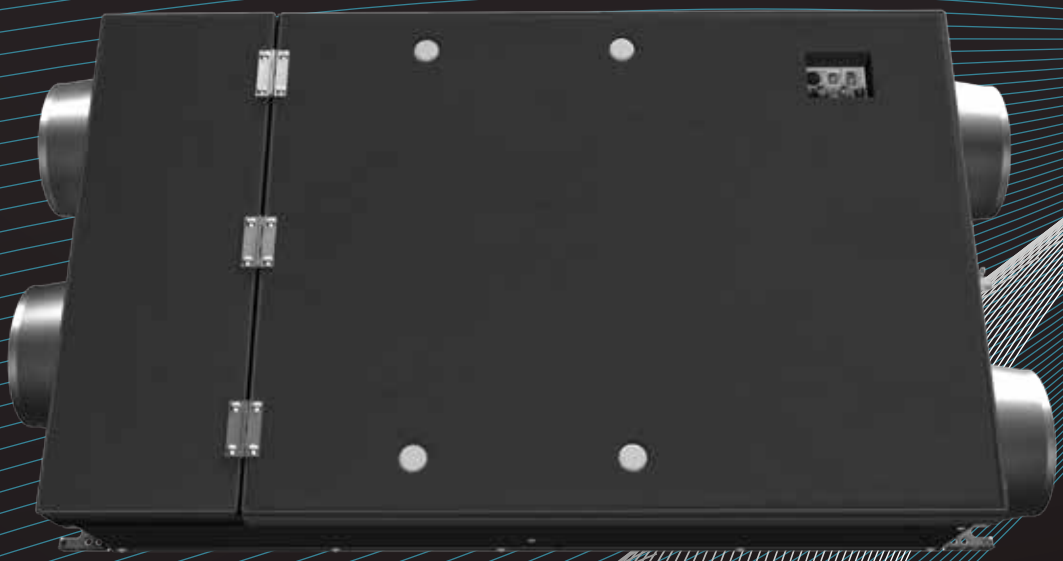
MITSUBISHI ELECTRIC

Heating and Cooling

Lossnay MX Series

ENERGY RECOVERY VENTILATOR

Self-Balancing Airflow from 40 - 110 CFM



Universal Fit, Whisper-Quiet

"This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. This product meets ENERGY STAR requirements only when used in Canada."

Models

LGH-F110MXL-E

LGH-F110MXR-E

Universal Fit,

With a single residential energy recovery ventilation system from Mitsubishi Electric, both single- and multi-family homes can be efficiently ventilated. Combining easy installation, energy-saving performance and whisper-quiet operation at 25 dB(A), Lossnay delivers a healthier and more comfortable indoor air environment for everyday living.



Single-Family Solutions

Installation Example*



Advantages

- Seamless integration with Mitsubishi Electric Air Handlers, M-Series, and P-Series systems.
- Coordinated operation with Mitsubishi Electric Air-Handler, P Series, and M Series systems.

*This illustration is for reference purposes only and does not represent an actual installation.
**The product image shown is of LGH-F110MXL-E. The installation image shown is of LGH-F110MXR-E.

Whisper-Quiet



LGH-F110MXL-E



Multi-Family Solutions

Installation Example*



Advantages

- Seamless integration via M-NET with Mitsubishi Electric CITY MULTI systems.
- Remote operation and monitoring through our centralized controller.

*This illustration is for reference purposes only and does not represent an actual installation.
**The product image shown is of LGH-F110MXL-E. The installation image shown is of LGH-F110MXL-E.

Self-Balancing Constant Air Flow

Cold Climate Performance

- Designed for reliable operation in cold-climate applications, this ERV is equipped with a built-in defrost cycle that automatically adjusts operation according to outdoor temperature conditions.
- During low ambient temperature operation, the unit controls airflow and operating intervals to help prevent frost formation on the heat exchange core while maintaining stable ventilation performance.
- This automatic control function enables dependable operation even in severe winter environments with outdoor temperatures down to as low as **-25°C (13°F)**.
- Advanced defrost cycle for maximized operation time in colder months.



