MITSUBISHIELECTRICHYDRONICS.CA

MITSUBISHI ELECTRIC
Heating and Cooling

DESIGNED FOR EVOLVING BUILDINGS

HIGH-PERFORMANCE HYDRONIC SOLUTIONS

ecodan®

CLIMAVENETA®

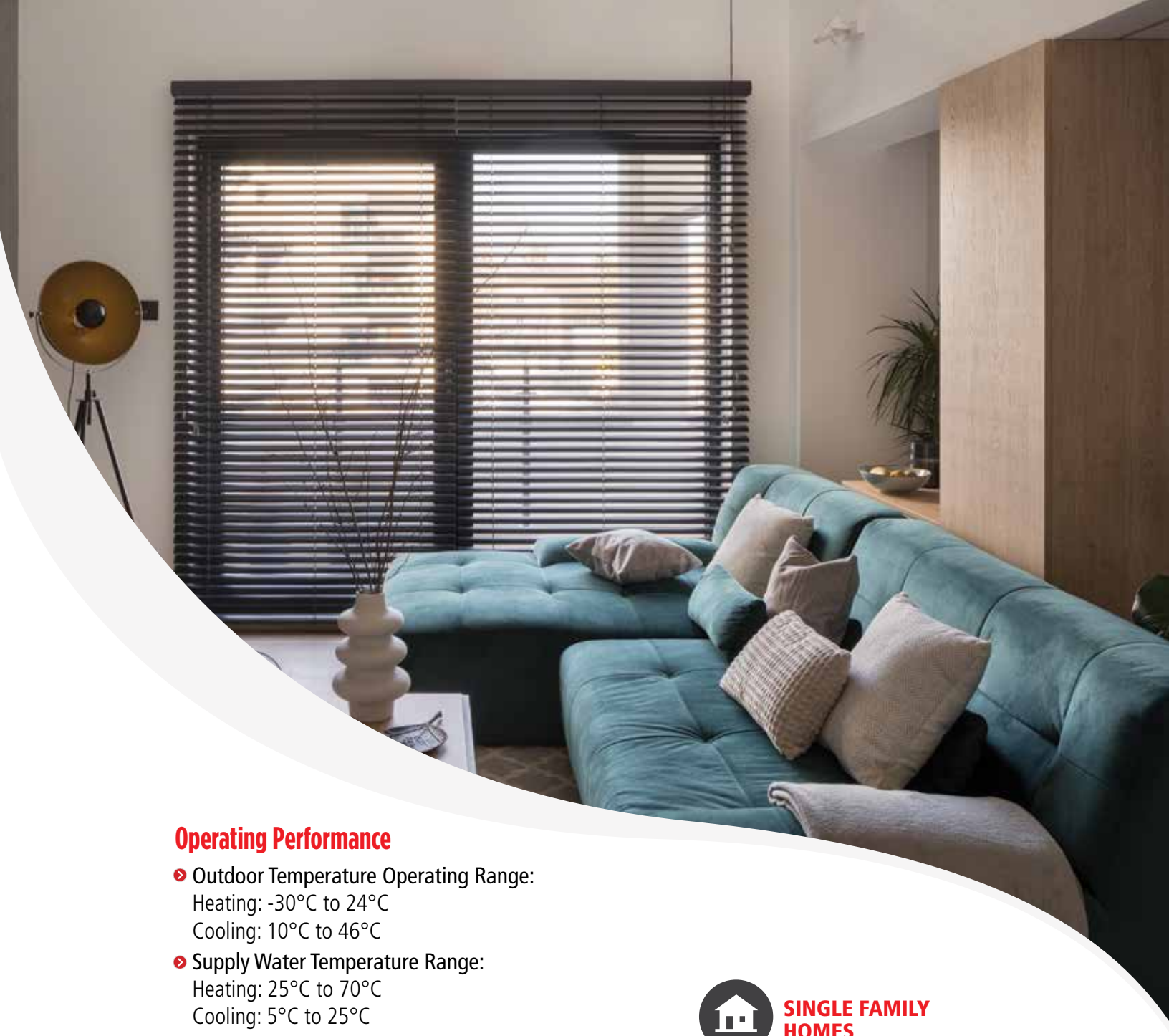
ecodan® WUZ ALL-IN-ONE AIR-TO-WATER HEAT PUMP

Heating, Cooling, and Domestic Hot Water — Simplified

NO FREEZE RISK

Refrigerant Split System with Indoor Water Circuit eliminates the need for glycol or heat trace.

