Heating and Cooling

Submittal Data: LGH-F940RVXT2-E

Energy Recovery Ventilator

Job Name:	Location:	
Schedule Reference:	Submitted By:	
Submitted To:	Reference: Approv	val: Construction:
Engineer:	Date:	Application:



• Lossnay[®] cross-flow energy recovery core

- Operation Mode available are Heat Recovery, Bypass or Auto
- Minimal cross contamination (<1% overall) between entering and leaving air streams
- Stand alone or interlocks with all Mitsubishi product
- External input bypass damper control

• Muilt-ventilation modes

M-Net or Stand-alone control

Images provided for reference purposes only

Specifications:			
Capacity	CFM (m ³ /hr)	942 (1600)	
Power Source		208-240 V Three-phase 60 Hz	
Maximum Power Consumption	kW	0.65	
Power Consumption	kW	0.044 - 0.132 - 0.327 - 0.641	
Current (208-240V) (L1) (L2) (L3)	А	(2.3-2.0) (2.3-2.0) (3.2-2.8)	
Minimum Circuit Ampacity (MCA) ¹	А	4.0	
Maximum Overcurrent Protection (MOCP)	А	15	
Air Volume	CFM	235 - 471 - 706 - 942	
Temperature Recovery Efficiency (Heating)	%	87.0 - 84.5 - 82.5 - 81.5	
Temperature Recovery Efficiency (Cooling)	%	81.5 - 79.5 - 75.0 - 71.0	
Enthalpy Recovery Efficiency (Heating)	%	84.0 - 83.0 - 80.5 - 79.0	
Enthalpy Recovery Efficiency (Cooling)	%	78.0 - 72.5 - 66.5 - 62.0	
Noise Level	dB(A)	19.5 - 25.5 - 32.5 - 38.5	
External static pressure	In. W.G	0.05 - 0.18 - 0.41 - 0.72	
External Finish		Galvanized steel sheet	
	W: In. (mm)	78 47/64 (2000)	
Unit Dimensions	D: In. (mm)	65 1/8 (1654)	
	H: In. (mm)	16 57/64 (429)	
Net Weight	Lbs. (kg)	393 / 178	
Energy Transfer (Lossnay [®] core)		Special treated paper plate heat exchanger	
Heat Exchange System		Air-to-air total heat exchange (sensible heat + latent heat)	
Heat Exchange Material		Partition, spacing plate-cellulose fibe membrane	
Blower	9 5/8 in. (9 5/8 in. (245 mm) dia. centrifugal fan	
Motor		EC motor	
Filter		Non-woven fabrics filter (MERV 7, ISO Coarse 65% (ISO 16890:2016))	
Entering Air Temperature Operation Range		14° F to 104° F (-10° C to 40° C), RH 80% or less	
Model No.	Description: (Optional Accessories)		
PZ-250TRFA-E	MERV 7 Filter		
PZ-250TPF-E	MERV 16 Filter		
PZ-62DR-EA	Remote Controller		
PZ-70CSW-E	CO2 Sensor, Wall-mounted	CO2 Sensor, Wall-mounted	
PZ-70CSD-E	CO2 Sensor, Duct-mounted	CO2 Sensor, Duct-mounted	
PZ-4GS-E	Signal Output	Signal Output	

Note:

1. All electrical work shall comply with National (CEC) and local codes and regulations.

2. Fan Speed: extra low - low - high - extra high @ 208V - 230V.

3. Low temperature operation with field installed insulated duct, see local sales rep for details.

4. Ventilation air to be introduced independent of or in series with VRF indoor units. Please refer to local codes for the required ventilation rates specific to the application. 5. Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s). Use of non - MESCA supported components and accessories will affect warranty coverage.

MESCA recommends

(A) consideration of all applicable design and application parameters and requirements specific to any project; and

(B) implementation of any countermeasures needed to address those parameters and requirements, wherever applicable.

6. All components of the system must be compatible. For more details on system control compatibility, please refer to Technical Bulletin 100-151 available on our website.

NOTE: Items denoted in this submittal by an asterisk (*) are provided as specific instances or examples of system compatibility, and are not intended to represent a complete or exhaustive list of compatibility requirements.