*This map is intended for illustrative purposes only and does not represent exact climate or temperature boundaries.

Outdoor temperature	Installation Direction	
	Horizontal	Wall-mounted
-10°C (14°F) and above	Continuous operation	
-15°C (5°F) to -10°C (14°F)	Intermittent defrost operation Lv.1 10 min OFF, 60 min ON	
-25°C (-13°F) to -15°C (5°F)	Intermittent defrost operation Lv.2 4 min OFF, 18 min ON + 8 min OFF each 6 cycles	Intermittent sensing operation 55 min OFF, 5 min ON
-25°C (-13°F) and below	Intermittent sensing operation 55 min OFF, 5 min ON	

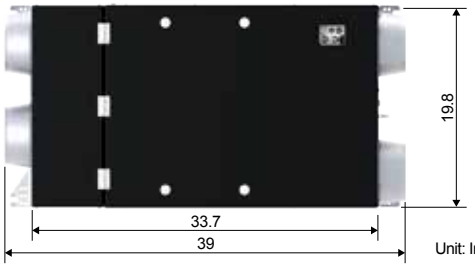
Space-Saving Design

Low profile height (less than 10”)

- Slim profile: 9.5 inches in height and 19.8 inches in depth.
- Two symmetrical models in the lineup.



Unit: Inch



Unit: Inch

*The image shown is of LGH-F110MXR-E.

Installation Options (No Additional Parts Required)

- Can be installed horizontally or wall-mounted without any optional parts.

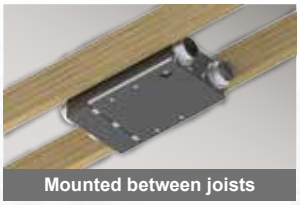
Horizontal



Ceiling suspended



Ceiling mounted



Mounted between joists

Wall-mounted



*The images shown are of LGH-F110MXR-E.

Flexible Integration with Various HVAC Systems

Compatible with Mitsubishi Electric and third-party control devices, sensors, thermostats, and air handlers for flexible integration in residential HVAC systems.

LOSSNAY



Works with Mitsubishi and other devices!

Local Control



Control panel on the unit

LOSSNAY Remote Control



PZ-62DR-EA

M-NET Integration



Centralized Control AE-C400A



CITY MULTI Indoor Unit

P/M series Integration (via CN2L connector)



P/M series Indoor unit



MA Remote controller

Thermostat & Air Handler Integration



Mitsubishi Electric Air Handler



Third-party Air Handler*



Third-party thermostat*

CO_2 sensor connectivity



PZ-70CSW-E



PZ-70CSD-E

Mitsubishi Electric CO_2 Sensor



Third party CO_2 Sensor*

External Fan Boost Control



Third-party Maintained wall switch*



Third-party Momentary wall switch*

Dry Contact



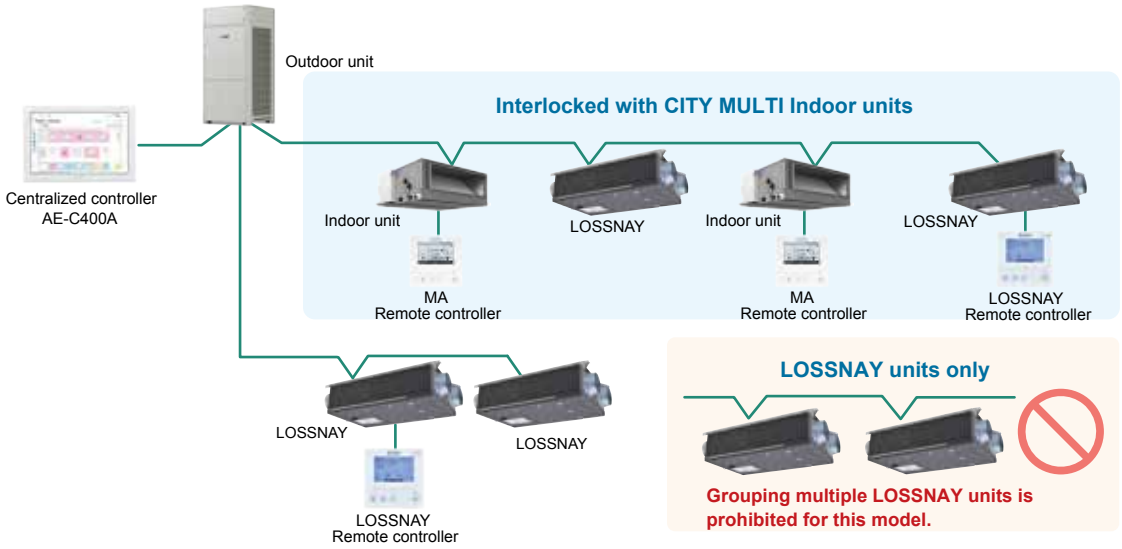
Third-party switch with timer or sensor*

