

MODEL	VL-80U5-E
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Type	Energy recovery ventilator
Heat exchanger material	Total heat exchanger
Cladding	Synthetic resin
Heat insulation material	Polystyrene foam
Motor	AC motor
Blower	170mm diameter centrifugal fan
Filter	Non-woven fabrics filter for supply air [ISO Coarse 60% (ISO16890:2016)]
Pipe	Synthetic resin
Outside air condition	From -10°C to +40°C
Return(Suction) air condition	From 0°C to +40°C
Surrounding air condition	Indoor temperature and humidity should not exceed the dew point temperature 6°C (e.g. RH40% / 20°C)
Dimensions (Width x Height x Depth)	620mm x 265mm x 200mm
Electrical power supply	220-240V~ 50Hz, 220V~ 60Hz
Dielectric strength	AC 1000V 1 minute

■ Specification									
Electrical power supply	220V / 50Hz		230V / 50Hz		240V / 50Hz		220V / 60Hz		
Fan speed	High	Low	High	Low	High	Low	High	Low	
Supply airflow (m <sup>3</sup> /h)	78	45	80	49	81	54	83	46	
Extract airflow (m <sup>3</sup> /h)	78	45	80	49	81	54	83	46	
Power consumption (W)	27	14	28	15.5	30	17	34	17.5	
Temperature exchange efficiency (%)	63	70	62	70	62	67	62	70	
Noise level at 1.5m (dB)	36.5	24	37	26	38	28	38	25	
Weight (kg)	6.7 kg (Energy recovery ventilator) 2.1 kg (wall mounted plate, weather covers, pipes, screws, etc)								
Specific energy consumption class	C								

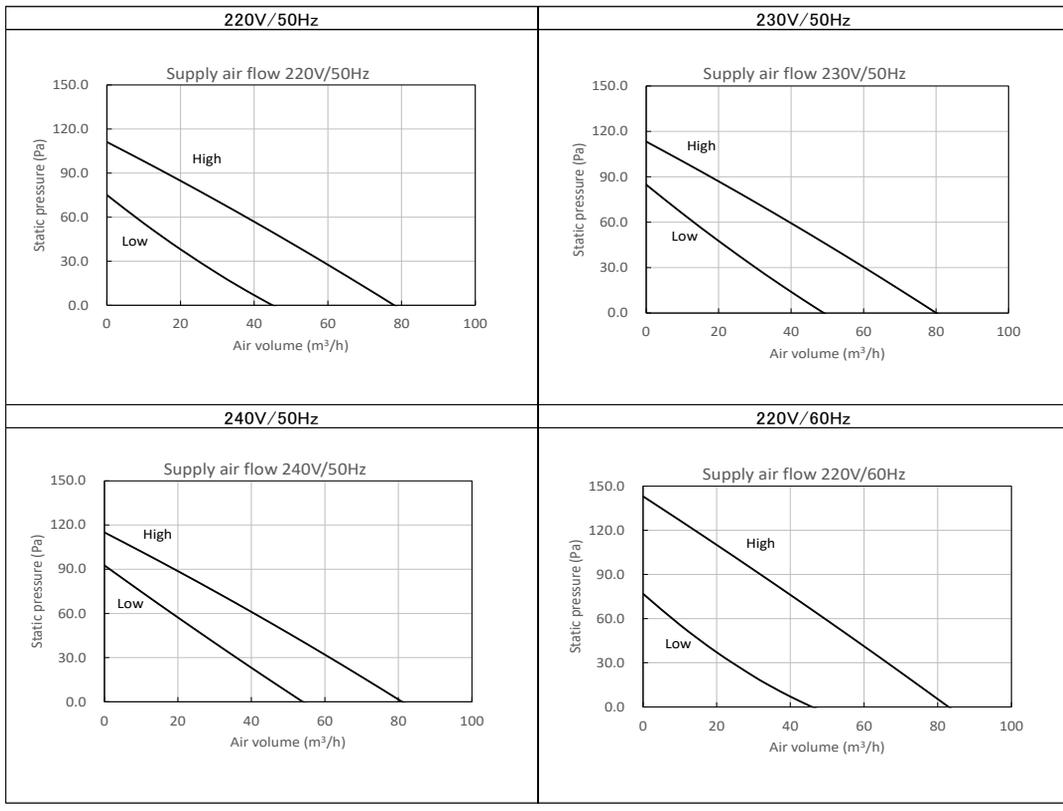
■ Attention

1. The above values are at factory default.
2. The power consumption, the temperature exchange efficiency and the noise level are based on the airflow.
3. The noise level at 1.5m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-8:2022.
6. The noise level (A-weighted sound pressure level) is calculated using the sound power level.  
The sound power level measurement is performed according to ISO3744 and ISO13347-3 with hemi-anechoic chamber.

