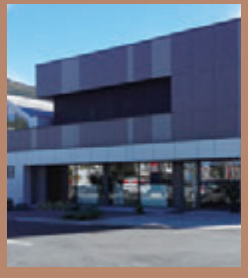
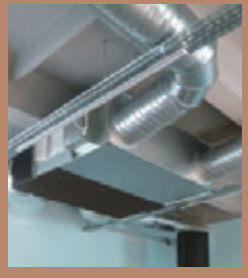
LOSSNAY SYSTEM





SELECTION

LOSSNAY lineup consists of two types of ventilation: Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV). Choose the model that best matches your building layout and indoor environment.

PRODUCT LINEUP

LOSSNAY

Energy Recovery Ventilation	Heat Recovery Ventilation		Energy Recovery Ventilation
Centralized Ventilation			Decentralized Ventilation
Ceiling Concealed		Vertical Type	Wall mounted Type

LGH-RVX3 Series
A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

LGH-RVXT Series
Thin, large airflow models of the LGH series that deliver high performance and functions.

GUF Series
(LOSSNAY with Dx-Coil Unit)
Heat recovery units with a heating and cooling system that uses the CITY MULTI outdoor units as a heat source.

LGH-RVS Series
Sensible heat models of the LGH series that can also be installed in sanitary areas.

VL-CZPVU Series
Vertical type for residential use. Centralized ventilation with sensible heat exchange.

VL-100(E)U5-E
Wall mounted models. Particularly suitable for houses and small offices.

VL-50(E)S2-E
VL-50SR2-E

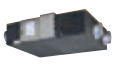
Plasma Quad Protect

Air purifier

JC-23KR-EU

JC-4K-EU

LOSSNAY LINEUP

Application		Model / Airflow	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	1600 CMH	2000 CMH	2500 CMH
Centralized Ventilation	Ceiling Concealed	LGH-RVX3 Series 			●	●	●	●	●	●	●		●	●	
		LGH-RVXT Series 										●		●	●
		LGH-RVS Series 						●		●	●				
		GUF Series 						●			●				
	Vertical Type	VL-CZPVU Series 				●	●	●							
Decentralized Ventilation	Wall mounted Type	VL-100(E)U5-E		●											
		VL-50(E)S2-E VL-50SR2-E	●												

Commercial Use LOSSNAY

Mitsubishi Electric offers Energy Recovery Ventilation and Heat Recovery Ventilation solutions for optimizing building air quality by LOSSNAY

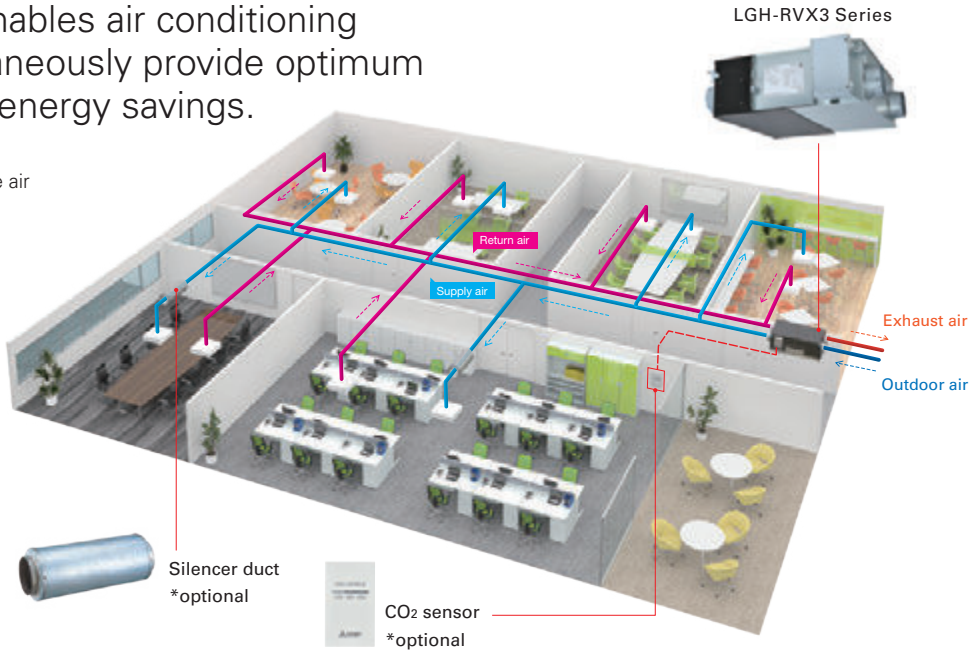
Energy Recovery Ventilation

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY core) to perform temperature (sensible heat) and humidity (latent heat) exchange.

ERV Solution

Environment friendly energy recovery and humidity control enables air conditioning systems to simultaneously provide optimum room comfort and energy savings.

- ✓ Total Heat Exchanger
- ✓ Eliminates excess humidity in the air
- ✓ Wide range of airflow lineup



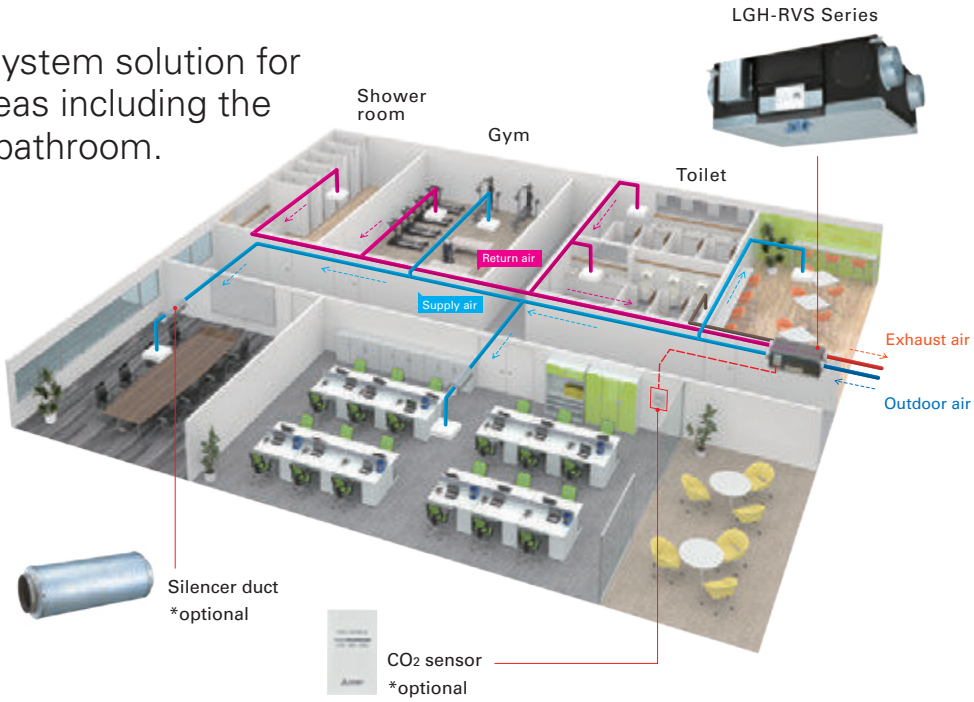
Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

HRV Solution

Offering the best system solution for ventilation of all areas including the shower room and bathroom.

- ✓ Heat Exchanger
- ✓ Installation in sanitary areas
- ✓ Control with CO_2 sensor



Residential Use LOSSNAY

Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimizing your indoor air quality by LOSSNAY.

Heat Recovery Ventilation

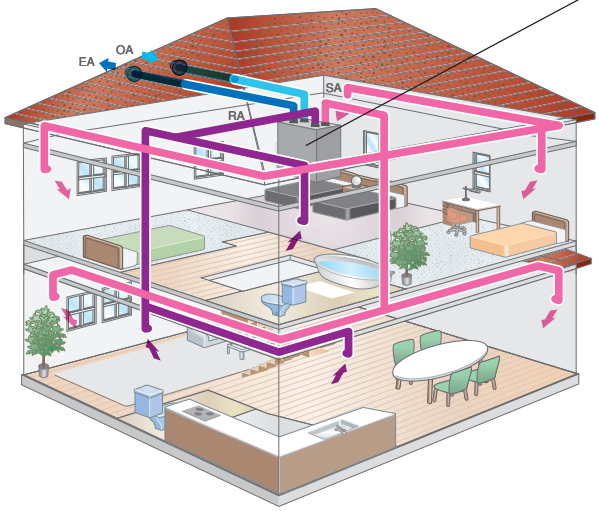
A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

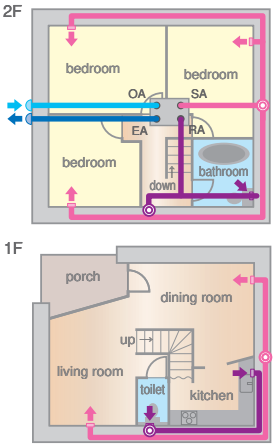
Centralized Ventilation Solution

One LOSSNAY unit provides 24-hour ventilation for the entire house, from living room and bedrooms to the bathroom. The heat recovery system provides fresh air at a comfortable air temperature. A sensible heat exchanger effectively reduces excess humidity in the winter.

VL-250/350/500CZPVU-R-E
VL-250/350/500CZPVU-L-E

- ✓ Heat Exchanger
- ✓ Whole-house Solution
- ✓ Air Purification
- ✓ Quiet Operation
- ✓ MELCloud Control



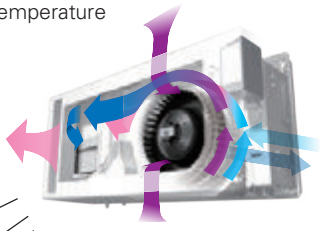


Energy Recovery Ventilation

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY Core) to perform temperature (Sensible heat) and humidity (latent heat) exchange.

Decentralized Ventilation Solution

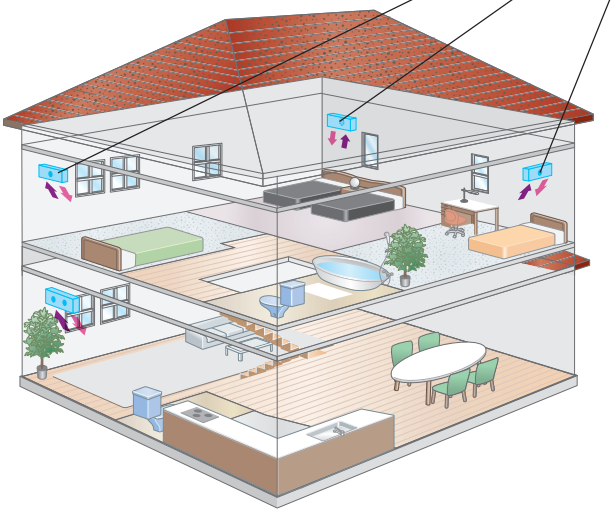
Install the wall-mounted LOSSNAY in each room. The heat recovery system provides fresh air at a comfortable air temperature. Total heat exchangers effectively reduce heat loss.

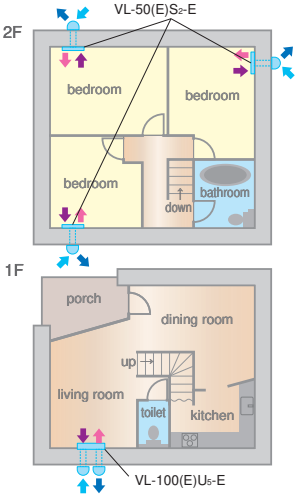


VL-50S$_2$-E (Pull-Switch Model)
VL-50ES$_2$-E (Wall-Switch Model)
VL-50SR$_2$-E (Remote Controller Model)

- ✓ Total Heat Exchanger
- ✓ Individual Ventilation
- ✓ Flexible Installation
- ✓ Easy Maintenance
- ✓ Stylish Design

VL-100U$_5$-E (Pull-Switch Model)
VL-100EU$_5$-E (Wall-Switch Model)





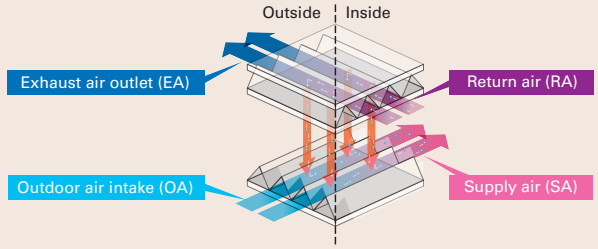
LOSSNAY

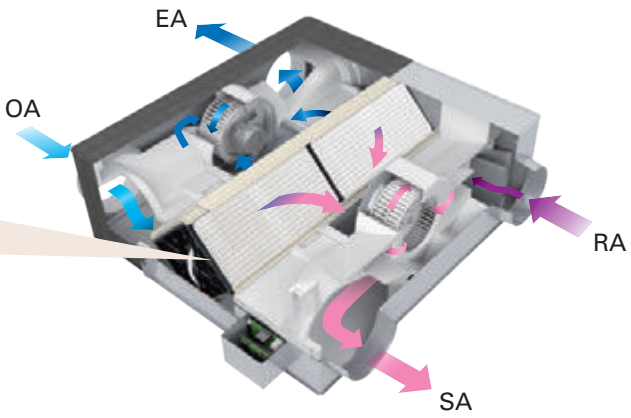
LOSSNAY ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.

Indoor air quality inside a building is optimized through temperature and humidity exchange by LOSSNAY

LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

The concept of sensible heat and latent heat exchange using LOSSNAY core



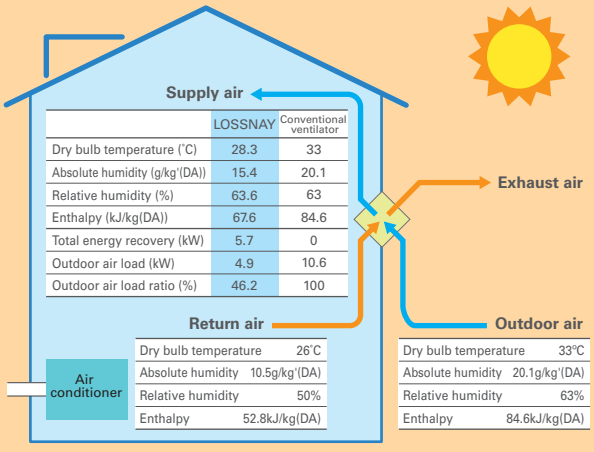


What can be improved by introducing LOSSNAY?