R-32



Operating Performance

- Outdoor Temperature Operating Range:
  Heating: -30°C to 24°C
  Cooling: 10°C to 46°C
- Supply Water Temperature Range:
  Heating: 25°C to 70°C
  Cooling: 5°C to 25°C
- **COP up to 5.05**

Features

- All-In-One System with Hydrobox
- Hyper Heat Cold Climate Performance Down to -30°C and 100% Capacity at -15°C
- Domestic Hot Water
- Integrable with Boiler
- Factory Integrated Hydrobox Components: Magnetic Filter, Flow Sensor, Expansion Tank, Automatic Air Vent
- Quiet Operation as Low as 41-45 dB(A)

Operating Capacity

- 24k, 36k, and 48k BTU/h

SINGLE FAMILY HOMES

MULTI-FAMILY RESIDENTIAL

LIGHT COMMERCIAL

E-Series **EAHV** **AIR-TO-WATER** HEAT PUMP

High Performance with a Lower Carbon Footprint

MODULAR AND SCALABLE

Up to 300 RT with 6 units, **scalable to 1,200 RT** with 24 units per system.

R-32

Operating Performance

- Heating: -20°C to 43°C
- Cooling: -15°C to 52°C
- Maximum Water Outlet Temp: 55°C
- 4 Ultra Quiet Inverter-Driven Compressors in Each Module
- High Turndown Ratio with Multiple Modules

Modular Design

- Connect Up to 6 Units in a Group, 24 Units in a System
- Easy Integration with New Design or Retrofit Applications
- Compact Footprint for Individual or Multiple Modules
- Simple Hydraulic Connections with Option for Internal or External Header

