

## HEAT RECOVERY VENTILATORS



**Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.**

### Quiet Operation

Noise is one of the most common concern for residential ventilation. Ultra quiet operation is achieved with the sirocco fan designed by Mitsubishi Electric. The balance between airflow and the static pressure is optimized and the fan rotation is minimized, which leads to a low noise level.

### Air Purification

The optional filter corresponding to NO<sub>x</sub> and PM<sub>2.5</sub> removes the substance and improves the indoor air quality. They can be incorporated inside the unit without any filter box, which saves space.

\*NO<sub>x</sub>: Nitrogen oxide which includes nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>) etc.  
\*PM<sub>2.5</sub>: Airborne particulates that are 2.5µm or smaller in size.

### Wi-Fi Control

MELCloud is a Cloud-based solution for controlling Lossnay either locally or remotely by computer, tablet or smartphone via the Internet. You can control and check Lossnay via MELCloud from virtually anywhere an Internet connection is available. With MELCloud, you can use Lossnay much more easily and conveniently.

# Key Features

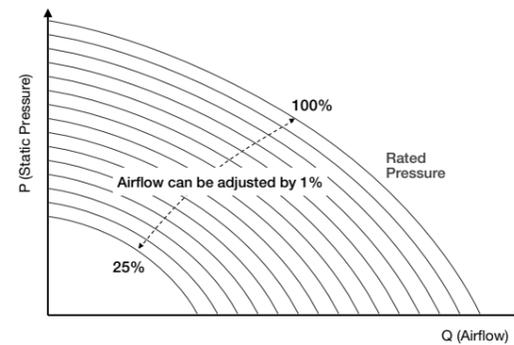
## Energy Efficient

Under regulation (EU) NO 1254 / 2014, VL-CZPVU series has the highest energy-saving performance in its class. (ErP A+) It saves heating and cooling cost by minimizing the energy loss that occurs during ventilation.



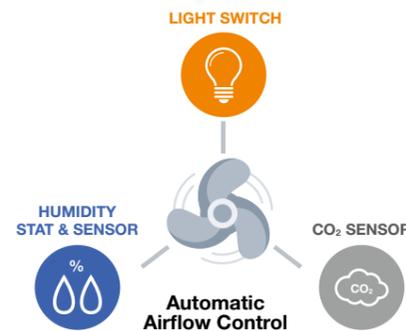
## Variable Airflow Control

The default fan speed value (Fan speed 1: 30%, Fan speed 2: 50%, Fan speed 3: 70%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted more flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% to satisfactorily meet the designed airflow rate. This enables to simplify the airflow setting in commissioning.



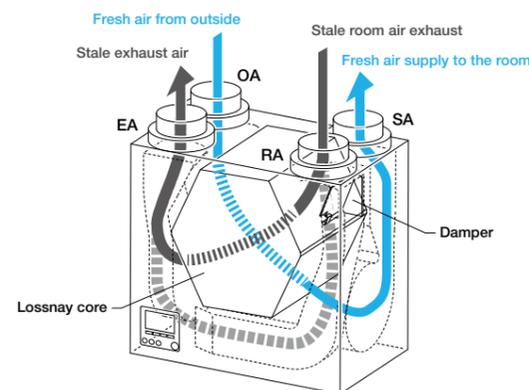
## External Airflow Control

Using a 0-10V signal from the controllers such as the humidity stats and CO<sub>2</sub> sensors, the airflow of the Lossnay unit can be changed. It is also connected to the light switch and can change to the boost operation (Input 220-240V). They are connected directly to the Lossnay units allowing the fan speed to automatically change according to the bathroom occupation, the CO<sub>2</sub> level, and the humidity level.



## Automatic Bypass Mode

It is possible to select manual switching or automatic switching between “Lossnay ventilation (with heat exchange)” and “Bypass ventilation (without heat exchange)”. When the outside air is cooler than the indoor air in summer, the unit will bypass the heat exchanger and draw in outside air directly.