Ventilation with maximized comfort

In summer

Air similar to the conditions of the cooled (dehumidified) indoor air is supplied.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°C)	28.3	33
Absolute humidity (g/kg'(DA))	15.4	20.1
Relative humidity (%)	63.6	63
Enthalpy (kJ/kg(DA))	67.6	84.6
Total energy recovery (kW)	5.7	0
Outdoor air load (kW)	4.9	10.6
Outdoor air load ratio (%)	46.2	100

Return air	
Dry bulb temperature	26°C
Absolute humidity	10.5g/kg'(DA)
Relative humidity	50%
Enthalpy	52.8kJ/kg(DA)

Outdoor air	
Dry bulb temperature	33°C
Absolute humidity	20.1g/kg'(DA)
Relative humidity	63%
Enthalpy	84.6kJ/kg(DA)

Heat recovery calculation

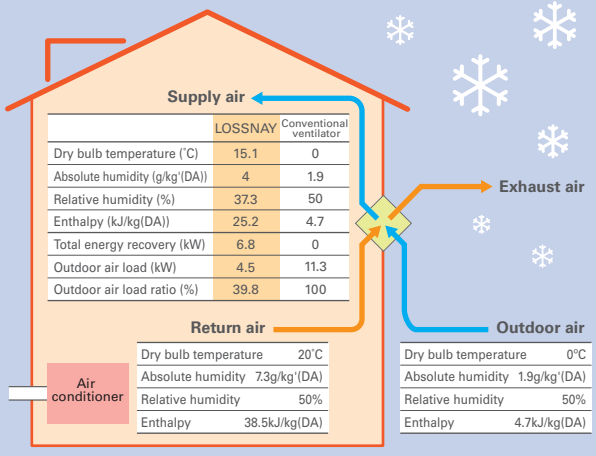
Indoor supply air temperature (°C) = Outdoor temperature (°C) − { Outdoor temperature (°C) − Indoor temperature (°C) } × Temp. recovery efficiency (%)

Calculation example: 28.3°C = 33°C - (33°C - 26°C) × 67.5%

*The above applies to the case of LGH-100RVX3-E. (1000m³/h)

In winter

Air similar to the conditions of the heated (humidified) indoor air is supplied.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°C)	15.1	0
Absolute humidity (g/kg'(DA))	4	1.9
Relative humidity (%)	37.3	50
Enthalpy (kJ/kg(DA))	25.2	4.7
Total energy recovery (kW)	6.8	0
Outdoor air load (kW)	4.5	11.3
Outdoor air load ratio (%)	39.8	100

Return air	
Dry bulb temperature	20°C
Absolute humidity	7.3g/kg'(DA)
Relative humidity	50%
Enthalpy	38.5kJ/kg(DA)

Outdoor air	
Dry bulb temperature	0°C
Absolute humidity	1.9g/kg'(DA)
Relative humidity	50%
Enthalpy	4.7kJ/kg(DA)

Heat recovery calculation

Indoor supply air temperature (°C) = { Indoor temperature (°C) − Outdoor temperature (°C) } × Temp. recovery efficiency (%) + Outdoor temperature (°C)

Calculation example: 15°C = (20°C - 0°C) × 75.5% + 0°C

*The above applies to the case of LGH-100RVX3-E. (1000m³/h)

LGH–RVX3 SERIES

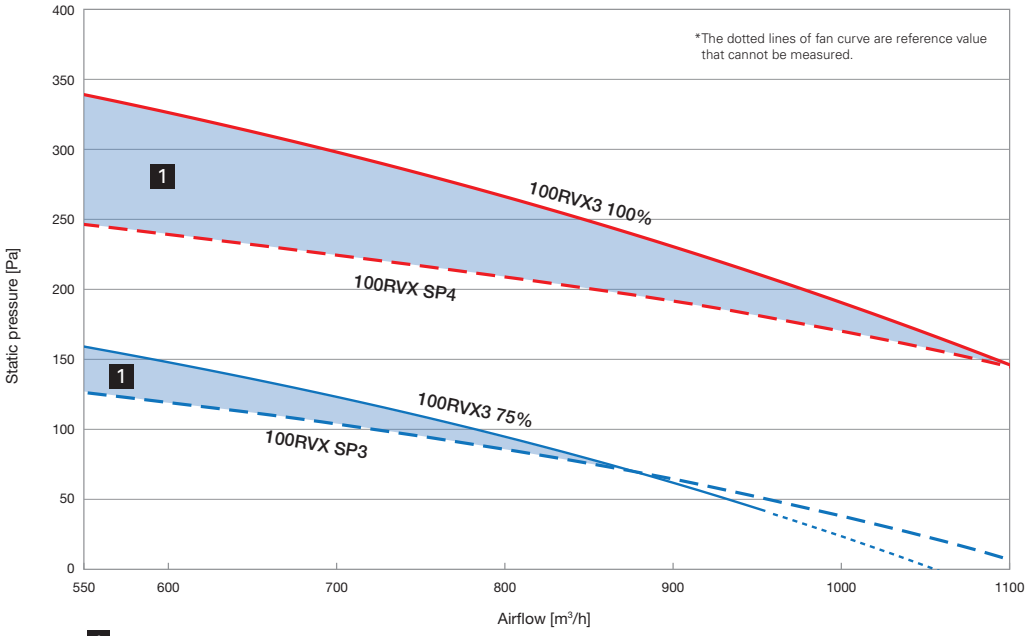
A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

LGH-15/25/35/50/65/80/100/160/200RVX3-E

Four Key Features

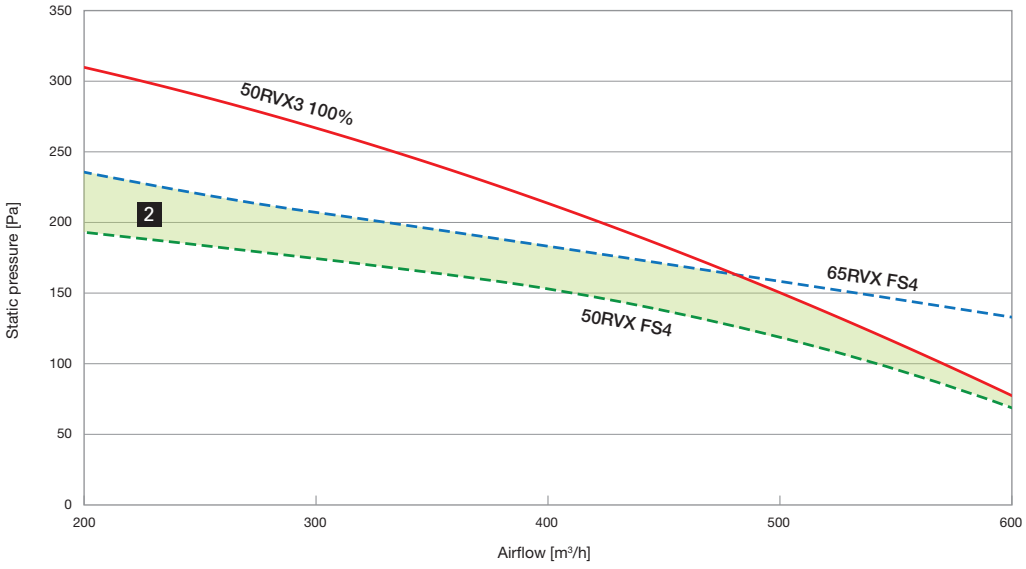
High static pressure

External static pressure has been improved compared to previous models. Accompanying this increase in external static pressure, the selection range of models and filters has also expanded. Furthermore, flexible duct work becomes possible.



1 Increased static pressure.

Smaller models can be chosen compared to previous models.



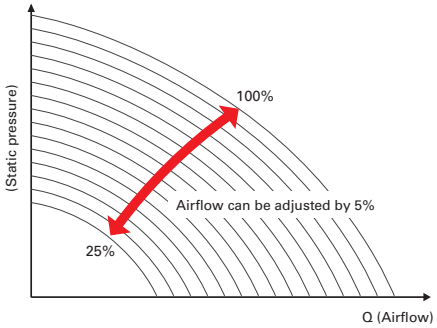
2 Where 65RVX had to be chosen previously, 50RVX3 (one size down) may now be chosen, owing to its increased external static pressure.

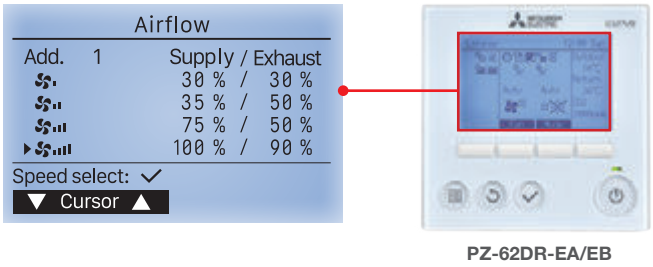
Controllability

1. Improved airflow range

Variable air control

The default fan speed value (Fan speed 1: 25%, Fan speed 2: 50%, Fan speed 3: 75%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted flexibly. Within the range between 25% and 100%, airflow can be adjusted by 5% increments to satisfactorily meet the designed airflow rate.

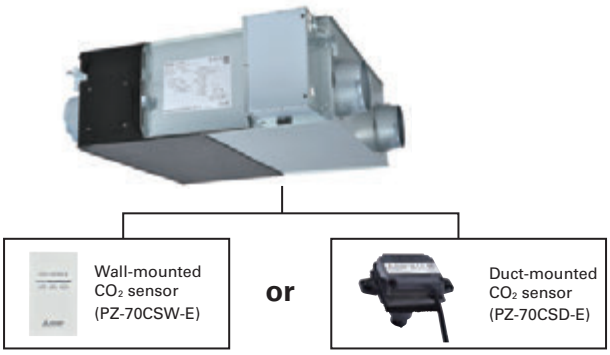




PZ-62DR-EA/EB

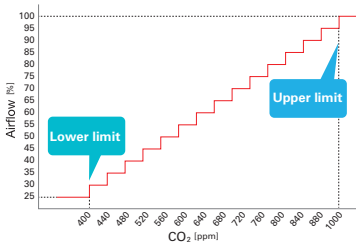
2. New CO_2 sensor

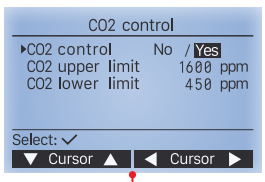
A CO_2 sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the levels of CO_2 detected.
It improves total heat exchange efficiency and contributes to energy savings.



Two types of CO_2 sensors are available: wall-mounted and duct-mounted types.
Power is supplied to the CO_2 sensor from the Lossnay board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the level of CO_2 concentration.





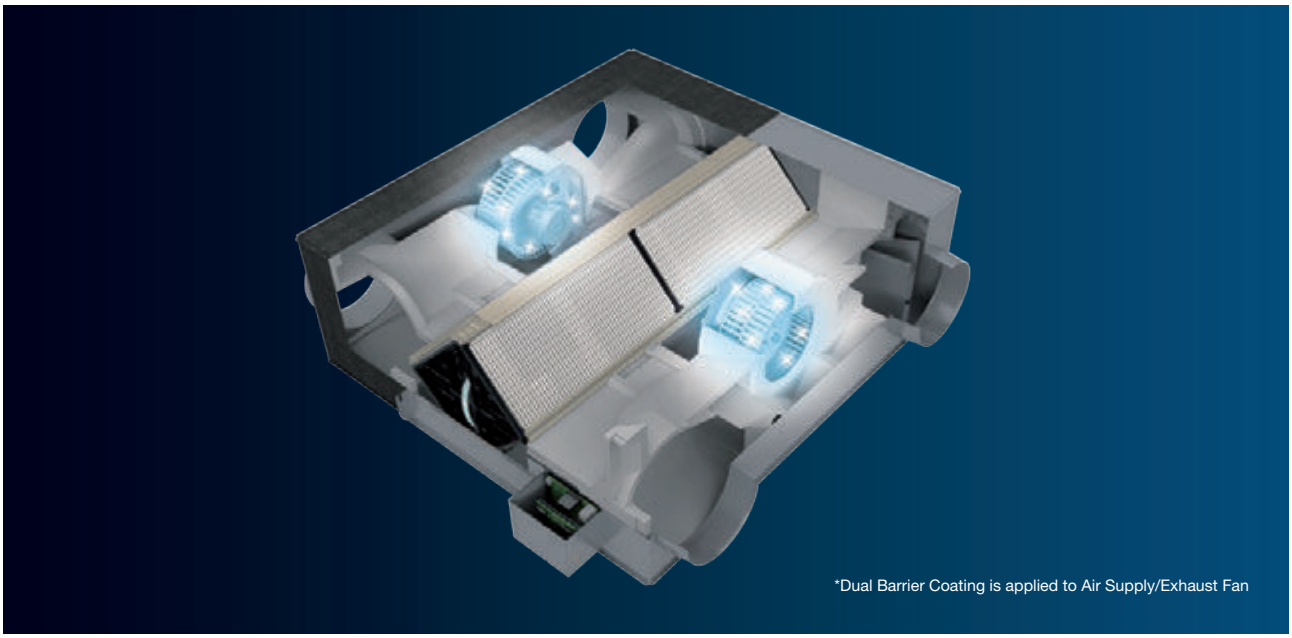
Both upper and lower limits can be adjusted.
Upper limit: from 600 to 2000 ppm.
Lower limit: from 300 to (upper limit –300) ppm.
50 ppm increments.

PZ-62DR-EA/EB

Automatic operation with CO_2 sensor

Fan speed automatically changes depending on CO_2 concentration.

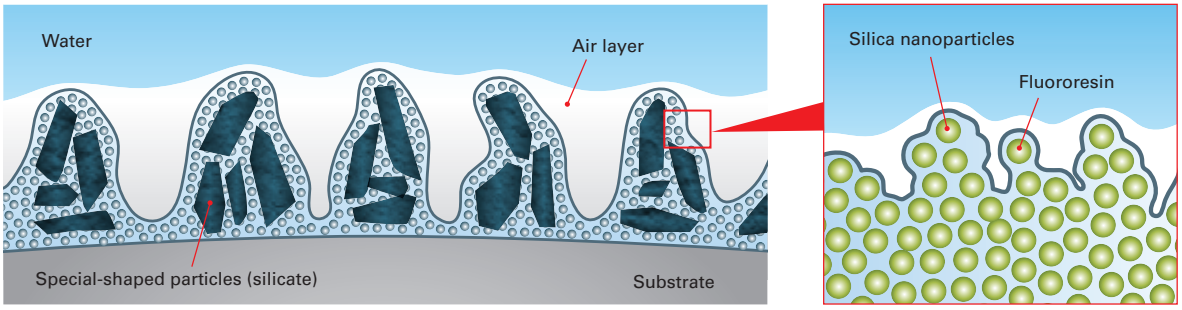
Dual Barrier Coating



Dual barrier coating

A water-repellent effect is achieved by creating a coating film that has nano-sized concave-convex structures formed by silica nanoparticles made of water-repellent fluororesin and micron-sized concave-convex structures formed by combining micron-sized special-shaped particles (silicate) with the silica nanoparticles. At the same time, the uneven structure forms an air layer that suppresses the adhesion of dust and sand that contain a lot of humidity, reducing the amount of dirt that adheres to the substrate.

■ **Conceptual image of dual barrier coating**



Upgraded filters

The standard filter has been improved from Coarse 35% to Coarse 60% (measured by ISO16890:2016).

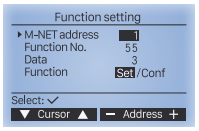
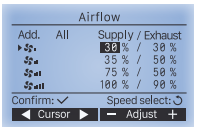
PZ-**RF3-E
Standard filter

For Installer

Improved workability

Commissioning time

Using a designed motor and new remote controller, a genius algorithm is introduced to reduce the time of airflow adjustment.

	RVX series (PZ-61DR-E)	RVX3 series (PZ-62DR-EA/EB)
Motor	Fan speed was not adjusted quickly.	Fan speed is adjusted quickly by using a designed motor.
Screen setting	 Fan speed can be set by Function setting which needs the settig table. (Not intuitive)	 Fan speed can be set by new display “Airflow setting” where user can set intuitively.

For example, when checking airflow volume twice in SA side → Commissioning time is reduced by 75%*1

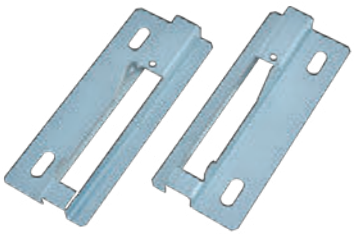
*1 The average reduction rate when our workers actually install LGH-100RVX-E and LGH-100RVX3-E.
Setting work involves changing the air volume of supply/exhaust air, and the amount of the time that can be reduced varies depending on the operator and work conditions.

	RVX series (PZ-61DR-E)			RVX3 series (PZ-62DR-EA/EB)		
SA	FS4	Adjust to original speed	173s	100%	Adjust to original speed	20s
		Check airflow volume → too much	–		Check airflow volume → too much	–
	OFF	Fan speed setting FS4 → FS3+3	61s	OFF	Airflow setting 100% → 90%	40s
	FS3+3	Adjust to set speed	94s	90%	Adjust to set speed	20s
		Check airflow volume → too much	–		Check airflow volume → too much	–
	OFF	Fan speed setting FS3+3 → FS3+1	61s	OFF	Airflow setting 90% → 80%	40s
	FS3+1	Adjust to set speed	162s	80%	Adjust to set speed	20s
		Check airflow volume → OK	–		Check airflow volume → OK	–
		Total	**551s**		Total	**140s**

Vertical Installation

By enabling vertical installation, the choices of installation location have expanded.