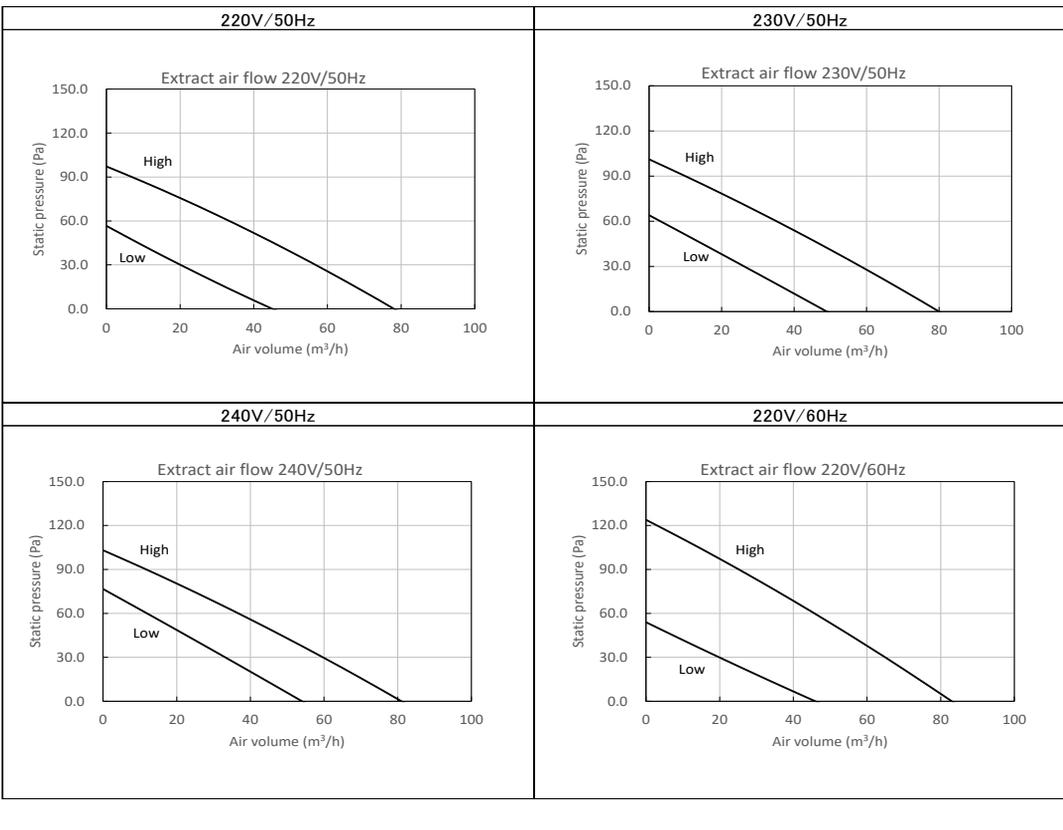
SPECIFICATIONS	※Specification may be subject to change without notice.		
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■ Characteristic curve

Supply air flow



Extract air flow



■ Attention

- Mitsubishi Electric measures figures in the chart according to EN13141-8:2022, and the characteristic curves are measured by chamber method.