\* The figure shows VL-350CZPVU-L-E

## Wide Operating Temperature Range

The VL-CZPVU series operating temperature range is down to -15°C. With a pre-heater, it is available down to -25°C.

- \* In areas where the outdoor air is below -20°C, electric shutters (local supply) is required in the OA duct in addition to the pre-heater.
- \* With the pre-heater, the OA temperature must be higher than -15°C.

## MELCloud for Lossnay

MELCloud enables fast, easy remote control and monitoring for Lossnay. All you need is wireless computer connectivity in your home where Lossnay is installed and Internet connection on your mobile or fixed terminal. It can also be controlled with room air conditioner/ecodan simultaneously.



\* MELCloud uses the MAC-567IF-E interface

### Key Control and monitoring features

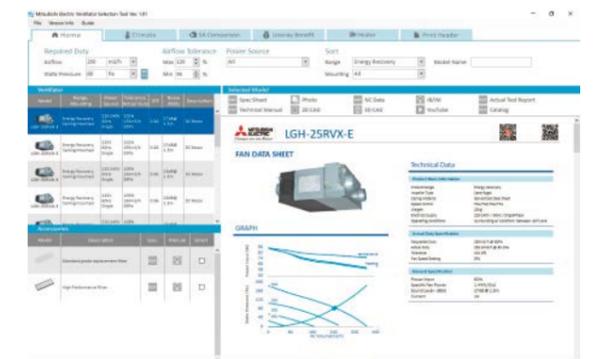
1. Turn system on/off
2. Change the airflow & operating mode (Heat recovery / Bypass)
3. See the status of the filter/core (Maintenance notification)

## New Ventilator Selection Software

The new selection tool enables the user to see the specification of the duty point including SFP, noise level, and exchange efficiency. It also provides the certification documents and CAD data for each models.

### Easy 3 steps

1. Input the required airflow and pressure.
2. Select model which matches the request.
3. Output the “Fan Data Sheet” by PDF.



## YouTube Channel

In the new YouTube channel “Mitsubishi Electric Nakatsugawa Works”, videos about ventilation products, remote controller commissioning, how to use the software is available.