RVX3 can be installed vertically using optional parts.
It can be installed practically anywhere, such as in the machine room, the edges of a room, and so on.
Please follow the installation manual when you install RVX3 series vertically.



Model name	LOSSNAY
PZ-1VS-E	LGH-15RVX3-E
	LGH-25RVX3-E
	LGH-35RVX3-E
	LGH-50RVX3-E
PZ-2VS-E	LGH-65RVX3-E
	LGH-80RVX3-E
	LGH-100RVX3-E

Mitsubishi Electric Ventilator Selection Tool

Appropriate information can be obtained from the required air volume and required static pressure.

This picture is an example of LGH-80RVS-E, which is a different model from RVX3 series.

LGH-RVXT SERIES

The LGH-RVXT Series has a large airflow of 1500-2500 CMH but a thin body of approximately 500mm. Therefore, the unit can be easily installed in the ceiling.

LGH-150/200/250RVXT-E

Thin body type

■ **LGH-200RVX3-E**

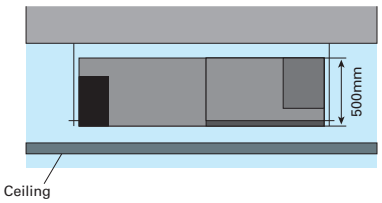
Height: 808mm

■ **LGH-150/200/250RVXT-E**

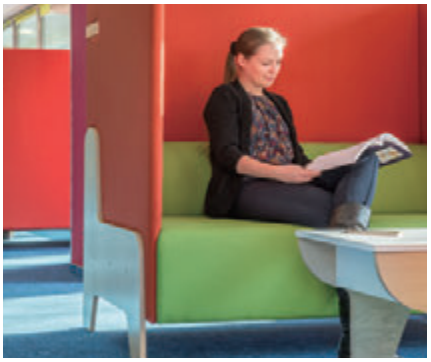
Height: 500mm

38% Thinner body

■ **LGH-RVXT installation image**



LGH-RVS SERIES



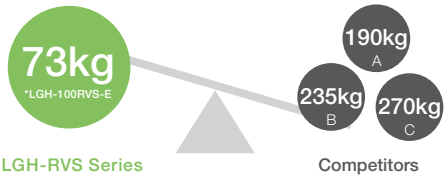
The LGH-RVS Series of sensible heat LOSSNAY models allows diverse solutions and options in response to customer needs.

LGH-50/80/100RVS-E

Easy installation

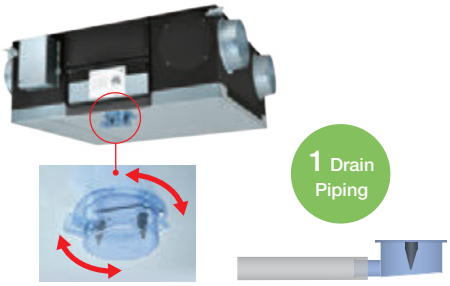
Light Chassis

Being light in weight is one of the most important factors for installation. The light chassis of the LGH-RVS series can provide a huge advantage in terms of installation coat and safety.



Easy Drain Piping

- Only one drain piping for both SA and EA.
- 360-degree drain pipe connection.
- Trap piping work is NOT required owing to an internal backflow stopper.



Various optional parts

The LGH-RVS series can connect with various optional parts. A CO_2 sensor is one of the best solutions for optimized airflow control. The unit operates while optimizing airflow in accordance with the level of CO_2 condensation in the room. Optimized ventilation can reduce the energy consumption of the air conditioner. A high-efficiency filter can be optionally installed in the unit as an easy solution for even better indoor air quality.

■ CO_2 sensor

■ Filter

■ Silencer duct

GUF SERIES

Along with LOSSNAY ventilation, the OA processing unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy.

GUF-50/100RD4, GUF-50/100RDH4

These units can be used with R410A.
Outdoor units available in the GUF-RD/RDH series (For details see Mitsubishi Electric's CITY MULTI catalog).

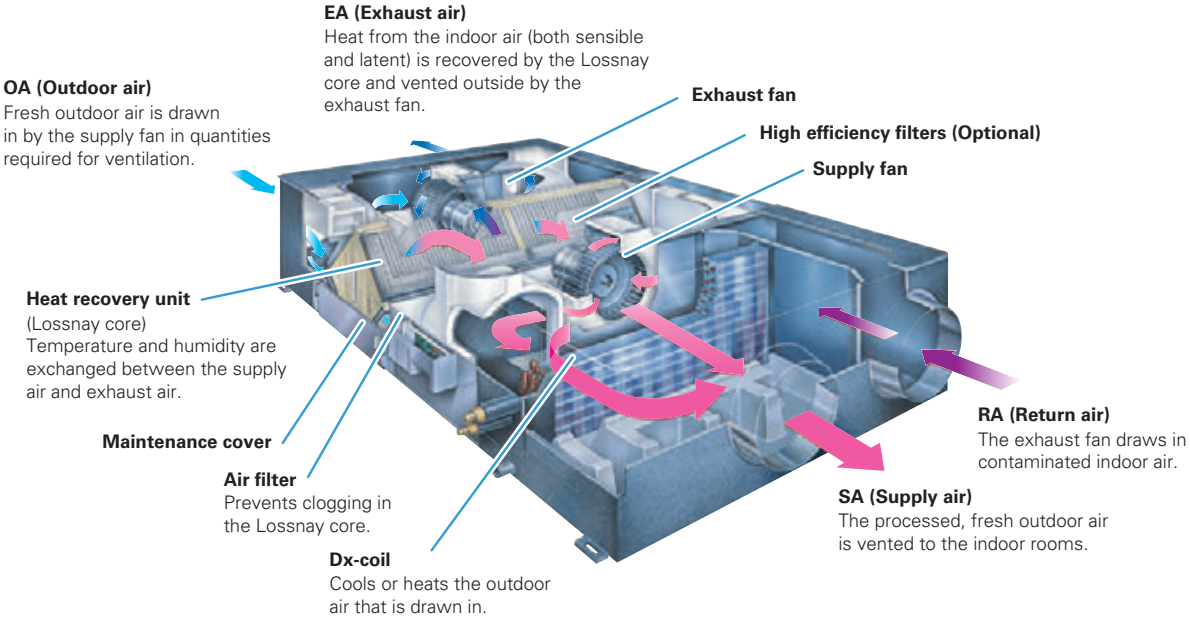
R410A refrigerant units

Model Size		P112	P125	P140	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800
Y Series	PUHY-YGM-A				●	●	●	●	●	●	●	●	●	●	●	●	●
R2 Series	PURY-YGM-A				●	●	●	●	●	●	●	●	●	●			
PUMY Series	PUMY-SP	●	●	●													
	PUMY-P	●	●	●	●												

LOSSNAY ventilation and Air conditioning

The OA (outdoor-air) Processing Unit creates an optimum environment while providing substantial energy savings. The OA Processing Unit comprises forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants preventing ailments such as sick building syndrome. Inside the OA Processing Unit is the Lossnay Core, a heat-exchange unit that transfers heat efficiently, cutting ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.

GUF-RD type



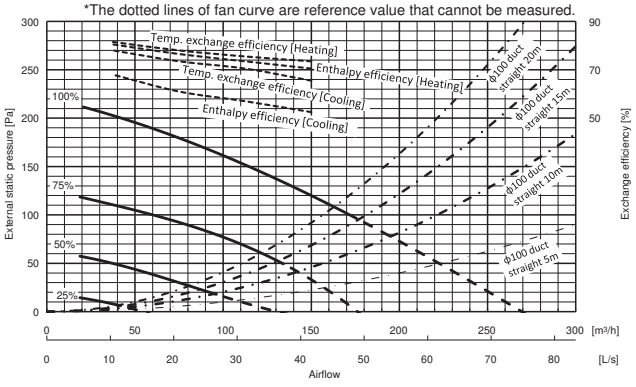
LGH–RVX3 SERIES

Specifications

LGH-15RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		55	30	15	10	ISO 16494-1: 2022
Airflow	(m^3/h)	150	113	75	38	
	(L/s)	42	31	21	10	
Specific fan power [W/(L/s)]		1.32	0.96	0.72	0.96	
External static pressure (Pa)		120	68	30	8	
Temperature exchange efficiency (%)	Heating	73.5	75.5	78.0	81.5	
	Cooling	65.5	70.5	73.5	78.0	
Enthalpy exchange efficiency (%)	Heating	70.5	73.5	76.5	80.5	
	Cooling	52.5	57.0	61.0	68.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		27.0	22.0	18.0	17.0	A-weighted sound pressure level
Weight (kg)		20				

Characteristic Curves



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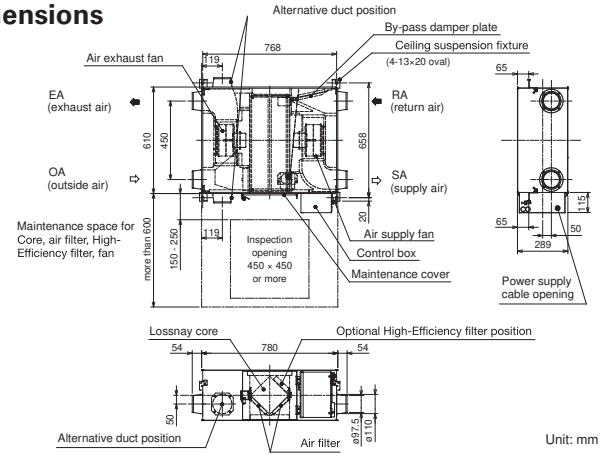
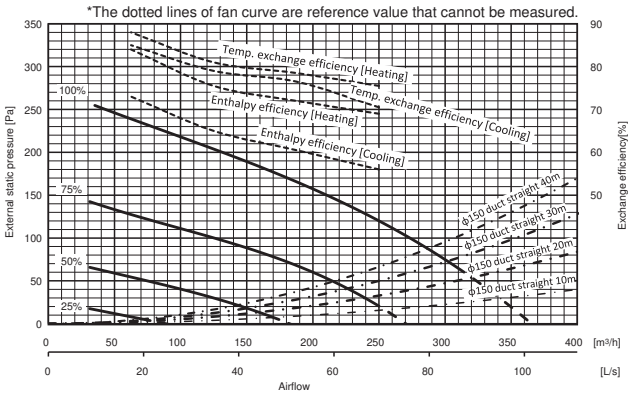


Unit: mm

LGH-25RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		75	42	21	11	ISO 16494-1: 2022
Airflow	(m^3/h)	250	188	125	63	
	(L/s)	69	52	35	17	
Specific fan power [W/(L/s)]		1.08	0.81	0.60	0.63	
External static pressure (Pa)		120	68	30	8	
Temperature exchange efficiency (%)	Heating	75.5	78.5	81.0	88.0	
	Cooling	70.5	76.5	79.0	85.0	
Enthalpy exchange efficiency (%)	Heating	69.0	72.0	75.5	84.0	
	Cooling	56.0	60.5	65.0	73.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		30.5	25.0	19.5	17.0	A-weighted sound pressure level
Weight (kg)		22				

Characteristic Curves



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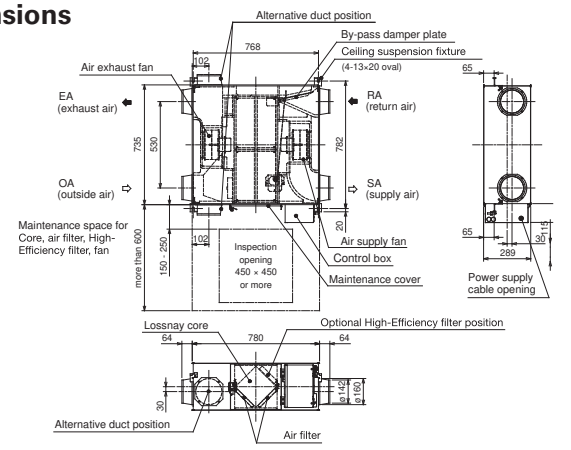


Unit: mm

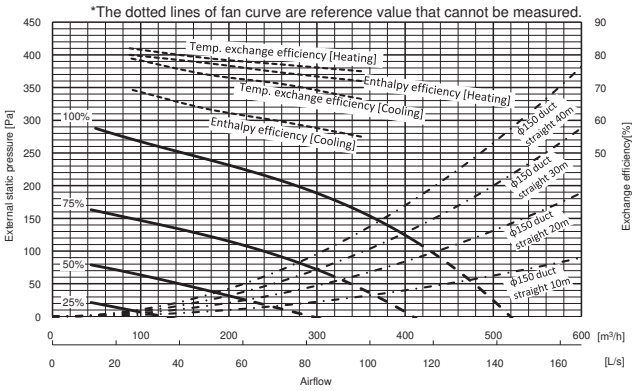
■For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

LGH-35RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		120	61	29	15	ISO 16494-1: 2022
Airflow	(m^3/h)	350	263	175	88	
	(L/s)	97	73	49	24	
Specific fan power [W/(L/s)]		1.23	0.84	0.60	0.62	
External static pressure (Pa)		160	90	40	10	
Temperature exchange efficiency (%)	Heating	75.0	77.0	79.0	82.0	
	Cooling	66.5	71.0	74.0	79.0	
Enthalpy exchange efficiency (%)	Heating	72.0	74.5	77.5	80.0	
	Cooling	55.0	59.5	63.5	69.5	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		30.5	24.5	19.0	17.0	A-weighted sound pressure level
Weight (kg)		30				

Characteristic Curves



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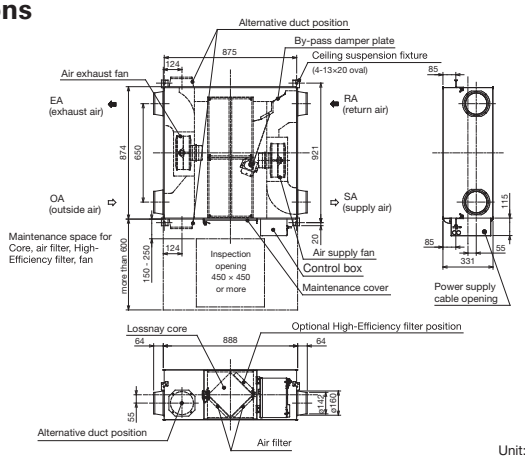
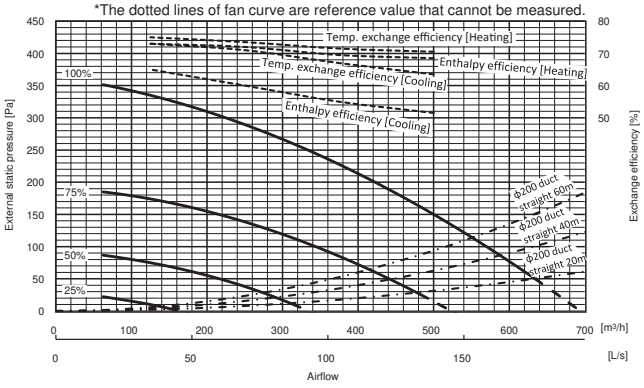


Unit: mm

LGH-50RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		185	81	34	15	ISO 16494-1: 2022
Airflow	(m^3/h)	500	375	250	125	
	(L/s)	139	104	69	35	
Specific fan power [W/(L/s)]		1.33	0.78	0.49	0.43	
External static pressure (Pa)		150	85	38	10	
Temperature exchange efficiency (%)	Heating	70.5	71.5	73.5	75.0	
	Cooling	63.5	67.0	71.0	73.0	
Enthalpy exchange efficiency (%)	Heating	68.5	69.5	72.0	73.0	
	Cooling	51.5	55.0	60.0	65.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		35.0	27.0	21.0	17.0	A-weighted sound pressure level
Weight (kg)		33				