Operating Capacity

- 40 Tons / 150kW
- 50 Tons / 180kW

COMMERCIAL BUILDINGS

Offices
Retail
Hotels

INDUSTRIAL FACILITIES

Light Manufacturing Plants
Distribution Centres
Storage Warehouses

INSTITUTIONAL BUILDINGS

Schools
Community Centres
Government Buildings

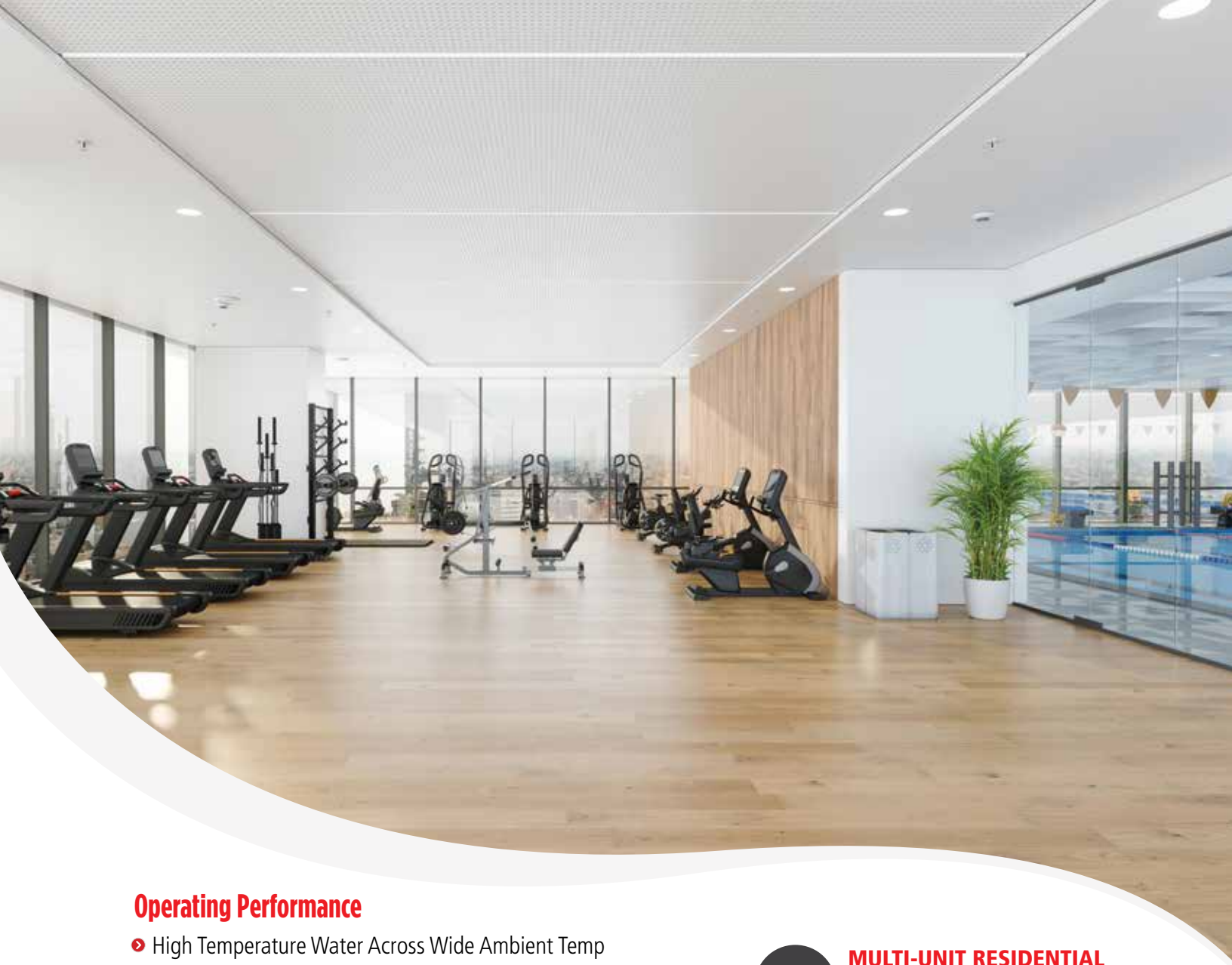
ecodan® CAHV HOT WATER HEAT PUMP

Low-GWP, Built for High-Efficiency Space & Water Heating

INSTALL-READY DESIGN

Packaged **monobloc system** eliminates field refrigerant piping and extra refrigerant charges.

R-454C



Operating Performance

- High Temperature Water Across Wide Ambient Temp Range: -25°C to 43°C
- High Efficiency Inverter Compressor Technology
- Achieves 2.85 COP at Nominal Capacity
- Up to 74°C LWT
- Up to 70°C LWT at -20°C Outdoor Temperature

Installation Flexibility

- Modular, Monobloc System for Simplified Installation
- Can Operate a Group of up to 16 Units (One Controller)
- Rotation Function with Auto Staging Control to Equalize Run Time and Equipment Starts
- External Outputs for Backup Heaters, Analog Capacity Control Input, Defrost Signal, and More

Operating Capacity:

- 136,480 BTU/h Rated Capacity
- 40 kW

MULTI-UNIT RESIDENTIAL

Radiators
Domestic Hot Water
Underfloor Heating
Snow Melt

HOSPITALITY

Space Heating
Laundry Service

RECREATION CENTRES

Sanitary Water
Pool Heating

INDUSTRIAL FACILITIES

Light Manufacturing Plants
Distribution Centres
Storage Warehouses

ecodan® QAHV
HEAT PUMP WATER HEATER

High-temperature output using natural CO_2 refrigerant

PATENTED TECHNOLOGY. PROVEN EFFICIENCY.