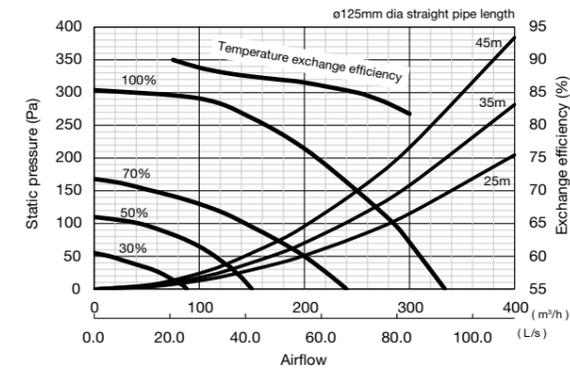


Model **VL-250CZPVU-R/L-E**

Specifications

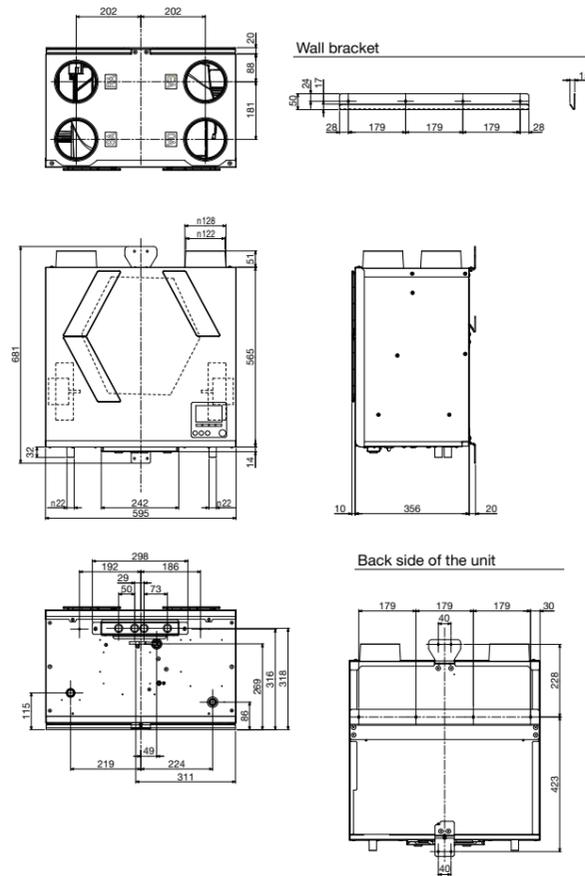
Electrical Power Supply	220-240V/50Hz, 220V-/60Hz				
Ventilation Mode	Heat recovery mode				
Fan Speed	FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)	
Running Current (A)	0.76	0.35	0.20	0.12	
Input Power (W)	106	44	23	11	
Airflow	(m <sup>3</sup> /h)	250	175	125	75
	(L/s)	69	49	35	21
External Static Pressure (Pa)	150	74	38	14	
Temperature Exchange Efficiency (%)	85	87	88	90	
Noise Level (dB)	31	22	16	15 >	
Energy Efficiency Class	A+				
Weight (kg)	26				
Dimensions (mm)	(H) 565 x (W) 595 x (D) 356				