Characteristic Curves



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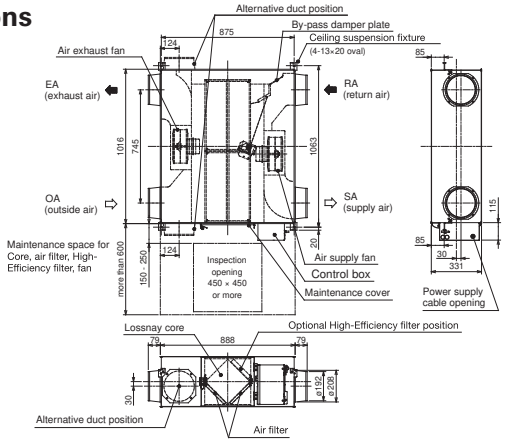


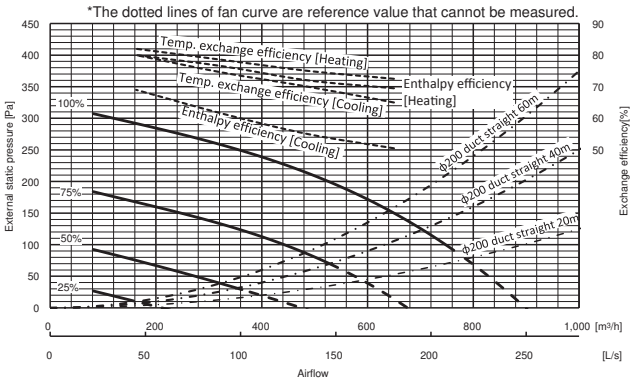
Unit: mm

■For LGH-RVX3 series
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

LGH-65RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		245	120	51	20	EN13053: 2019
Airflow	(m^3/h)	650	488	325	163	
	(L/s)	181	135	90	45	
Specific fan power [W/(L/s)]		1.36	0.89	0.56	0.44	
External static pressure (Pa)		150	85	38	10	
Temperature exchange efficiency (%)	Heating	72.5	75.0	78.5	82.0	EN308: 2022
	Cooling	65.0	70.0	74.5	80.0	
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.5	80.0	
	Cooling	50.5	55.0	61.5	69.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		37.5	31.5	24.0	17.5	A-weighted sound pressure level
Weight (kg)		41				

Characteristic Curves



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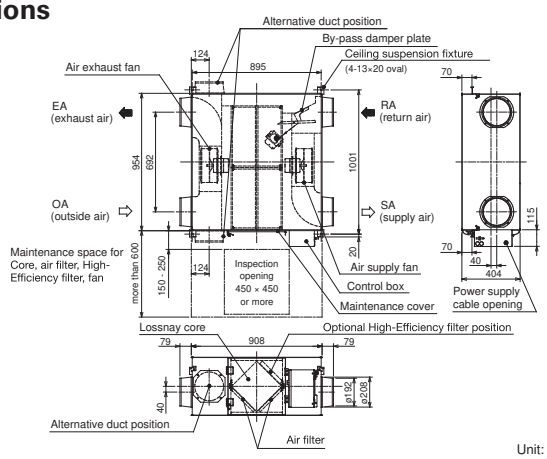
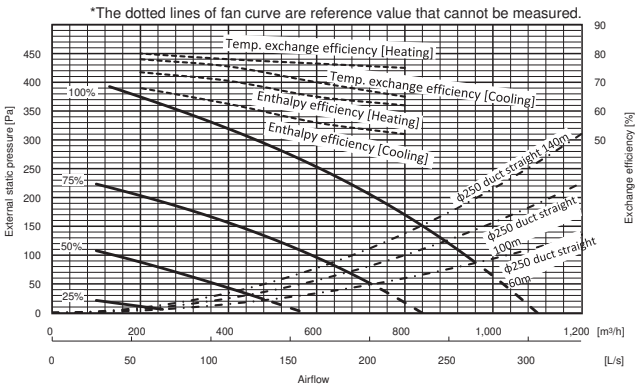


Unit: mm

LGH-80RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		343	160	64	23	EN13053: 2019
Airflow	(m^3/h)	800	600	400	200	
	(L/s)	222	167	111	56	
Specific fan power [W/(L/s)]		1.54	0.96	0.58	0.41	
External static pressure (Pa)		170	96	43	11	
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0	80.0	EN308: 2022
	Cooling	65.0	70.0	75.5	78.0	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	
	Cooling	52.0	56.0	62.5	68.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.0	33.5	25.0	18.0	A-weighted sound pressure level
Weight (kg)		47				

Characteristic Curves



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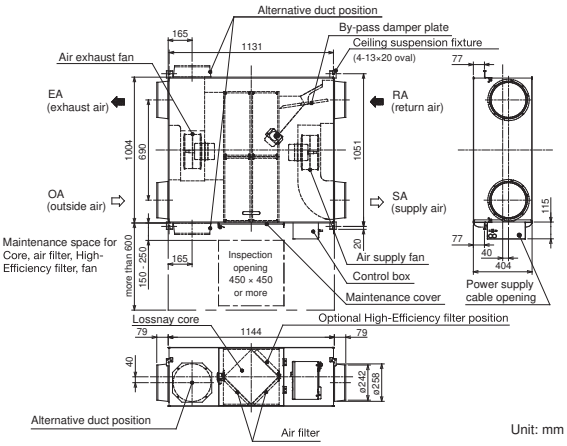


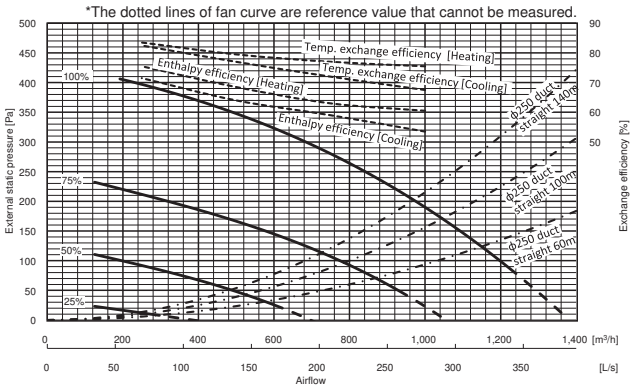
Unit: mm

■For LGH-RVX3 series
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

LGH-100RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		438	210	83	27	EN13053: 2019
Airflow	(m^3/h)	1000	750	500	250	
	(L/s)	278	208	139	69	
Specific fan power [W/(L/s)]		1.58	1.01	0.60	0.39	
External static pressure (Pa)		190	107	48	12	
Temperature exchange efficiency (%)	Heating	75.5	77.0	79.5	83.5	EN308: 2022
	Cooling	67.5	72.0	77.0	82.5	
Enthalpy exchange efficiency (%)	Heating	60.5	63.0	68.5	75.5	
	Cooling	53.5	59.0	64.0	71.5	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		40.0	35.0	27.0	18.5	A-weighted sound pressure level
Weight (kg)		53				

Characteristic Curves



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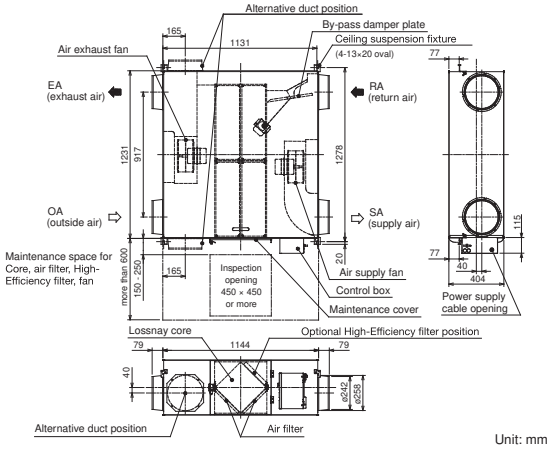
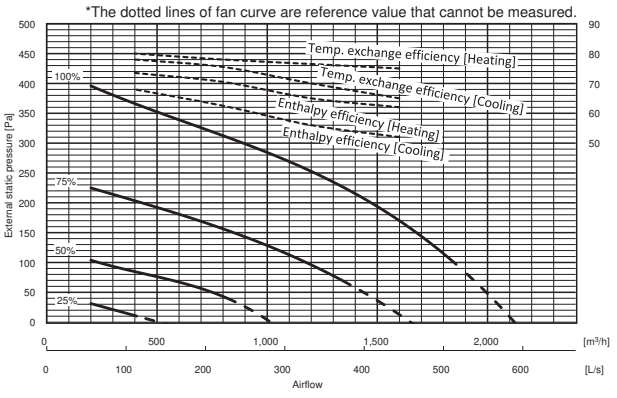


Unit: mm

LGH-160RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		687	324	128	45	EN13053: 2019
Airflow	(m^3/h)	1600	1200	800	400	
	(L/s)	444	333	222	111	
Specific fan power [W/(L/s)]		1.55	0.97	0.58	0.41	
External static pressure (Pa)		170	96	43	11	
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0	80.0	EN308: 2022
	Cooling	65.0	70.0	75.5	78.0	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	
	Cooling	52.0	56.0	62.5	68.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.0	35.0	26.0	18.0	A-weighted sound pressure level
Weight (kg)		96				

Characteristic Curves



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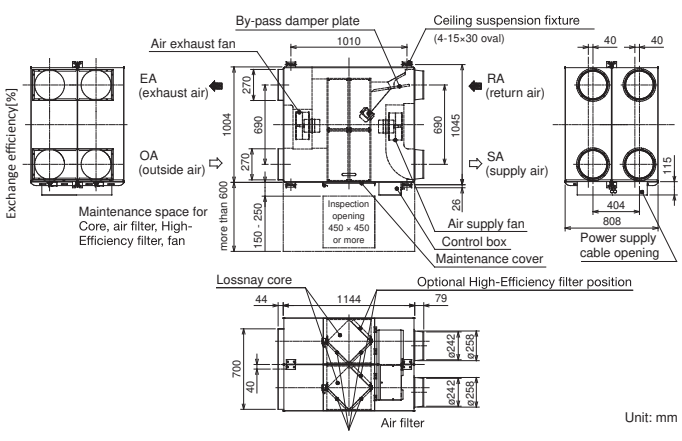


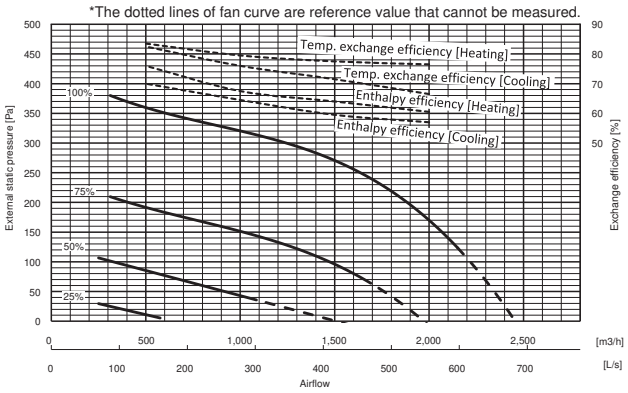
Unit: mm

■For LGH-RVX3 series
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

LGH-200RVX3-E

Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		4	3	2	1	Test condition
Default Airflow setting		100%	75%	50%	25%	
Input power (W)		855	416	163	57	EN13053: 2019
Airflow	(m^3/h)	2000	1500	1000	500	
	(L/s)	556	417	278	139	
Specific fan power [W/(L/s)]		1.54	1.00	0.59	0.41	
External static pressure (Pa)		170	96	43	11	
Temperature exchange efficiency (%)	Heating	76.5	77.5	79.5	83.5	EN308: 2022
	Cooling	66.5	71.5	76.0	82.5	
Enthalpy exchange efficiency (%)	Heating	60.5	64.0	67.5	76.0	
	Cooling	57.0	59.5	64.5	70.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.5	36.0	27.5	18.0	A-weighted sound pressure level
Weight (kg)		108				

Characteristic Curves



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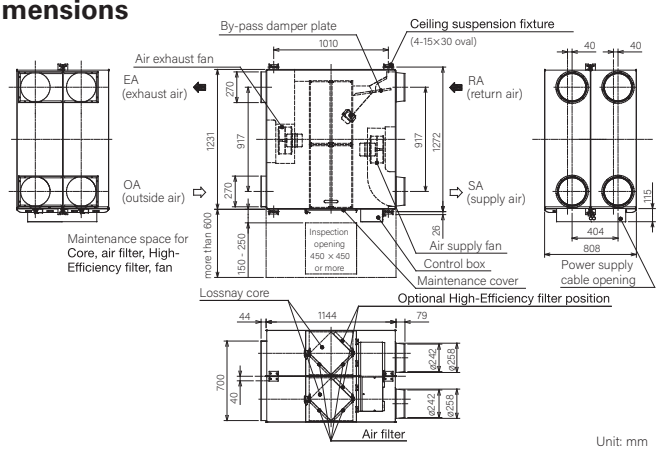


Unit: mm

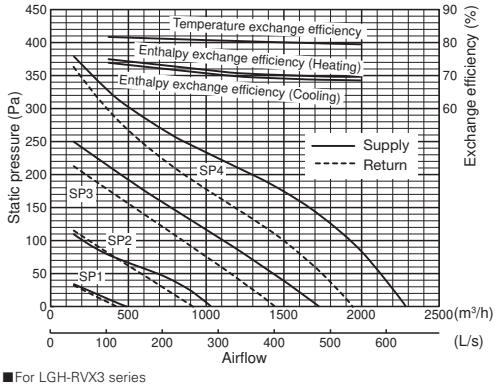
LGH-RVXT SERIES

Specifications

LGH-150RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode				Bypass mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		4.30	2.40	1.10	0.36	3.40	1.80	0.77	0.31
Input power (W)		792	421	176	48	625	334	134	37
Airflow	(m^3/h)	1500	1125	750	375	1500	1125	750	375
	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)		80	80.5	81	81.5	–	–	–	–
Enthalpy exchange efficiency (%)	Heating	70	71	73	75	–	–	–	–
	Cooling	69	70	72	74	–	–	–	–
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.5	35.5	29.5	22	39	33	26.5	20.5
Weight (kg)		156							

Characteristic Curves



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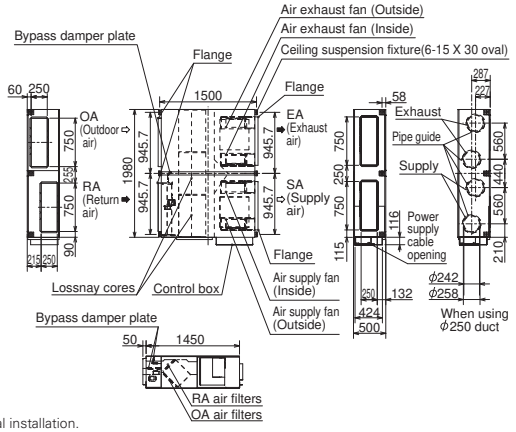


Unit: mm

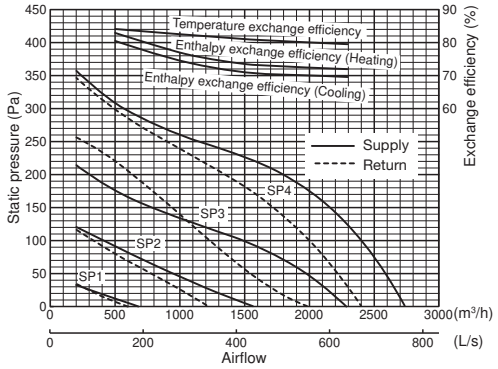
■For LGH-RVX3 series
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

■For LGH-RVXT series
*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

LGH-200RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode				Bypass mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		5.40	2.70	1.10	0.39	5.00	2.20	0.85	0.34
Input power (W)		1000	494	197	56	916	407	150	45
Airflow	(m^3/h)	2000	1500	1000	500	2000	1500	1000	500
	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)		80	81	82.5	84	–	–	–	–
Enthalpy exchange efficiency (%)	Heating	72.5	73.5	77	83	–	–	–	–
	Cooling	70	71	74.5	80.5	–	–	–	–
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.5	35.5	28	22	40.5	34.5	27	20.5
Weight (kg)		159							

