 110.8                                                                                                                                                                                                                                                     |                                |
| (575)                                            | Power input              | kW                      | 20.77                                                                                                                                                                                                                                                     |                                |
|                                                  | Current input            | A                       | 23.1                                                                                                                                                                                                                                                      |                                |
| (Rated)                                          |                          | BTU/h                   | 360,000                                                                                                                                                                                                                                                   |                                |
|                                                  |                          | kW                      | 105.5                                                                                                                                                                                                                                                     |                                |
| (575)                                            | Power input              | kW                      | 18.49                                                                                                                                                                                                                                                     | 19.10                          |
|                                                  | Current input            | A                       | 20.6                                                                                                                                                                                                                                                      | 21.3                           |
| Temp. range of heating                           | Indoor                   | D.B.                    | 59~81°F (15~27°C)                                                                                                                                                                                                                                         |                                |
|                                                  | Inlet water              | °F                      | 50~113°F (10~45°C)                                                                                                                                                                                                                                        |                                |
| Indoor unit connectable                          | Total capacity           |                         | 50~150% of heat source unit capacity                                                                                                                                                                                                                      |                                |
|                                                  | Model/Quantity           |                         | P04~P96/2~50 (Connectable branch pipe number is max. 48.)                                                                                                                                                                                                 |                                |
| Sound pressure level (measured in anechoic room) |                          | dB <A>                  | 73.0                                                                                                                                                                                                                                                      |                                |
| Refrigerant                                      | High pressure            | in. (mm)                | 1-1/8 (28.58) Brazed                                                                                                                                                                                                                                      |                                |
| piping diameter                                  | Low pressure             | in. (mm)                | 1-5/8 (41.28) Brazed                                                                                                                                                                                                                                      |                                |
| Set Model                                        |                          |                         |                                                                                                                                                                                                                                                           |                                |
| Model                                            |                          |                         | PQRY-P168ZLMU-B                                                                                                                                                                                                                                           | PQRY-P168ZLMU-B                |
| Minimum Circuit Ampacity                         |                          | A                       | 21                                                                                                                                                                                                                                                        | 21                             |
| Maximum Overcurrent Protection                   |                          | A                       | 35                                                                                                                                                                                                                                                        | 35                             |
| Inlet water                                      | Water flow rate          | G/h                     | 1,902 + 1,902                                                                                                                                                                                                                                             |                                |
|                                                  |                          | G / min                 | 31.7 + 31.7                                                                                                                                                                                                                                               |                                |
|                                                  |                          | m³/h                    | 7.20 + 7.20                                                                                                                                                                                                                                               |                                |
|                                                  |                          | L/min                   | 120 + 120                                                                                                                                                                                                                                                 |                                |
|                                                  |                          | cfm                     | 4.2 + 4.2                                                                                                                                                                                                                                                 |                                |
|                                                  | Pressure drop            | psi                     | 6.38                                                                                                                                                                                                                                                      | 6.38                           |
|                                                  |                          | kPa                     | 44                                                                                                                                                                                                                                                        | 44                             |
|                                                  | Operating volume range   | G/h                     | 1,189 + 1,189 ~ 3,054 + 3,054                                                                                                                                                                                                                             |                                |
|                                                  |                          | G / min                 | 19.8 + 19.8 ~ 50.9 + 50.9                                                                                                                                                                                                                                 |                                |
| m³/h                                             |                          | 4.5 + 4.5 ~ 11.6 + 11.6 |                                                                                                                                                                                                                                                           |                                |
| Compressor                                       | Type x Quantity          |                         | Inverter scroll hermetic compressor x 1                                                                                                                                                                                                                   |                                |
|                                                  | Starting method          |                         | Inverter                                                                                                                                                                                                                                                  | Inverter                       |
|                                                  | Motor output             | kW                      | 11.0                                                                                                                                                                                                                                                      | 11.0                           |
|                                                  | Case heater              | kW                      | 0.045                                                                                                                                                                                                                                                     | 0.045                          |
| External finish                                  |                          |                         | Galvanized steel sheets                                                                                                                                                                                                                                   |                                |
| External dimension H x W x D                     |                          | in.                     | 57-1/8 x 34-11/16 x 21-11/16                                                                                                                                                                                                                              | 57-1/8 x 34-11/16 x 21-11/16   |
|                                                  |                          | mm                      | 1,450 x 880 x 550                                                                                                                                                                                                                                         | 1,450 x 880 x 550              |
| Protection devices                               | High pressure protection |                         | High pressure sensor, High pressure switch at 4.15 MPa (601 psi)                                                                                                                                                                                          |                                |
|                                                  | Inverter circuit         |                         | Over-heat protection, Over-current protection                                                                                                                                                                                                             |                                |
|                                                  | Compressor               |                         | Over-heat protection                                                                                                                                                                                                                                      | Over-heat protection           |
| Refrigerant                                      | Type x original charge   |                         | R410A x 13 lbs + 4 oz (6.0 kg)                                                                                                                                                                                                                            | R410A x 13 lbs + 4 oz (6.0 kg) |
| Net weight                                       |                          | lbs (kg)                | 510 (231)                                                                                                                                                                                                                                                 | 510 (231)                      |
| Heat exchanger                                   |                          |                         | plate type                                                                                                                                                                                                                                                |                                |
|                                                  |                          |                         | 1.22                                                                                                                                                                                                                                                      |                                |
|                                                  |                          |                         | 4.6                                                                                                                                                                                                                                                       |                                |
|                                                  |                          |                         | 290                                                                                                                                                                                                                                                       |                                |
|                                                  |                          |                         | 2.0                                                                                                                                                                                                                                                       |                                |
| Pipe between unit and distributor                | High pressure            | in. (mm)                | 7/8 (22.2) Brazed                                                                                                                                                                                                                                         | 7/8 (22.2) Brazed              |
|                                                  | Low pressure             | in. (mm)                | -                                                                                                                                                                                                                                                         | 1-1/8 (28.58) Brazed           |
| Optional parts                                   |                          |                         | Heat Source Twinning kit: CMY-Q200CBK<br>joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1,CMY-R201,202,203,204,205,306S-G,CMY-R302,303,304,305S-G1<br>Main BC controller: CMB-P108,1012,1016NU-JA2,CMB-P1016NU-KA2<br>Sub BC controller: CMB-P104,108NU-KB2 |                                |

### Notes:

\*1,\*2 Cooling and heating conditions (Test conditions are based on AHRI 1230)

|         | Indoor                                       | Water temperature |
|---------|----------------------------------------------|-------------------|
| Cooling | 81°F D.B./66°F W.B.<br>(27°C D.B./19°C W.B.) | 86°F (30°C)       |
| Heating | 68°F D.B. (20°C D.B.)                        | 68°F (20°C)       |

\*3 The sound values are sound power level(PWL) based on ISO 3744:2010 (r=3.5m).

Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)

\*Due to continuing improvement, above specifications may be subject to change without notice.

\*The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)

\*The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.

\*The Heat Source Unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

\*Install the supplied insulation material to the unused drain-socket.

\*When installing insulation material around both water and refrigerant piping, follow the installation manual.

\*The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).