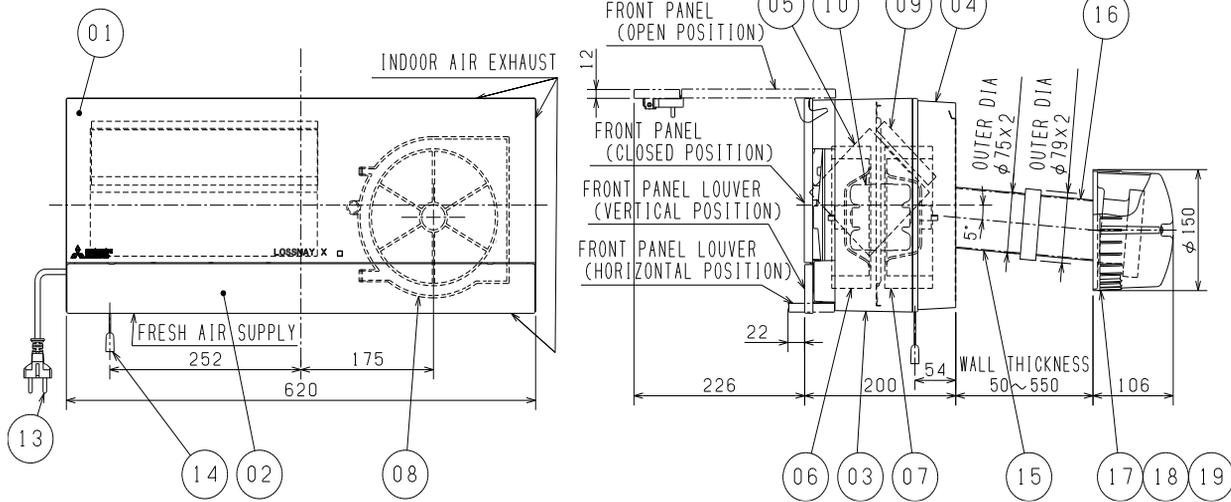
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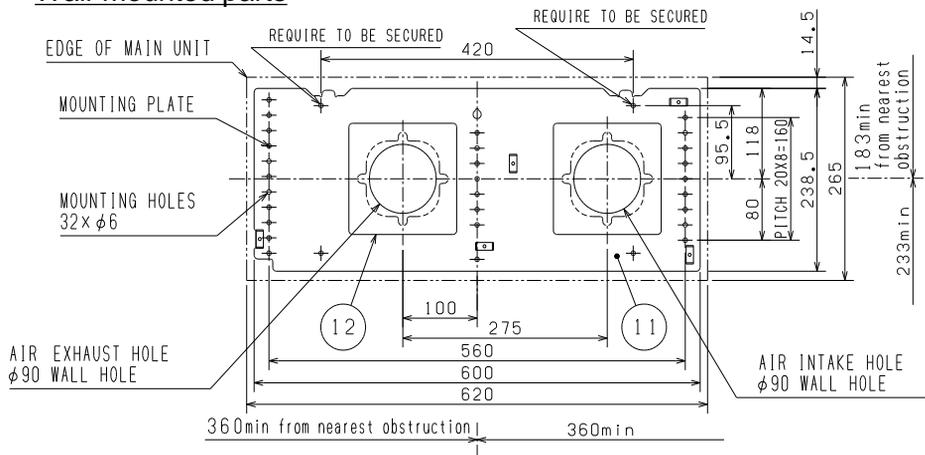
## Outline drawings

	UNIT	SCALE
	mm	N.T.S

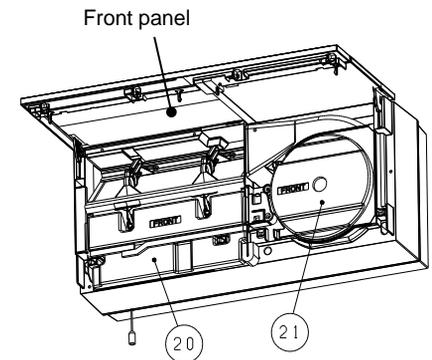
### Ventilator Lossnay and weather cover



### Wall-mounted parts



### SA cover and RA cover



The image above shows the front panel open.

### Parts List

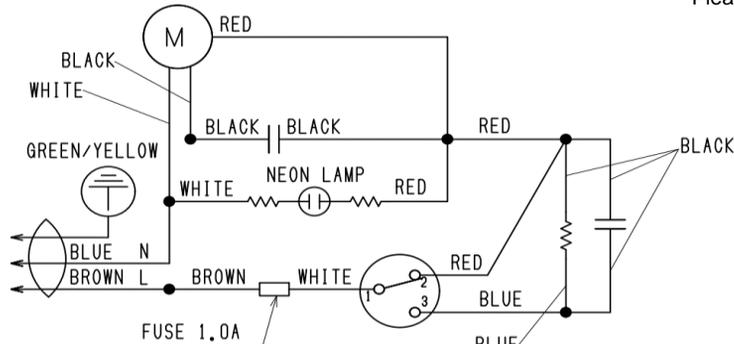
No.	PARTS NAME	MATERIAL	REMARKS
01	Front Panel	Synthetic Resin	Munsell 0.8GY 9.0/0.5
02	Front Panel Louver	Synthetic Resin	Munsell 0.8GY 9.0/0.5
03	Front Casing	Synthetic Resin	Munsell 0.8GY 9.0/0.5
04	Back Casing	Synthetic Resin	Munsell 0.8GY 9.0/0.5
05	Heat Exchanger	Specially Treated Paper	
06	Fan For EA	Synthetic Resin	*1
07	Fan For SA	Synthetic Resin	*1
08	Filter For EA	Synthetic Resin	*1
09	Filter For SA	Non-Woven Fabric	*1
10	Motor		