Characteristic Curves



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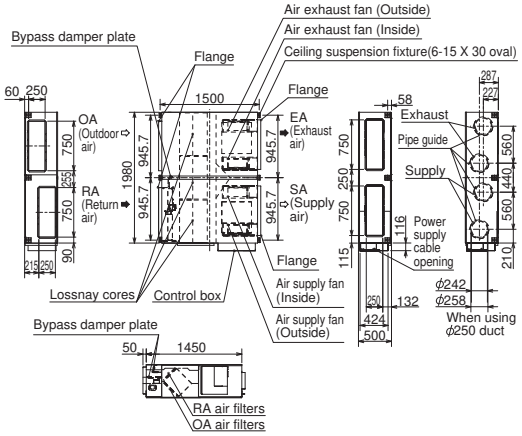
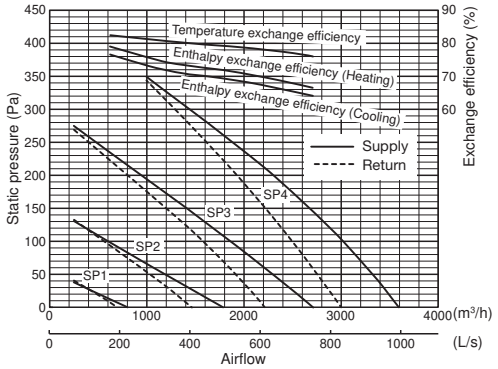


Unit: mm

LGH-250RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode		Heat recovery mode				Bypass mode			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49
Input power (W)		1446	687	244	82	1298	587	212	69
Airflow	(m^3/h)	2500	1875	1250	625	2500	1875	1250	625
	(L/s)	694	521	347	174	694	521	347	174
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)		77	79	80.5	82.5	–	–	–	–
Enthalpy exchange efficiency (%)	Heating	68	71.5	74	79	–	–	–	–
	Cooling	65.5	69	71.5	76.5	–	–	–	–
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		43	39	32	24	44	38.5	31	22.5
Weight (kg)		198							

Characteristic Curves



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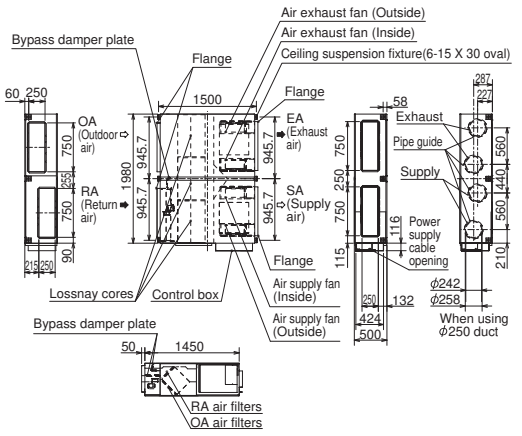


Unit: mm

■For LGH-RVXT series
*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

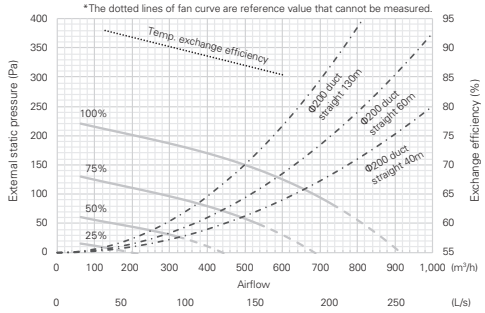
LGH–RVS SERIES

Specifications

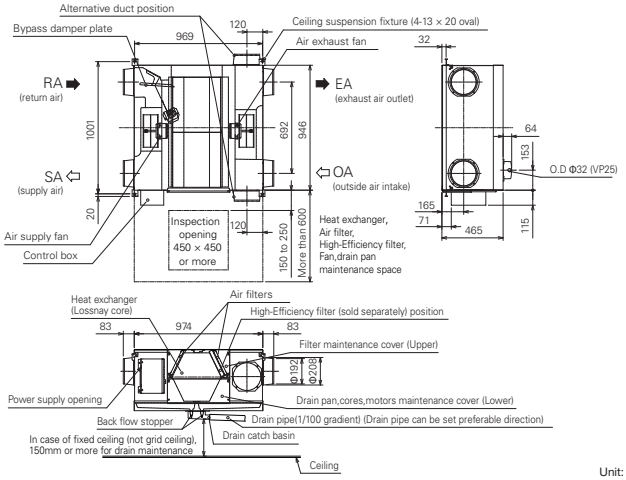
LGH-50RVS-E

Weight		55kg (67kg with maximum drain water)				
Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		100%	75%	50%	25%	Test condition
Input power (W)		190	110	60	25	ISO 16494 Temp. exchange efficiency is winter condition
Airflow	(m^3/h)	500	375	250	125	
	(L/s)	139	104	69	35	
Specific fan power [W/(L/s)]		1.37	1.06	0.86	0.72	
External static pressure (Pa)		150	84	38	9	
Temperature exchange efficiency (%)		87.0	89.0	91.0	93.0	
Noise (dB)		33.0	27.0	22.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber
Exhaust air transfer ratio (%)		5				Tracer gas method @100% airflow (prEN308)

Characteristic Curves



Dimensions

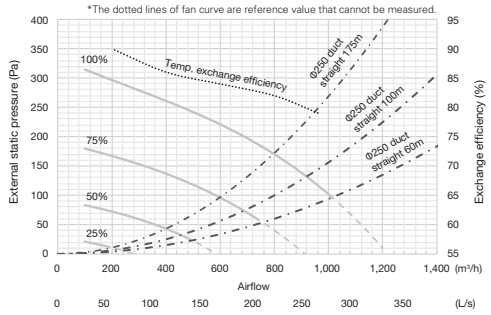


Unit: mm

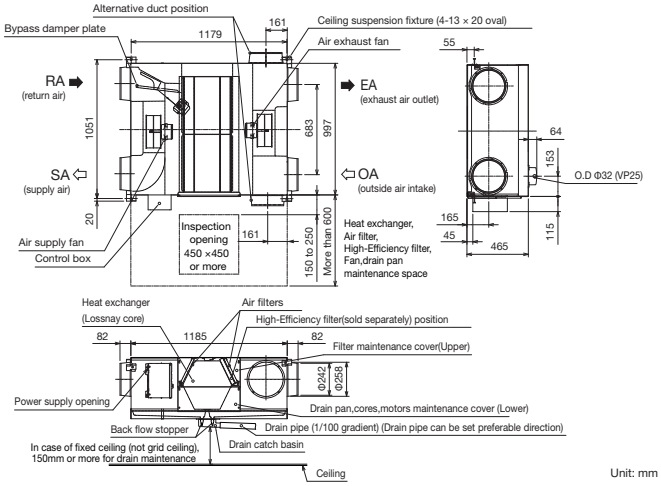
LGH-80RVS-E

Weight		63kg (77kg with maximum drain water)				
Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		100%	75%	50%	25%	Test condition
Input power (W)		325	175	85	32	ISO 16494 Temp. exchange efficiency is winter condition
Airflow	(m^3/h)	800	600	400	200	
	(L/s)	222	167	111	56	
Specific fan power [W/(L/s)]		1.46	1.05	0.77	0.58	
External static pressure (Pa)		170	96	43	11	
Temperature exchange efficiency (%)		82.0	84.0	86.0	90.0	
Noise (dB)		36.0	30.0	25.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber
Exhaust air transfer ratio (%)		5				Tracer gas method @100% airflow (prEN308)

Characteristic Curves



Dimensions



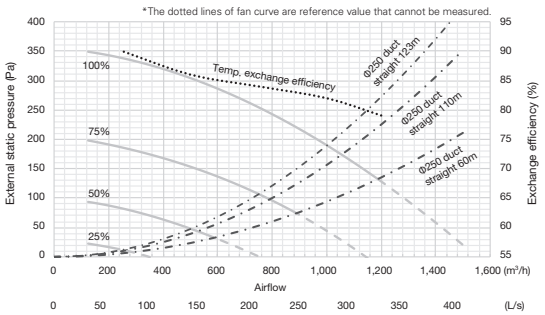
Unit: mm

■The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494.
When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.
■The absolute humidity of RA shall be lower than 0.0139kg/kg (DA) in winter and relative humidity of RA shall be lower than 90%RH through the year.
Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

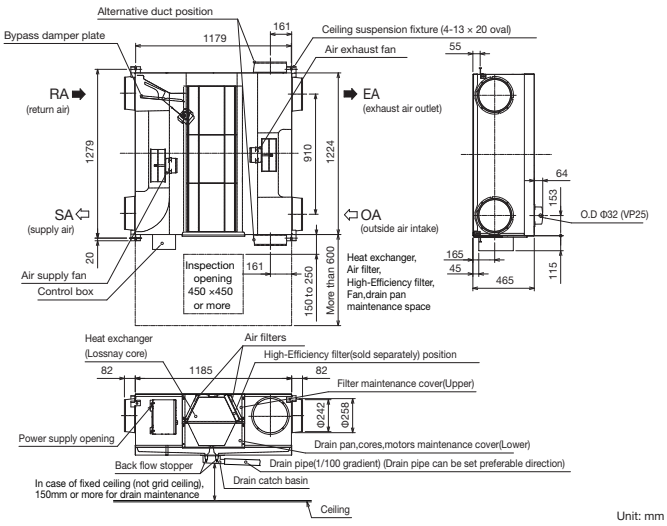
LGH-100RVS-E

Weight		73kg (89kg with maximum drain water)				
Electrical power supply		220-240V/50Hz, 220V/60Hz				
Fan speed		100%	75%	50%	25%	Test condition
Input power (W)		445	225	100	35	ISO 16494 Temp. exchange efficiency is winter condition
Airflow	(m^3/h)	1000	750	500	250	
	(L/s)	278	208	139	69	
Specific fan power [W/(L/s)]		1.60	1.08	0.72	0.50	
External static pressure (Pa)		190	107	48	12	
Temperature exchange efficiency (%)		82.0	84.0	86.0	90.0	
Noise (dB)		37.0	32.0	24.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber
Exhaust air transfer ratio (%)		5				Tracer gas method @100% airflow (prEN308)

Characteristic Curves



Dimensions



Unit: mm

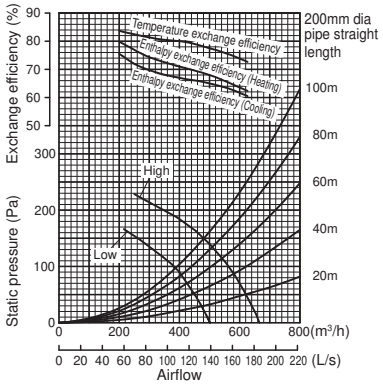
■The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494.
When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.
■The absolute humidity of RA shall be lower than 0.0139kg/kg (DA) in winter and relative humidity of RA shall be lower than 90%RH through the year.
Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

GUF SERIES
Specifications

GUF-50RD4

Electrical power supply		220-240V/50Hz			
Ventilation mode		Heat recovery mode		Bypass mode	
Fan speed		High	Low	High	Low
Running current (A)		1.15	0.70	1.15	0.70
Input power (W)		235-265	150-165	235-265	150-165
Airflow	(m^3/h)	500	400	500	400
	(L/s)	139	111	139	111
External static pressure (Pa)		140	90	140	90
Temperature exchange efficiency (%)		77.5	80	–	–
Enthalpy exchange efficiency (%)	Heating	68	71	–	–
	Cooling	65	67	–	–
Cooling capacity (kW)		5.57 (1.94)			
Heating capacity (kW)		6.21 (2.04)			
Capacity equivalent to the indoor unit		P32			
Humidifier	Humidifying	–			
	Humidifying capacity (kg/h)	–			
	Water supply pressure	–			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		33.5-34.5	29.5-30.5	35-36	29.5-30.5
Weight (kg)		48			

Characteristic Curves



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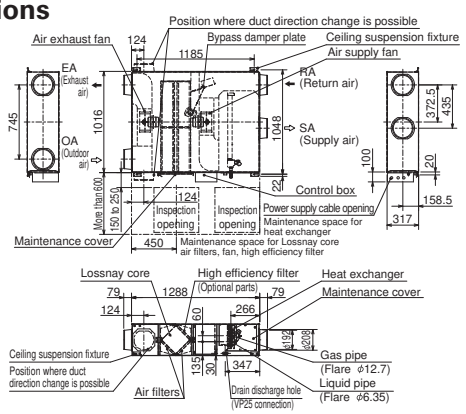
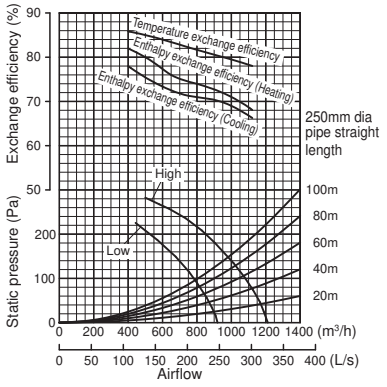


Unit: mm

GUF-100RD4

Electrical power supply		220-240V/50Hz			
Ventilation mode		Heat recovery mode		Bypass mode	
Fan speed		High	Low	High	Low
Running current (A)		2.20	1.73	2.25	1.77
Input power (W)		480-505	370-395	490-515	385-410
Airflow	(m^3/h)	1000	800	1000	800
	(L/s)	278	222	278	222
External static pressure (Pa)		140	90	140	90
Temperature exchange efficiency (%)		79.5	81.5	–	–
Enthalpy exchange efficiency (%)	Heating	71	74	–	–
	Cooling	69	71	–	–
Cooling capacity (kW)		11.44 (4.12)			
Heating capacity (kW)		12.56 (4.26)			
Capacity equivalent to the indoor unit		P63			
Humidifier	Humidifying	–			
	Humidifying capacity (kg/h)	–			
	Water supply pressure	–			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		38-39	34-35	38-39	35-36
Weight (kg)		82			

Characteristic Curves



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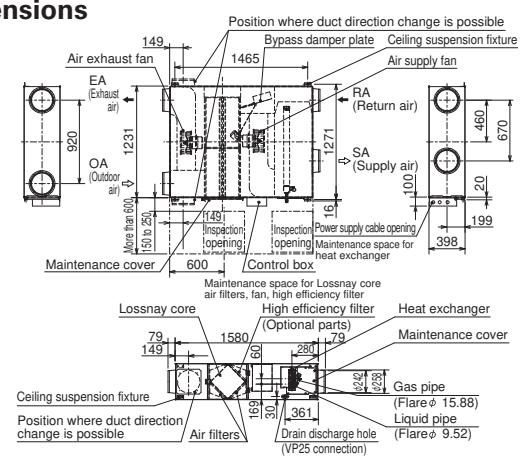


Unit: mm

■For GUF series

*Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB
Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

*The figures in ( ) indicates heat recoverying capacity of heat exchange core.

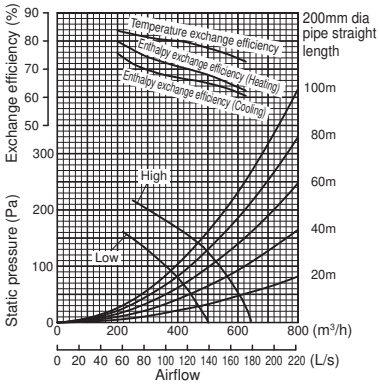
*Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

*When the total capacity of indoor units connected to 1 outdoor units (PUHY or PURY) exceeds the capacity of the total unit, the total capacity of GUF needs to be 30% and less of the connected outdoor until capacity.