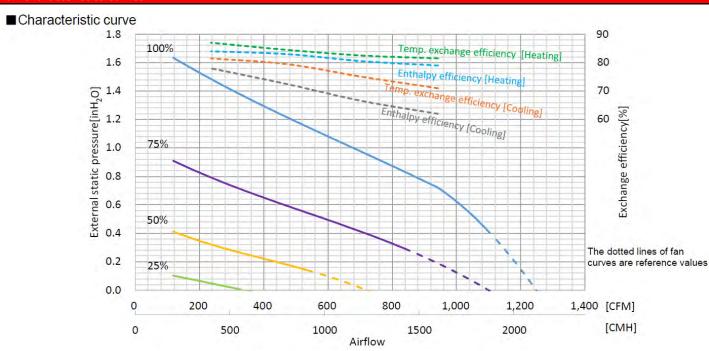
7. Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes. MESCA assumes no responsibility for any consequences in such cases.



Fan Characteristics Curves:

Heating and Cooling

MITSUBISHI ELECTRIC



Attention

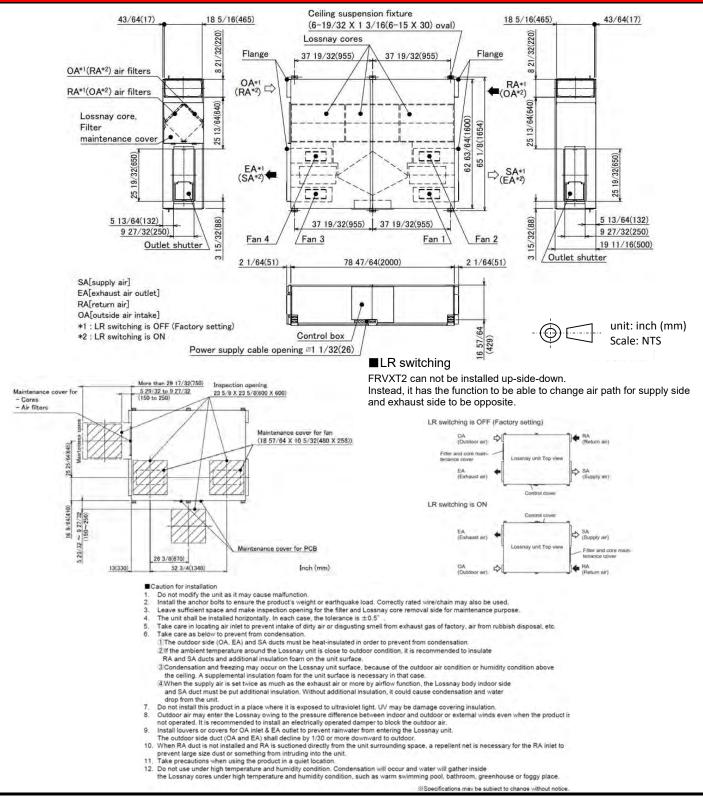
- 1. The input power, the efficiency and the noise are based on the rating air volume, 208V/60Hz. Noise (A-weighted sound pressure level) is measured 1.6yd (1.5m) off from the center of the unit in an anechoic chamber.
- Heat recovery ventilation mode starts automatically while detecting OA temperature lower than 47°F(8°C), even Bypass mode is selected. Remote controller continues to display "Bypass ventilation" in this case.
- 3. Do not use the booster fan to exceed airflow rate/pressure shown in Q-H diagram of the unit.
- 4. In bypass mode, the maximum air flow is 70% of heat recovery mode. See "Bypass operation" section for more detail.
- 5. Power supply must be connected to 3 phase power line but the unit uses it as 2 lines of single phase power. See "Wiring diagram" section for more detail.
- 6. It is prohibited to use the unit where salt, sulphur or hot spring steam damage is expected.
- 7. Do not use with acid, alkalis, organic solvent, oil mist, paint, or harmful gas as pesticide, corrosive gas, etc.
- 8. In cold area or strong wind area, outdoor air may enter the unit because of the pressure difference or external wind even
- when the unit stops. It is recommended to install an electrically damper to block outdoor air in such cases.
- Avoid to install air inlets and outlets where insects are likely to gather like a place near interior or exterior lights. In that case, select hoods or louvers which have repellent net.

Specifications may be subject to change without notice.



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Unit Outline and Dimensions:







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