Wet Contact

*Images are for illustrative purposes only and do not represent actual products

M-NET Control Option

Integrates LOSSNAY units with Mitsubishi Electric heating and cooling systems through M-NET centralized control.

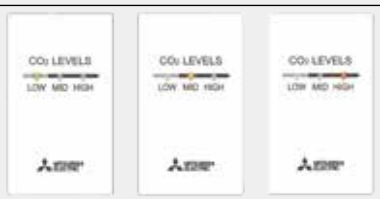


CO_2 sensor control

Precise 8-speed modulation control when connected to the CO_2 controller. Airflow adjusts based on indoor CO_2 levels to enhance comfort and energy savings.

Automatic airflow control based on CO_2 level

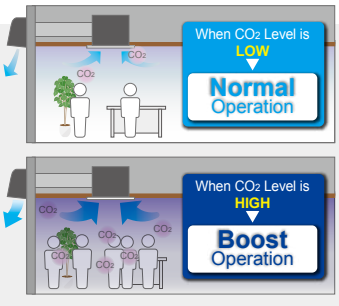
Wall-mounted CO_2 sensor <PZ-70CSW-E>



CO_2 in 3 levels : LOW, MID and HIGH

Duct-mounted CO_2 sensor <PZ-70CSD-E>



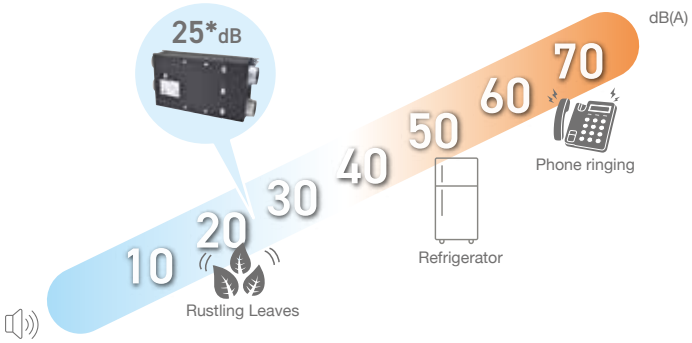


Technology Highlights

Whisper-Quiet Design

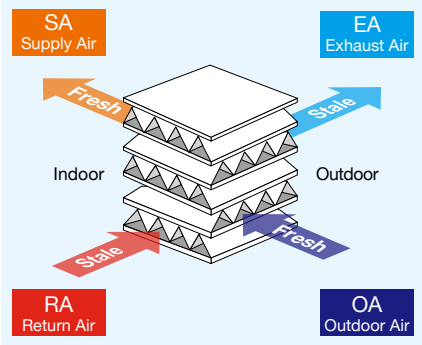


- Ultra-quiet operation is achieved with the Mitsubishi Electric-designed sirocco fan.
- Sound levels are as low as 25* dB at 110 CFM.