PQ Chart

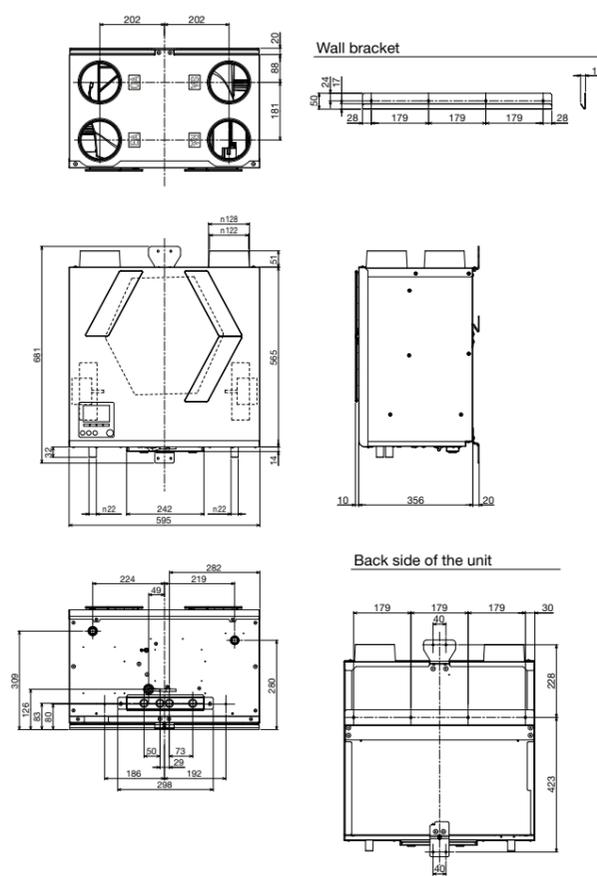


Dimensions

VL-250CZPVU-R-E



VL-250CZPVU-L-E

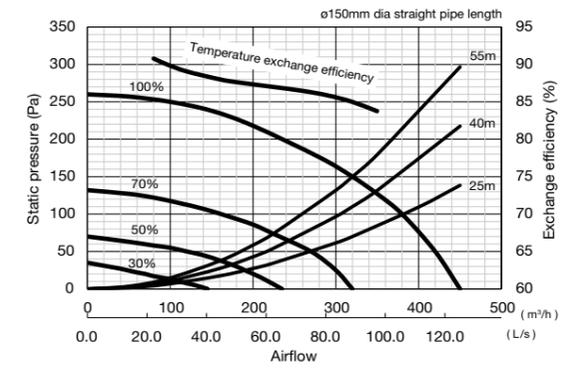


Model **VL-350CZPVU-R/L-E**

Specifications

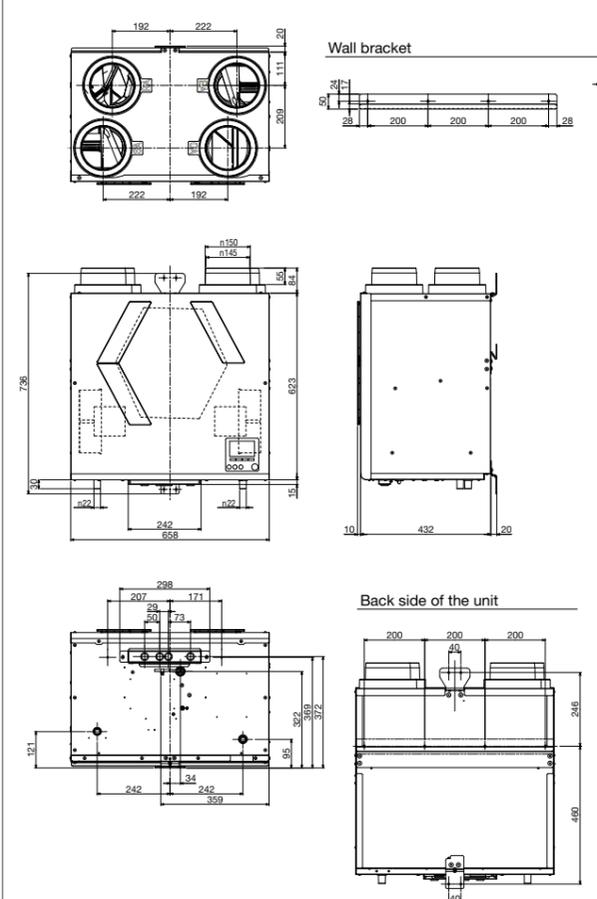
Electrical Power Supply	220-240V/50Hz, 220V-/60Hz				
Ventilation Mode	Heat recovery mode				
Fan Speed	FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)	
Running Current (A)	1.08	0.52	0.31	0.18	
Input Power (W)	155	71	37	19	
Airflow	(m <sup>3</sup> /h)	320	224	160	96
	(L/s)	89	62	44	27
External Static Pressure (Pa)	150	74	38	14	
Temperature Exchange Efficiency (%)	85	87	88	90	
Noise Level (dB)	35	26	19	15 >	
Energy Efficiency Class	A+				
Weight (kg)	32				
Dimensions (mm)	(H) 623 x (W) 658 x (D) 432				