Twisted-spiral gas cooler and inverter technology deliver efficient high-lift water heating in a single pass.

CO_2 1

Operating Performance

- Unit Can Supply up to 80°C Hot Water and Operate in Ambient Temperatures from -25°C to 43°C
- Up to 4.11 COP

Installation Flexibility

- Perfect for Applications Where Decarbonized Domestic Hot Water Production is Preferred
- M-NET Connectivity Allows for Integration with Mitsubishi Electric's Suite of Centralized Controllers

Operating Capacity

- 136,480 BTU/h
- 40 kW

HEALTHCARE

EDUCATIONAL INSTITUTIONS

HOSPITALITY

AGED CARE FACILITIES

FITNESS CENTRES

SPAS

CLIMAVENETA®

i-LIFE2 SLIM HYDRONIC FAN COIL

Sleek design optimized for 2-pipe systems

FLEXIBLE SYSTEM COMPATIBILITY

Pair with Mitsubishi Electric's **air-to-water heat pumps**, or third-party hydronic systems.

Operating Features

- Low Energy Consumption with Modulating EC Fan Motor
- Low Noise when Compared to Similar Technologies
- Advanced Precise PID Temperature Control
- Tangential Fans/Asymmetrical Blades
- Unit-Mounted, Wall-Mounted or BMS Control

Installation Flexibility

- Floor-Mounted with Decorative Cover, or;
- Concealed in Wall or Ceiling (Option for Short Plenum)
- Install in Horizontal or Vertical Position
- Wide Range of Inlet Water Temperatures for Application Flexibility

Wide-ranging Compatibility

- Mitsubishi Electric Air-to-Water Heat Pumps: E-Series EAHV, Ecodan WUZ, Ecodan CAHV, Climaveneta NX-N
- Third Party Low-to-High Temperature Hydronic Heat Sources

Efficiency

- Large Coil Surface Area to Ensure High Air Flow with Low Pressure Drop

MULTI-UNIT RESIDENTIAL BUILDINGS

SINGLE FAMILY HOMES

COMMERCIAL AND INSTITUTIONAL SPACES

WHY MITSUBISHI ELECTRIC?

A complete, low-GWP hydronic platform—from heat generation to comfort delivery.
Air-to-water heat pumps, hot-water heat pumps, fan coils, and controls that work together to decarbonize buildings without compromising performance.

Low-GWP by Design
Mitsubishi Electric prioritizes low-GWP refrigerants across the range and provides hot-water and air-to-water systems engineered to help projects meet evolving regulatory and ESG goals.

Proven Cold-Climate Performance
Our hydronic heat pump portfolio is designed for real-world Canadian winters—supporting high-temperature water and stable output across wide ambient conditions.

Scalable, Modular Systems
From single units to multi-unit arrays, our platforms are built to scale—supporting redundancy, load sharing, and easier right-sizing from design through operation.

Open, Integration-Ready
Pair with Mitsubishi Electric sources and terminals—or integrate with third-party hydronic systems and BMS—so you're never locked into a closed ecosystem.

End-to-End Hydronic Ecosystem
Heat sources (air-to-water and hot-water HP), distribution, terminal units, and controls—one coordinated portfolio for space and water heating applications.

SOLUTIONS AT A GLANCE

Space Heating & Cooling (air-to-water platforms)
Domestic Hot Water (hot-water heat pumps)
Terminal Comfort (slim fan coils for 2-pipe systems)

DESIGNED FOR DECISION MAKERS

Consultants & Engineers: hydronic flexibility, modularity, and controls integration.
Owners & Developers: low-carbon outcomes without sacrificing comfort or reliability.
Contractors: packaged designs and thoughtful details that simplify installation.

Ready to design with Mitsubishi Electric Hydronics?

Visit: **MitsubishiElectricHydronics.ca**

JAPANESE ENGINEERED. UNRIVALED QUALITY. FOR CANADA.

MITSUBISHI ELECTRIC
Changes for the Better

ecodan®

CLIMAVENETA®

Environmental Sustainability Vision 2050