Mitsubishi Electric-Engineered Core & EC Motor for High Performance

Patented Core



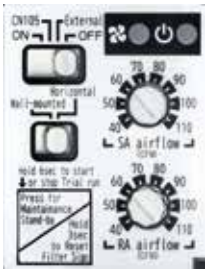
- Fixed-plate, cross-flow heat exchanger design ensures high efficiency and maintenance-friendly operation
- Patented semi-permeable paper diaphragm engineered for precise vapor transmission and thermal exchange
- Simultaneous sensible and latent energy transfer within a single core element
- Inherent moisture transfer enables passive humidity control without condensate drains or piping
- Optimized airflow path and media composition maximize energy recovery effectiveness
- Consistent performance across varying temperature and humidity conditions
- Humidity control with no condensate drain or pipe required

Proprietary EC Motor



Motor developed and manufactured by Mitsubishi Electric

Intuitive Interface



- Intuitive airflow setting via rotary switch, with constant airflow control selectable from 40 to 110 CFM in 10 CFM increments.
- Supply and exhaust can be controlled independently.

*Measured in an anechoic chamber at a distance of 4 ft 11 in. (1.5 m) from the unit.

HVI Certified Performance

Specifications

Electrical power supply		120V/60Hz , 3-prong power supply cable		
Maximum current	A	1.1		
Airflow*1	cfm	110	70	40
	L/s	52	33	19
Noise*2 (Sound pressure level)	dB(A)	25.0	24.5	23.5
Weight		39 lbs		

*1: Measured in accordance with ISO 16494-1; results were obtained from internal testing performed in compliance with this standard and are not HVI-certified.
*2: Measured in an anechoic chamber at a distance of 4 ft 11 in. (1.5 m) from the unit.

HVI-Certified Performance

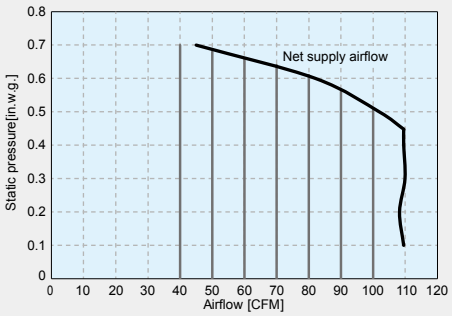
Energy performance

	Supply temperature		Net outdoor airflow		Average power	Sensible Recovery Efficiency	Adjusted SRE	Net Moisture Transfer
	°F	°C	cfm	L/s	W	%	%	
Heating	32	0	51	24	19	78	81	0.75
	32	0	74	35	24	72	74	0.58
	32	0	102	48	34	68	70	0.54
	-13	-25	72	34	22	56	57	0.42
	-13	-25	49	23	16	62	63	0.55

	Supply temperature		Net outdoor airflow		Average power	Total Recovery Efficiency	Adjusted TRE	Net Moisture Transfer
	°F	°C	cfm	L/s	W	%	%	
Cooling	95	35	51	24	20	70	72	0.71

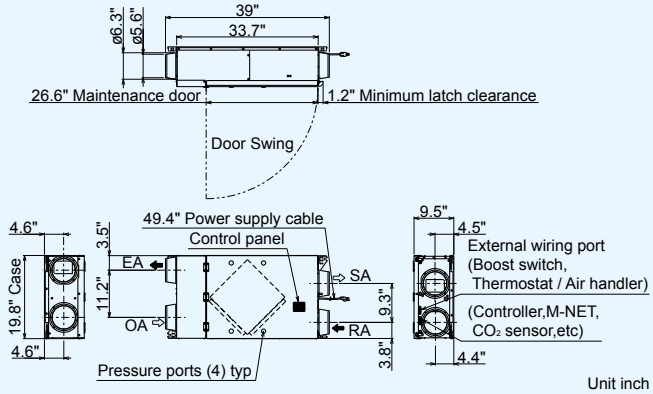
Ventilation performance

External static pressure	in.w.g.	0.1	0.2	0.3	0.4	0.5	0.6	0.7
	Pa	25	50	75	100	125	150	175
Net supply airflow	CFM	110	108	110	110	102	83	44
	l/s	52	51	52	52	48	39	21
Gross supply airflow	CFM	110	110	110	110	104	83	47
	l/s	52	52	52	52	49	39	22
Gross Exhaust airflow	CFM	110	108	110	112	108	89	49
	l/s	52	51	52	53	51	42	23