\*1 OA : Outdoor Air, SA : Supply Air, RA : Return Air, EA : Exhaust Air

No.	PARTS NAME	MATERIAL	REMARKS
11	Mounting Plate	Galvanized Steel Sheet	
12	Pipe Mounting Plate	Galvanized Steel Sheet	
13	Power Supply Cord		
14	Pull Switch Cord		
15	OA / EA Pipe A	Synthetic Resin	*1
16	OA / EA Pipe B (For Extension)	Synthetic Resin	*1
17	Weather Cover	Synthetic Resin	
18	Mounting Plate for Weather Cover	Synthetic Resin	
19	Flange Nut	Synthetic Resin	
20	Air flow cover (SA)	Polystyrene foam	*2
21	Air flow cover (RA)	Polystyrene foam	*2

\*2 This component reduces the intrusion of cold air from the outside air when the product is stopped. This part can be installed by opening the front panel. After installation, close the front panel. Please check the instruction manual for details.

### Wiring diagrams



### OUTLINE DRAWINGS



DATE

12-Jul-24

TYPE

MODEL

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Energy Recovery Ventilator LOSSNAY  
VL-80U5-E

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■ Attention

1. The installation work must be done by an authorized dealer or qualified contractor. Errors in installation can lead to breakdowns and accidents.
2. Installation by the customer can lead to breakdowns and accidents.
3. Electrical work must be done by a qualified and licensed electrician employed by the dealer or contractor.
4. The VL-80U5-E has a built-in plug and requires only a simple plug-in to an electrical outlet. Accordingly, no electrical work by a qualified and licensed electrician is necessary.
5. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified persons in order to avoid a hazard. (VL-80U5-E only)
6. Use 220 to 240V AC Power.
7. Do not cut, damage or physically alter the power cord or subject it to unreasonable bending, pulling, twisting or bundling. (VL-80U5-E only)
8. Do not turn the Lossnay switch ON or OFF if there is a flammable gas leak.
9. Do not let the unit get wet.
10. Immediately halt use in the event of malfunction or breakdown.

■ Caution for installation

【Ventilation design】

1. Do not install the unit and wall switch in a bathroom or other highly humid location.
2. Install the unit only on a wall. Do not install it on a ceiling.
3. Do not install the unit in excessively hot areas (40°C or more), near open flames, in areas prone to oily smoke, or where it could come in contact with organic solvents.
4. Attach the unit so that the air supply/exhaust pipes slope downward toward outdoors.
5. Install the outdoor weather covers packaged with the unit.
6. For VL-80U5-E, install an electrical outlet somewhere that the power cord plug can reach. (The cord has an effective length of 3 m.)
7. Do not place combustion equipment in the direct path of the air from the unit.

【Installing the Lossnay unit】

1. Connect the product properly to ground.
2. Make sure the outside air intake opening is positioned so that it will not take in combustion gases or other exhaust. Position the unit so that it will not become covered with snow.
3. Install the unit securely to a sufficiently strong wall surface.
4. Connect wires securely to terminal block connections so they do not come out. (VL-80EU5-E only)
5. Use circuit breakers connected to the power supply to protect against short circuits. (VL-80EU5-E only)
6. Always place a cover on the terminal block after construction work is complete. (VL-80EU5-E only)
7. When attaching the main unit on the wall, press the main unit against the wall and secure it firmly with the five screws.
8. Make sure that the mounting surface of the mounting plate is flat.
9. Make the holes so they slope down as they exit the outside wall.

■ Care and attention on the use of Lossnay unit

1. Do not disassemble the unit more than necessary or modify it.
2. Be sure to shut off circuit breakers or remove the power plug from the wall outlet if the Lossnay will not be used for a long period after installation.
3. Never remove the power plug by pulling on the cord. Always grasp the plug itself. (VL-80U5-E only)
4. If the outside air is cold, winds are strong, snow or rain is falling heavily, or there is mist or fine snow, turn the Lossnay off and set the air flow cover.
5. Wear gloves when maintaining the unit.
6. Small particles and bugs may penetrate the filter. If you are bothered by bugs entering, using the optional filter (P-80HF-E) is recommended. (It reduces the number of bugs that can enter.)

Please check the instruction manual and installation manual for details.

SAFETY NOTES		※Specification may be subject to change without notice.	
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