GUF-50RDH4

Electrical power supply			220-240V/50Hz		
Ventilation mode			Heat recovery mode	Bypass mode	
Fan speed			High	Low	High	Low
Running current (A)			1.15	0.70	1.15	0.70
Input power (W)			235-265	150-165	235-265	150-165
Airflow		(m^3/h)	500	400	500	400
		(L/s)	139	111	139	111
External static pressure (Pa)			125	80	125	80
Temperature exchange efficiency (%)			77.5	80	–	–
Enthalpy exchange efficiency (%)		Heating	68	71	–	–
		Cooling	65	67	–	–
Cooling capacity (kW)			5.57 (1.94)			
Heating capacity (kW)			6.21 (2.04)			
Capacity equivalent to the indoor unit			P32			
Humidifier	Humidifying		Permeable film humidifier			
	Humidifying capacity (kg/h)		2.7 (heating)			
	Water supply pressure		Minimum pressure : 2.0 × 10^4Pa Maximum pressure : 49.0 × 10^4Pa			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			33.5-34.5	29.5-30.5	35-36	29.5-30.5
Weight (kg)			51 (filled with water 55)			

Characteristic Curves



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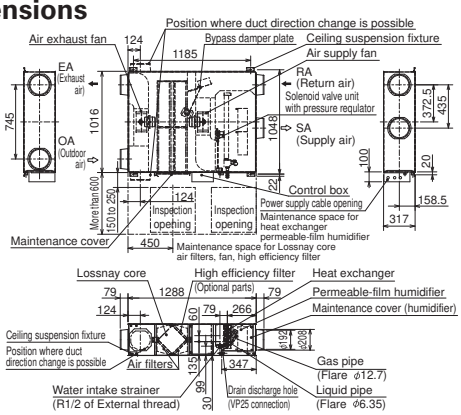
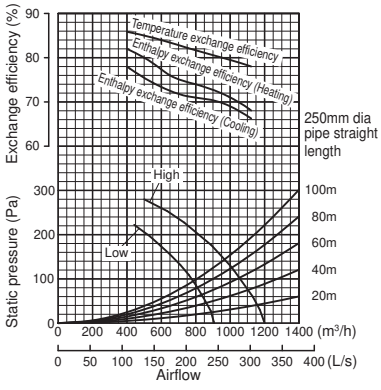


Unit: mm

GUF-100RDH4

Electrical power supply			220-240V/50Hz		
Ventilation mode			Heat recovery mode	Bypass mode	
Fan speed			High	Low	High	Low
Running current (A)			2.20	1.76	2.25	1.77
Input power (W)			480-505	385-400	490-515	385-410
Airflow		(m^3/h)	1000	800	1000	800
		(L/s)	278	222	278	222
External static pressure (Pa)			135	86	135	86
Temperature exchange efficiency (%)			79.5	81.5	–	–
Enthalpy exchange efficiency (%)		Heating	71	74	–	–
		Cooling	69	71	–	–
Cooling capacity (kW)			11.44 (4.12)			
Heating capacity (kW)			12.56 (4.26)			
Capacity equivalent to the indoor unit			P63			
Humidifier	Humidifying		Permeable film humidifier			
	Humidifying capacity (kg/h)		5.4 (heating)			
	Water supply pressure		Minimum pressure : 2.0 × 10^4Pa Maximum pressure : 49.0 × 10^4Pa			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			38-39	34-35	38-39	35-36
Weight (kg)			88 (filled with water 96)			

Characteristic Curves



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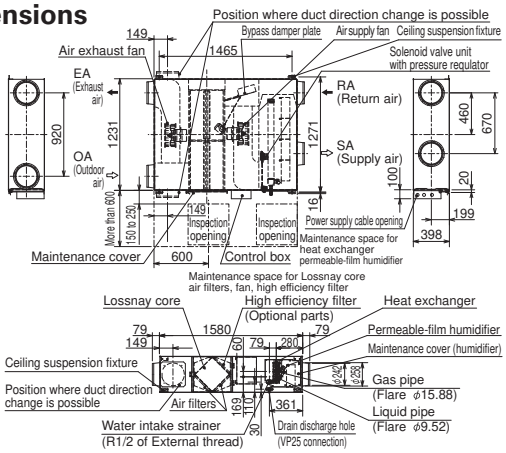


Unit: mm

■For GUF series

*Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB
Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

*The figures in ( ) indicates heat recovering capacity of heat exchange core.

*Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

*When the total capacity of indoor units connected to 1 outdoor units (PUHY or PURY) exceeds the capacity of the total unit, the total capacity of GUF needs to be 30% and less of the connected outdoor until capacity.

CONTROL TECHNOLOGIES

New model

PZ-62DR-EA/EB

Multi-language Display

Control panel operation in 17 different languages. Choose a desired language, among the following languages.

		-EA	-EB
Language	English	●	●
	German	●	●
	Spanish	●	●
	French	●	●
	Italian		●
	Russian	●	
	Portuguese		●
	Swedish		●
	Dutch	●	
	Turkish	●	
	Polish	●	
	Greek		●
	Czech	●	
	Hungarian	●	
	Slovenian		●
	Bulgarian	●	
	Danish		●

Compatibility Table

Remote Controller Compatibility Table			
Model name	PZ-62DR-EA/EB		PZ-43SMF-E
Appearance			
Compatible series	LGH-RVX3/RVS	LGH-RVXT	LGH-RVX3/RVXT/RVS
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO_2 sensor)	4 fan speeds	2 of 4 fan speeds
Control with a CO_2 sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	No	No
Control with a CO_2 sensor (field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	Yes (Fan speed automatically changes 4 levels depending on the CO_2 concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night-purge	Yes	Yes	No
Function setting from remote controller	Yes	Yes	No
Bypass temp. free setting	Yes	Yes (Set in Function setting menu)	No
Multi-stage airflow control	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No	No
ON/OFF timer	Yes	Yes	Yes
Auto-off timer	Yes	Yes	No
Weekly timer	Yes	Yes	No
Fan speed timer	Yes	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	Yes	No
Operation restrictions (fan speed skip setting)	Yes	Yes	No
Screen contrast adjustment	Yes	Yes	No
Language selection*	Yes (17 languages)	Yes (17 languages)	No (English only)
CO_2 concentration indication	Yes (available when using a Mitsubishi Electric CO_2 sensor)	No	No
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes	Yes
LOSSNAY core cleaning sign	Yes/No (RVS series)	Yes	No
Error indication	Yes (Displays model name, serial number, contact information)	Yes (Displays model name, serial number, contact information)	Yes
Error history	Yes	Yes	No
OA/RA/SA temp. display	Yes	Yes	No

*When using a CO_2 sensor. Upper and lower limits may be changed.

Filters & Accessories

Filters For LGH-RVX3 Series

PZ-**RF3-E
Standard filter

Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779: 2012				
Non-woven fabric	Before HEX	Coarse 60%	—	PZ-15RF3-E	2	LGH-15RVX3-E	1
				PZ-25RF3-E	2	LGH-25RVX3-E	1
				PZ-35RF3-E	2	LGH-35RVX3-E	1
				PZ-50RF3-E	2	LGH-50RVX3-E	1
				PZ-65RF3-E	2	LGH-65RVX3-E	1
				PZ-80RF3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RF3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFP3-E
ePM1 75% filter

Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779:2012				
Pleated filter	After HEX	ePM1 75%	—	PZ-15RFP3-E	1	LGH-15RVX3-E	1
				PZ-25RFP3-E	2	LGH-25RVX3-E	1
				PZ-35RFP3-E	2	LGH-35RVX3-E	1
				PZ-50RFP3-E	2	LGH-50RVX3-E	1
				PZ-65RFP3-E	2	LGH-65RVX3-E	1
				PZ-80RFP3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFP3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFM3-E
M6 filter

Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779:2012				
Pleated filter	Before HEX	—	M6	PZ-15RFM3-E	1	LGH-15RVX3-E	1
				PZ-25RFM3-E	2	LGH-25RVX3-E	1
				PZ-35RFM3-E	2	LGH-35RVX3-E	1
				PZ-50RFM3-E	2	LGH-50RVX3-E	1
				PZ-65RFM3-E	2	LGH-65RVX3-E	1
				PZ-80RFM3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFM3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

PZ-**RFH3-E
F8 filter

Filter						LOSSNAY	
Filter material	Installation position	Classification		Model name	Piece/set included	Applicable model	Required set/unit
		ISO16890:2016	EN779:2012				
Pleated filter	After HEX	—	F8	PZ-15RFH3-E	1	LGH-15RVX3-E	1
				PZ-25RFH3-E	2	LGH-25RVX3-E	1
				PZ-35RFH3-E	2	LGH-35RVX3-E	1
				PZ-50RFH3-E	2	LGH-50RVX3-E	1
				PZ-65RFH3-E	2	LGH-65RVX3-E	1
				PZ-80RFH3-E	2	LGH-80RVX3-E	1
						LGH-160RVX3-E	2
				PZ-100RFH3-E	2	LGH-100RVX3-E	1
						LGH-200RVX3-E	2

Filters For LGH-RVXT Series & GUF Series

Standard Filters

Replacements for the standard filter supplied with the LOSSNAY main unit.

Filter					LOSSNAY	
Filter Material	Classification		Model Name	Included piece/set	Applicable model	Required filter pieces
	ISO16890:2016	EN779:2012				
Non-woven fabric	Coarse 35%	G3*	PZ-50RF8-E	4	GUF-50RD4, GUF-50RDH4	4
			PZ-100RF8-E	4	GUF-100RD4, GUF-100RDH4	4
	Coarse 50%	G3	PZ-150RTF-E	4	LGH-150RVXT-E	4
			PZ-250RTF-E	4	LGH-200RVXT-E, LGH-250RVXT-E	4

*The classification in EN779 (2002) is G3.

High-efficiency Filters Optional

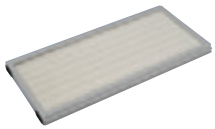
These high-efficiency filters can be easily inserted in the LOSSNAY unit without the need to attach external parts.

Filter					LOSSNAY	
Filter Material	Classification		Model Name	Included piece/set	Applicable model	Required filter pieces
	ISO16890:2016	EN779:2012				
Synthetic fiber	ePM10 75%	M6*	PZ-50RFM-E	2	GUF-50RD4, GUF-50RDH4	2
			PZ-100RFM-E	2	GUF-100RD4, GUF-100RDH4	2

*The classification in EN779 (2002) is F7.

Advanced High-efficiency Filters (For GUF Series) Optional

These advanced high-efficiency filters are designed to remove approx. 99.7% of airborne particulates that are 0.5μm or larger.
*GB/T14295-2008 : YG class, 99.7% (Collecting efficiency for particles that are 0.5μm or larger)



Filter					LOSSNAY	
Filter Material	Classification		Model Name	Included piece/set	Applicable model	Required filter pieces
	ISO16890:2016	EN779:2012				
Synthetic fiber	ePM1 75% ePM2.5 80% ePM10 95%	—	PZ-50RFP2-E	2	GUF-50RD4, GUF-50RDH4	2
			PZ-100RFP2-E	2	GUF-100RD4, GUF-100RDH4	2

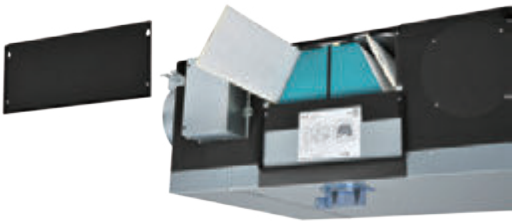
Advanced High-efficiency Filters (For LGH-RVXT Series) Optional

These advanced high-efficiency filters can be easily inserted in the LOSSNAY unit without the need to attach external parts.

Filter					LOSSNAY	
Filter Material	Classification		Model Name	Included piece/set	Applicable model	Required filter pieces
	ISO16890:2016	EN779:2012				
Non-woven fabric	ePM10 75%	M6*	PZ-M6RTFM-E	3	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	3
	ePM1 65% ePM2.5 75% ePM10 90%	F8*	PZ-F8RTFM-E	3		
		M6*	PZ-M6TDF-E	3		
		F8*	PZ-F8TDF-E	3		

*There is no data for the classification in EN779 (2002).

Filters For LGH-RVS Series



Filters

A lineup of three types of filters offers optimum indoor air quality solutions!
All filters are ISO and EN779:2012 certified, and can be easily installed in the units.
Maintenance and exchanges can also be performed easily, simply by opening the maintenance panel.

Standard Filter

Filter					LOSSNAY	
Filter material	Classification		Model name	Included piece/set	Applicable model	Required set/unit
	ISO 16890 (2016)	EN779 (2012)				
Non-woven fabrics	Coarse 50%	G3	PZ-S50RF-E	2	LGH-50RVS-E	1
			PZ-S80RF-E	2	LGH-80RVS-E	1
			PZ-S100RF-E	2	LGH-100RVS-E	1

High-efficiency Filter

Filter					LOSSNAY	
Filter material	Classification		Model name	Included piece/set	Applicable model	Required set/unit
	ISO 16890 (2016)	EN779 (2012)				
Pleated filter	ePM10 80%	M6	PZ-S50RFM-E	2	LGH-50RVS-E	1
			PZ-S80RFM-E	2	LGH-80RVS-E	1
			PZ-S100RFM-E	2	LGH-100RVS-E	1

Advanced High-efficiency Filter

Filter					LOSSNAY	
Filter material	Classification		Model name	Included piece/set	Applicable model	Required set/unit
	ISO 16890 (2016)	EN779 (2012)				
Pleated filter	ePM10 90% ePM2.5 75% ePM1 65%	F8	PZ-S50RFH-E	2	LGH-50RVS-E	1
			PZ-S80RFH-E	2	LGH-80RVS-E	1
			PZ-S100RFH-E	2	LGH-100RVS-E	1

Accessories For LGH-RVX3/RVS Series

CO_2 Sensor

A CO_2 sensor connected directly to a LOSSNAY RVX3/RVS unit optimizes the fan speed according to the level of CO_2 detected. It improves total heat exchange efficiency and contributes to energy saving.

PZ-70CSW-E
(Wall-mounted type)

CO_2 levels are indicated by LED lights.

PZ-70CSD-E
(Duct-mounted type)

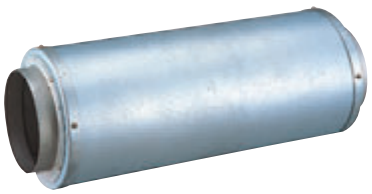
■ Automatic operation with CO_2 sensor

Fan speed automatically changes depending on CO_2 concentration.

Accessories For LGH-RVX3/RVS Series & GUF Series

Duct Silencer

In facilities and applications requiring quiet operations, the silencer duct that reduces noise levels is the ideal solution. It contains glass wool and attenuates sound power by absorbing the noise from the airflow or operation of the unit.

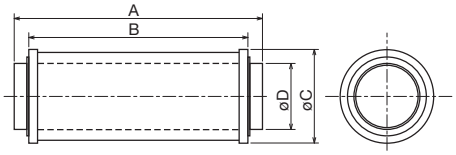


Specifications

Model	Airflow [m^3/h]	Attenuation of sound power level [dB] for center frequency (Discharge)							
		62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
PZ-100SS-E	50	0	3	5	7	6	6	6	8
	150	0	3	6	7	7	7	7	9
PZ-150SS-E	250	0	1	5	8	15	21	20	14
	350	0	1	4	8	14	21	21	16
PZ-200SS-E	500	0	1	4	7	13	18	16	9
	650	0	1	3	8	12	17	14	6
PZ-250SS-E	800	0	2	4	12	22	21	14	13
	1000	0	1	4	12	22	20	14	13

1. Figures on the chart above are based on the comparison with a general steel duct of the same length.
2. The silencer is placed on just before the outlet during the measurement.
3. When the airflow rate differs, the insertion loss is also different from the chart above.
4. Figures on the chart above are flat (No-weighted) values.

Dimensions



Unit: mm

Model	A	B	C	D	Connecting duct	Weight (kg)
PZ-100SS-E	450	400	152	99	ø100	1.9
PZ-150SS-E	560	500	202	149	ø150	3.5
PZ-200SS-E	660	600	252	199	ø200	5.3
PZ-250SS-E	660	600	332	249	ø250	8.9

VL-CZPVU SERIES

Vertical type centralized ventilation with sensible heat exchange for residential use.