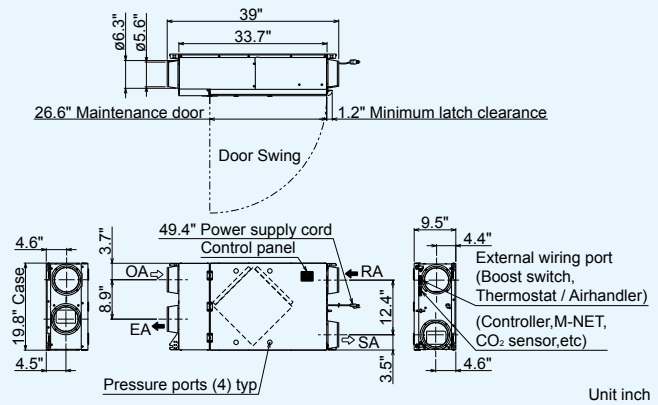


Outline drawings

LGH-F110MXL-E



LGH-F110MXR-E

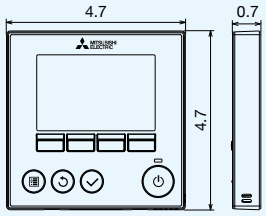


Optional Parts

Remote controller PZ-62DR-EA



■ Dimensions



Unit inch

Controls available on the remote controller	
Operation	· Boost operation · Control by CO_2 sensor · Function setting · Timer(ON/OFF, Auto-off, Weekly, Fan speed) · Language selection*1
Display	· CO_2 concentration indication · Filter cleaning sign · Error indication/Error history · OA temp. display · Screen contrast adjustment

*1: 11 languages

Filter PZ-F110RF-E / PZ-F110MF-E

LOSSNAY			Filter				
Model	Filter		Name	Model	Material	Classification	
	Standard Setting	Optional Setting				ASHRAE 52.2:2017	ISO 16890: 2016
 LGH-FMX series	•		Standard Filter (MERV10 Filter)	PZ-F110RF-E	Synthetic fiber	MERV10	-
		•	High Efficiency Filter (MERV14 Filter)	PZ-F110MF-E	Synthetic fiber	MERV14	-

Filter							Purchase number for replacement	Installation location			
Image	Model	Applicable model	Dimension inch L	W	H	Pieces in one package		Number of filters	OA	RA	SA
 Standard Filter (MERV10 Filter)	PZ-F110RF-E	LGH-F110MXL-E LGH-F110MXR-E	11.5	8.4	0.8	2	1	2	1	1	-
 High Efficiency Filter (MERV14 Filter)	PZ-F110MF-E	LGH-F110MXL-E LGH-F110MXR-E	11.5	8.4	0.8	2	1	2	1	1	-

▶ FOR IMPROVED AIR QUALITY AND CORE LIFE UPGRADE TO MERV 14

CO_2 sensor

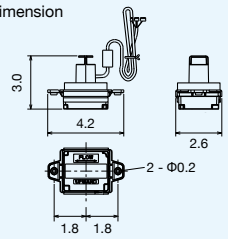
A CO_2 sensor optimizes the fan speed according to the level of CO_2 detected.
LOSSNAY PCB can supply power to the CO_2 sensor.

<Duct-mounted type> PZ-70CSD-E



Mounted in the duct with all the wiring hidden in the ceiling.

■ Dimension



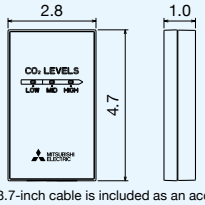
Unit inch

<Wall-mounted type> PZ-70CSW-E



Mounted on the wall. CO_2 is monitored in 3 levels.

■ Dimension



*A 393.7-inch cable is included as an accessory.

Unit inch

www.MitsubishiElectricVentilation.ca

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