PQ Chart

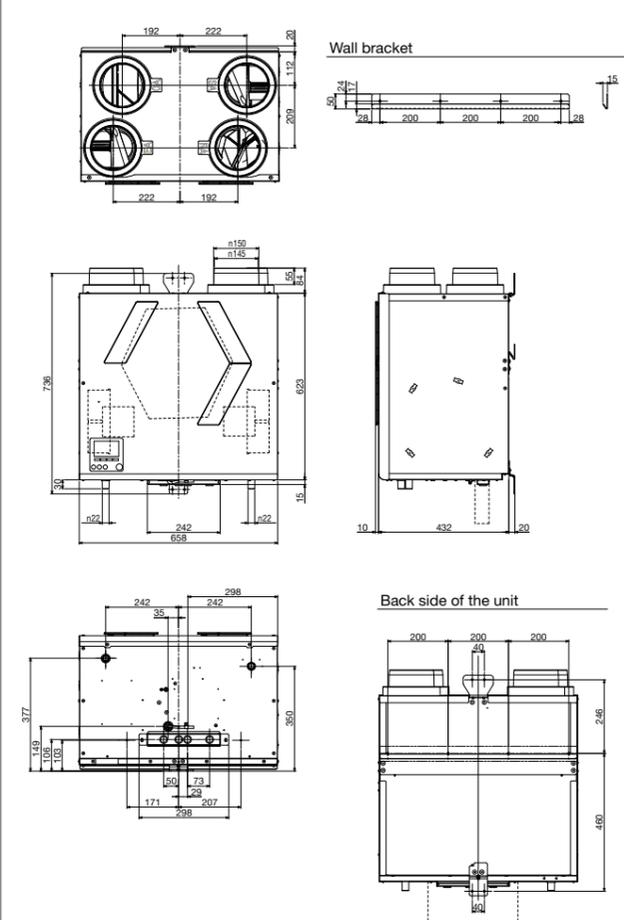


Dimensions

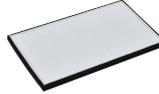
VL-350CZPVU-R-E



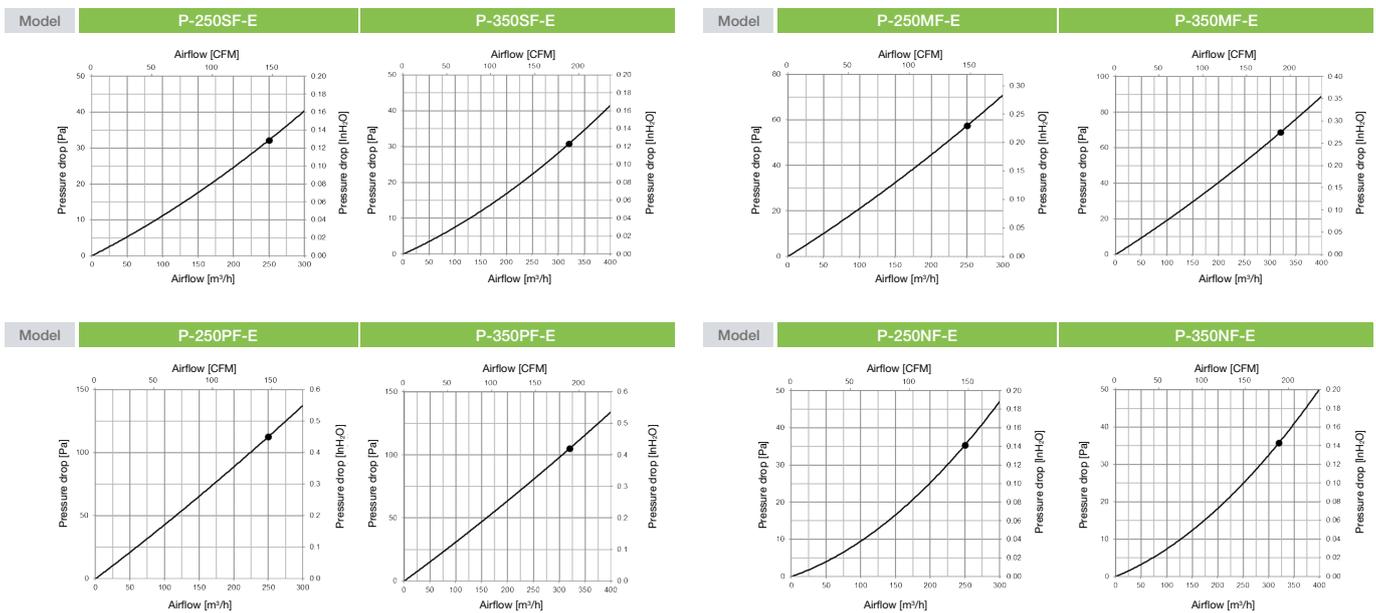
VL-350CZPVU-L-E



Filters

Type	Replacement Filter	Standard Filter	Medium-efficiency Filter	Advanced High-efficiency Filter	NOx Filter
					
Model	P-250F-E P-350F-E	P-250SF-E P-350SF-E	P-250MF-E P-350MF-E	P-250PF-E P-350PF-E	P-250NF-E P-350NF-E
Classification	EN779 (2012) ISO 16890	G3	G4	M6	M6
	Coarse 55%	Coarse 90%	ePM10 80%	ePM2.5 50%	NO <sub>2</sub> 90%

Pressure loss characteristic



Attenuator Box

With the attenuator box, the noise level is further decreased.

P-250/350SB-E

Remote Controller Cover

With Remote Controller Cover, the remote controller can be installed apart from the unit.

P-RCC-E



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

**MITSUBISHI ELECTRIC CORPORATION**

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