VL-250CZPVU-R/L-E
VL-350CZPVU-R/L-E
VL-500CZPVU-R/L-E

Key features

Quiet Operation

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

Air Purification

An optional filter removes NOx and PM2.5 and improves indoor air quality. They can be incorporated inside the unit without any filter box, which saves space.

*NOx: Nitrogen oxide, which includes nitric oxide (NO) and nitrogen dioxide (NO_2).
*PM2.5: Airborne particulates that are 2.5μm or smaller in size.

Wi-Fi Control

MELCloud is a Cloud-based solution for controlling LOSSNAY units either locally or remotely by computer, tablet or smartphone via the Internet. It allows LOSSNAY operations to be checked and controlled via MELCloud from virtually anywhere and Internet connection is available. With MELCloud, the LOSSNAY system can be used much more easily and conveniently.

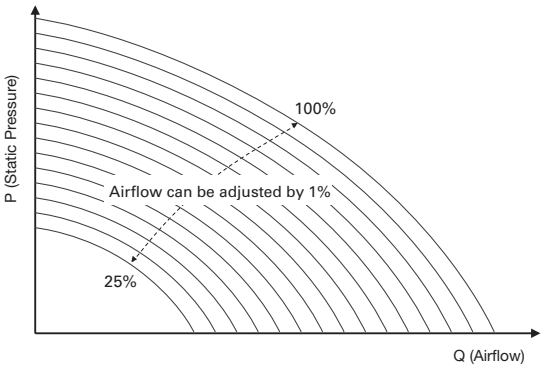
Energy efficiency

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

ErP A^+ A^+

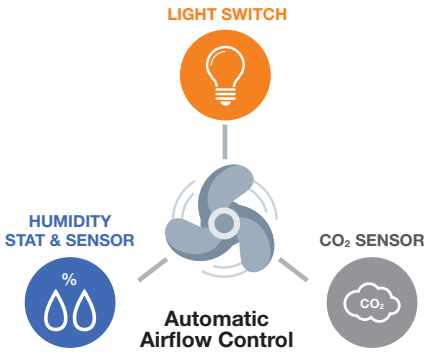
Variable airflow control

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 flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% increments to satisfactorily meet the designed airflow rate.



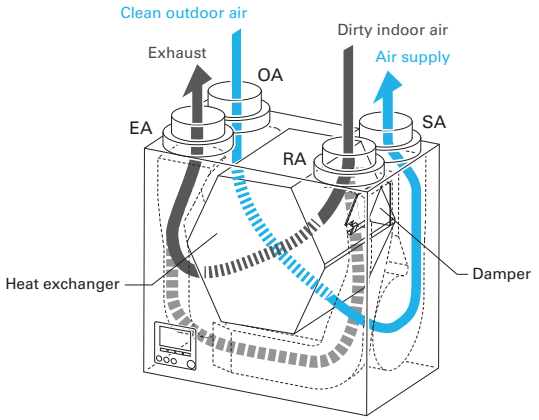
External airflow control

The airflow from the LOSSNAY unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO_2 sensor (field supply). The LOSSNAY unit is also connected to the light switch and can change to boost operation mode (input 220-240V). These devices are connected directly to the LOSSNAY unit, allowing automatic fan speed control according to bathroom occupation, CO_2 level, and humidity level.



Automatic bypass mode

It is possible to switch between "LOSSNAY ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)" either manually or automatically. When outside air is cooler than indoor air in summer, the unit directly draws in outside air, bypassing the heat exchanger.



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

Wide operating temperature range

The VL-CZPVU series can operate at temperatures down to –15°C. With a pre-heater, it can operate at temperatures down to –25°C.

* In areas where outdoor air falls below –20°C, an electric shutter (locally supplied) is required in the OA duct in addition to the pre-heater.
* The OA temperature must be higher than –15°C to use the pre-heater.

MELCloud for LOSSNAY

MELCloud enables fast, easy remote control and monitoring of LOSSNAY units. Wireless computer connectivity and an Internet-connected mobile or fixed terminal are all that are needed. MELCloud can also be used to control room air conditioners and Ecodan heat pumps simultaneously.

Key Control and Monitoring Features

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

VL-CZPVU SERIES

Specifications

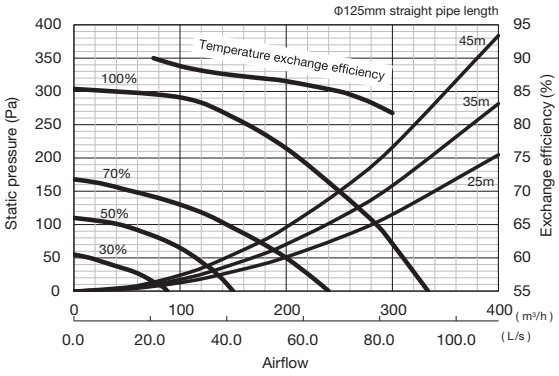
VL-250CZPVU-R/L-E

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^3/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			

■ Attention

1. The above values are at factory default.
2. The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. The sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Characteristic Curves

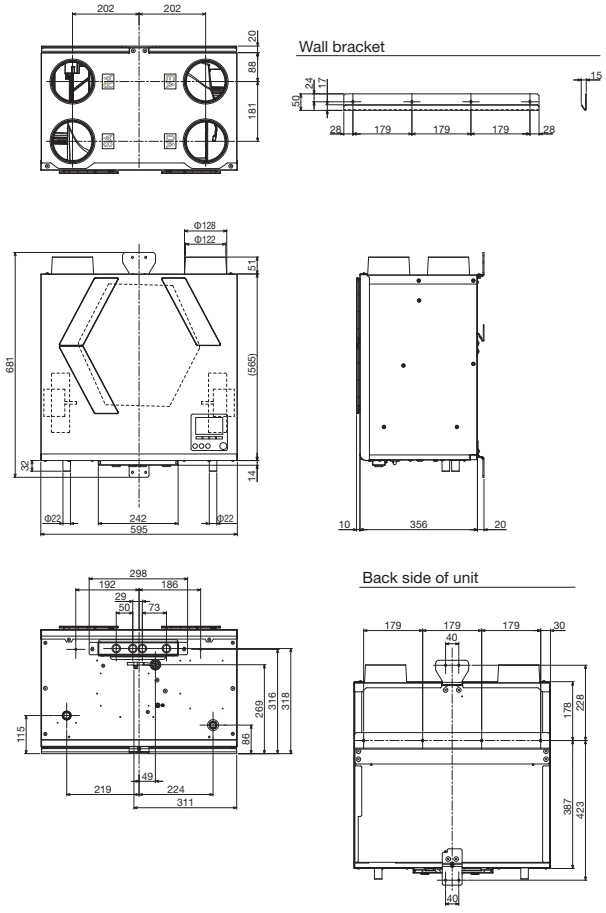


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

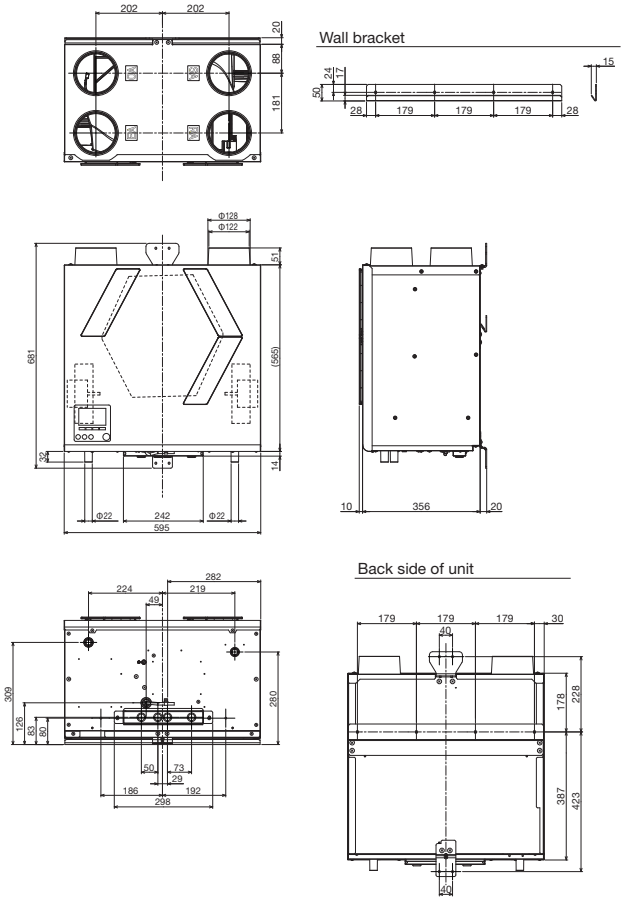
Dimensions

VL-250CZPVU-R-E



Unit: mm

VL-250CZPVU-L-E



Unit: mm

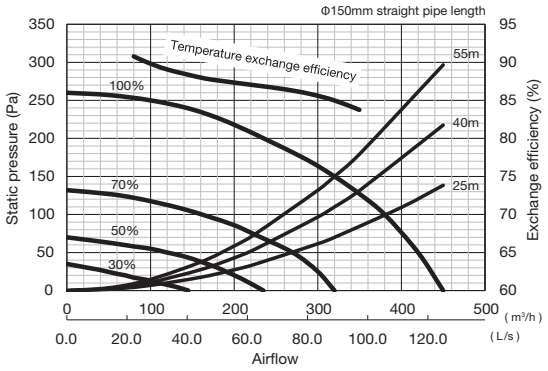
VL-350CZPVU-R/L-E

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^3/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			

■ Attention

1. The above values are at factory default.
2. The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. The sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Characteristic Curves

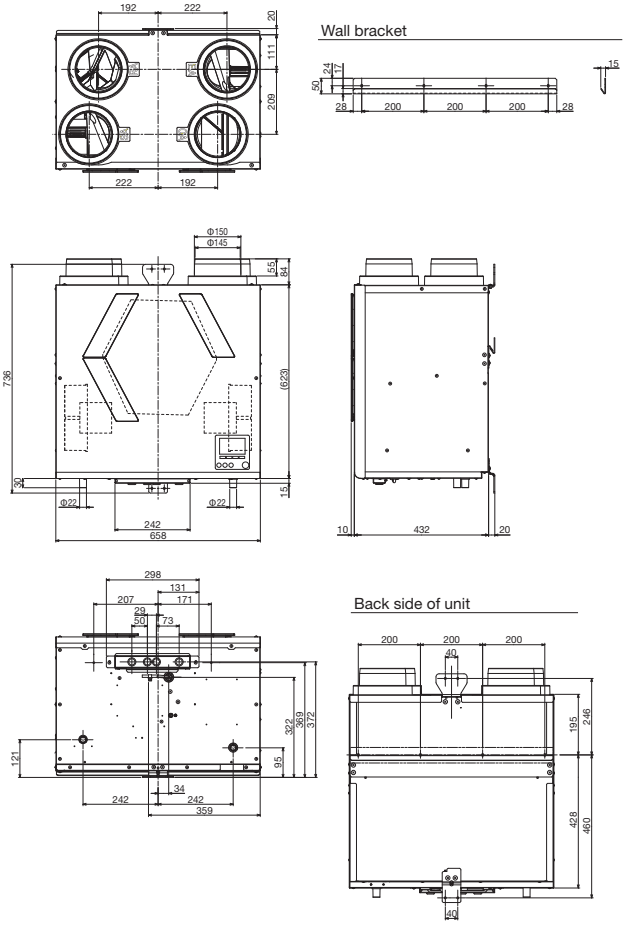


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

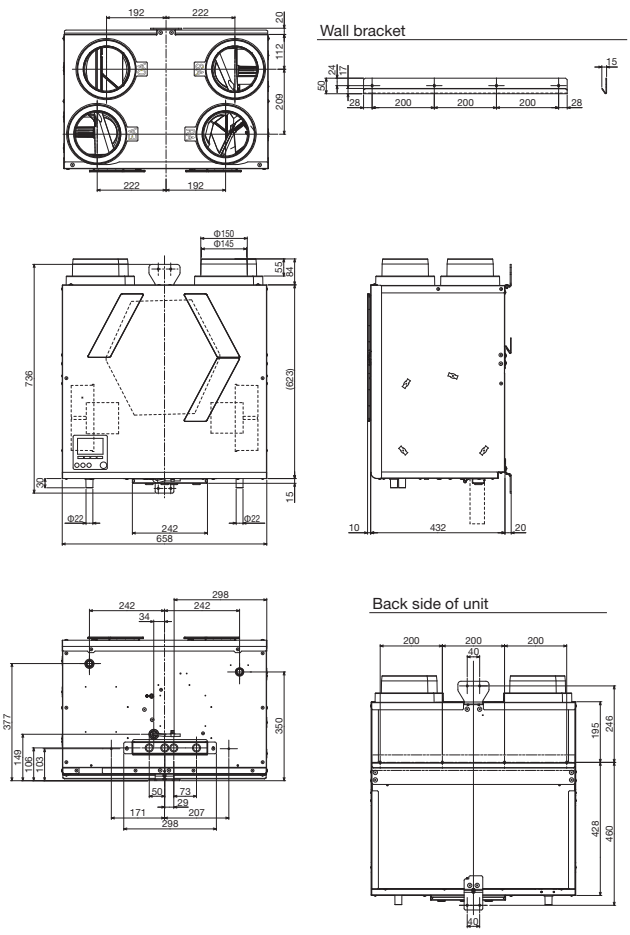
Dimensions

VL-350CZPVU-R-E



Unit: mm

VL-350CZPVU-L-E



Unit: mm

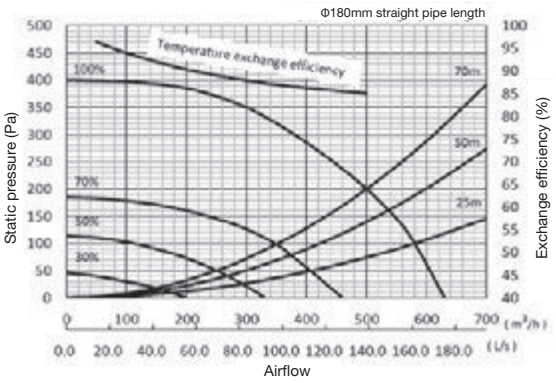
VL-500CZPVU-R/L-E

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)		1.73	0.77	0.40	0.19
Input Power (W)		275	104	49	21
Airflow	(m^3/h)	500	350	250	150
	(L/s)	139	97	69	42
External Static Pressure (Pa)		200	98	50	18
Temperature Exchange Efficiency (%)		85	87	89	92
Noise Level (dB)		37	29	22	15>
Energy Efficiency Class		A+			
Weight (kg)		39			
Dimensions (mm)		(H) 632 x (W) 725 x (D) 556			

■ **Attention**

1. The above values are at factory default.
2. The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. The sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Characteristic Curves

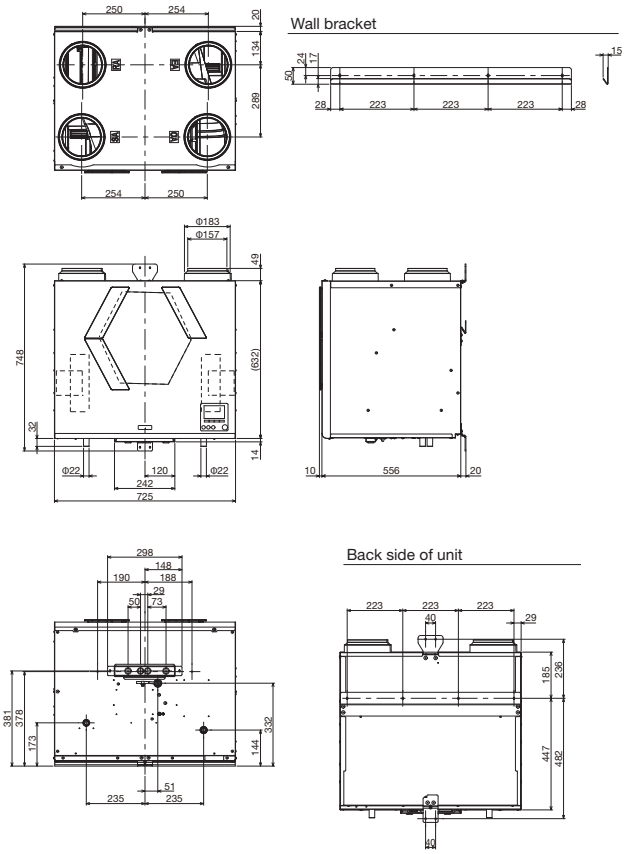


■ **Attention**

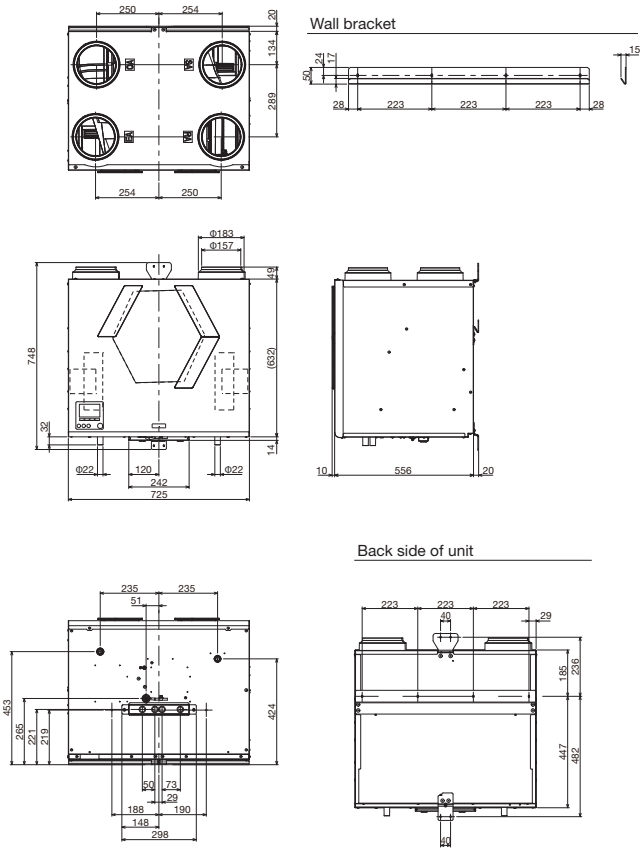
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

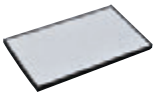
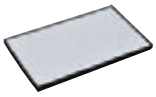
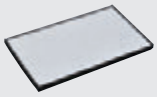
VL-500CZPVU-R-E



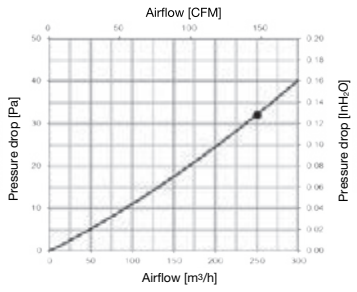
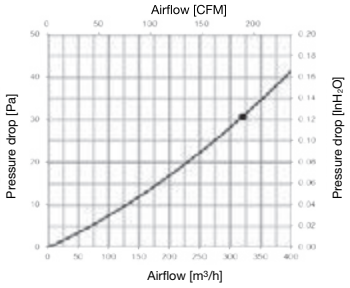
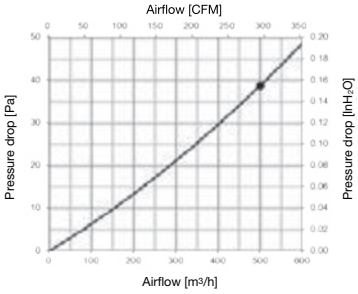
VL-500CZPVU-L-E

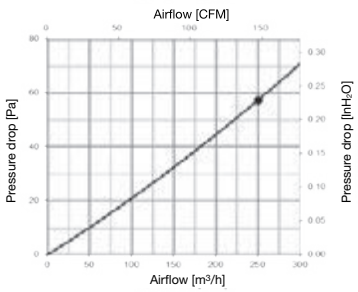
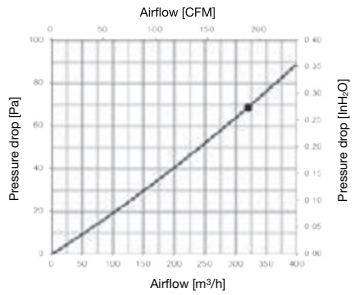
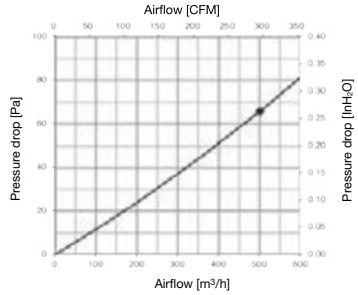


Filters

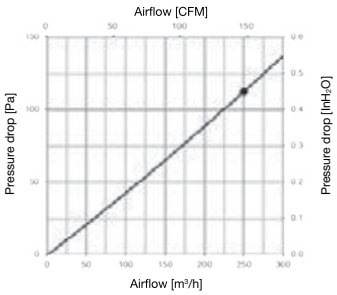
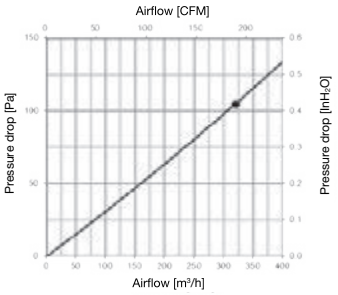
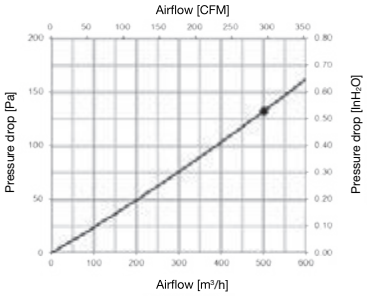
Type		Replacement Filter	Standard Filter	Medium Efficiency Filter	Advanced Efficiency Filter	Advanced High Efficiency Filter	NOx Filter
							
Model		P-250F-E P-350F-E P-500F-E	P-250SF-E P-350SF-E P-500SF-E	P-250MF-E P-350MF-E P-500MF-E	P-250PF-E P-350PF-E P-500PF-E	P-250PFH-E P-350PFH-E P-500PFH-E	P-250NF-E P-350NF-E P-500NF-E
Classification	EN779 (2012)	G3	G4	M6	M6	ePM1 55%	NO_2 90%
	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM10 80%	ePM2.5 50%		

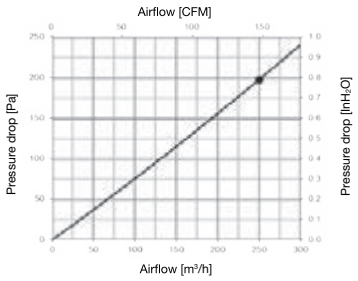
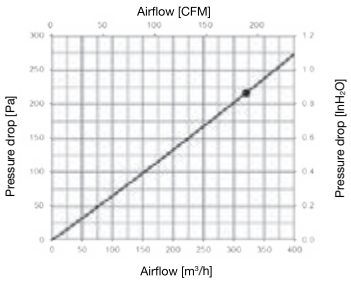
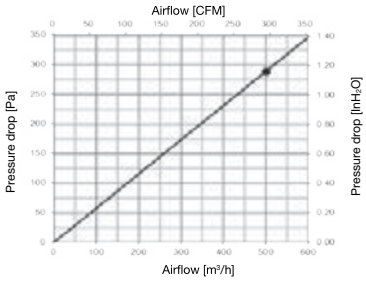
Pressure loss characteristics

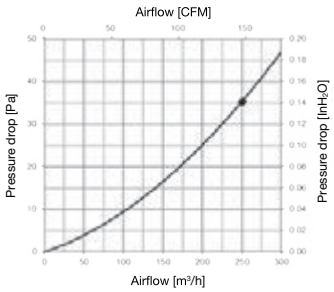
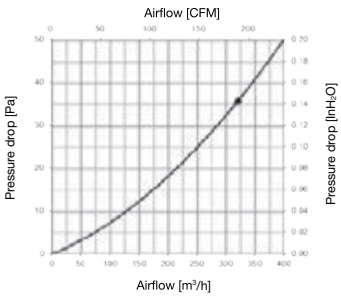
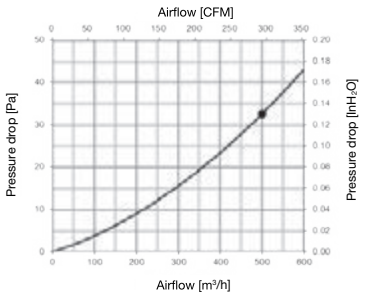
Model	P-250SF-E	P-350SF-E	P-500SF-E
Standard Filter			

Model	P-250MF-E	P-350MF-E	P-500MF-E
Medium Efficiency Filter			

Pressure loss characteristics

Model	P-250PF-E	P-350PF-E	P-500PF-E
Advanced Efficiency Filter			

Model	P-250PFH-E	P-350PFH-E	P-500PFH-E
Advanced High Efficiency Filter			

Model	P-250NF-E	P-350NF-E	P-500NF-E
NOx Filter			

Silencer Box

P-250/350/500SB-E

Noise level can be further decreased by using a silencer box.

Installation Image

Model P-250SB-E

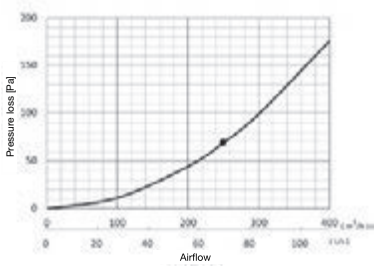
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			63	125	250	500	1000	2000	4000	8000
175	74	Outlet (SA/EA)	9	7	11	19	29	28	21	13

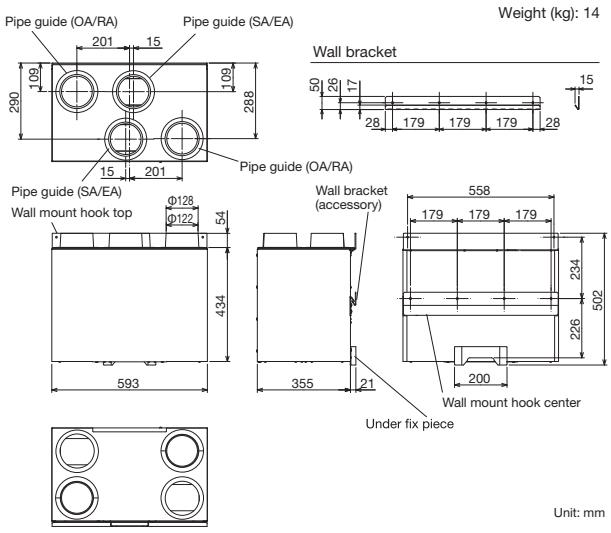
1. Figures in the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



■ Dimensions



Unit: mm

Model P-350SB-E

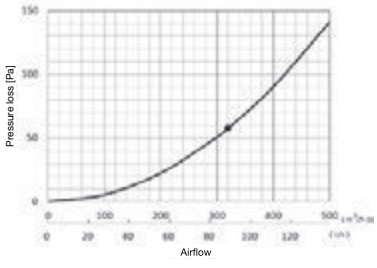
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			63	125	250	500	1000	2000	4000	8000
224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12

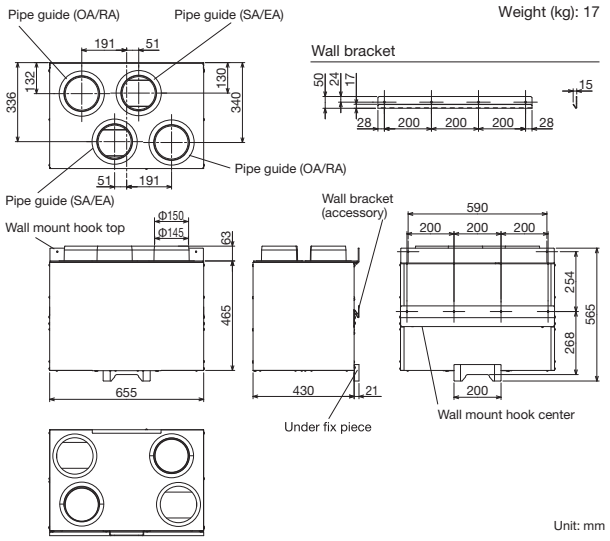
1. Figures in the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



■ Dimensions



Unit: mm

Model	P-500SB-E

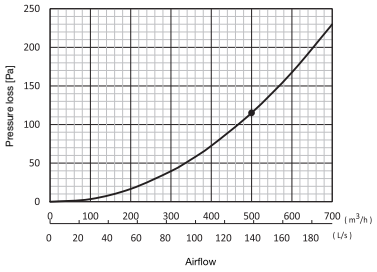
■ Attenuation of sound power level for center frequency

Airflow (m^3/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			63	125	250	500	1000	2000	4000	8000
350	98	Outlet (SA/EA)	10.5	9.5	13.0	21.0	27.0	29.0	26.0	14.0

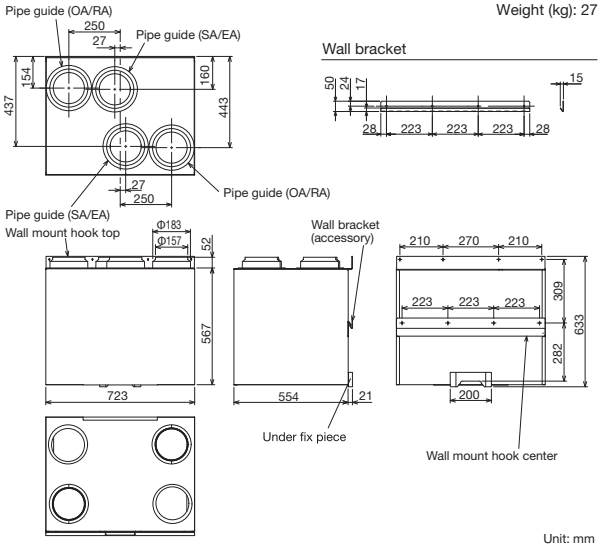
1. Figures on the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed on the just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When the airflow differs, the attenuation may be also different from the chart above.

■ Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



■ Dimensions

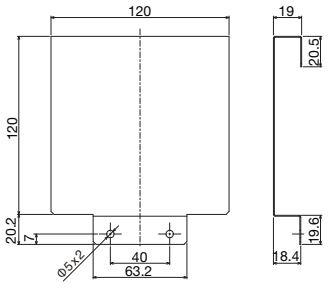


Remote Controller Cover

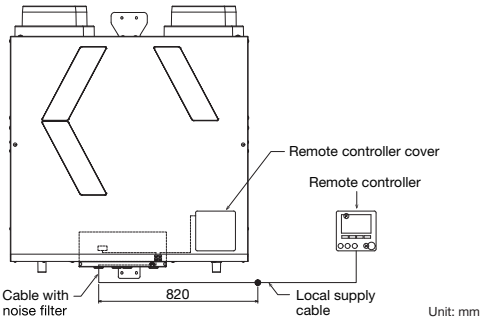
P-RCC-E

By attaching a Remote Controller Cover, the remote controller can be installed at a distance from the unit.

■ Dimensions



■ Configuration



Remote Controller Cover

Cable with Noise Filter

(Cable length outside the product: Approximately 820 mm)

VL-50(E)S2-E, VL-50SR2-E
VL-100(E)U5-E

Wall mounted models. Particularly suitable for houses and small offices.

VL-50(E)S2-E
VL-50SR2-E

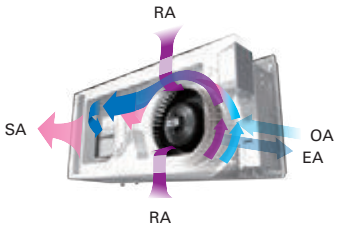
VL-100(E)U5-E

Decentralized ventilation: VL-50(E)S2-E, VL-50SR2-E and VL-100(E)U5-E

Product advantages

Air supplied and Exhausted Simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.

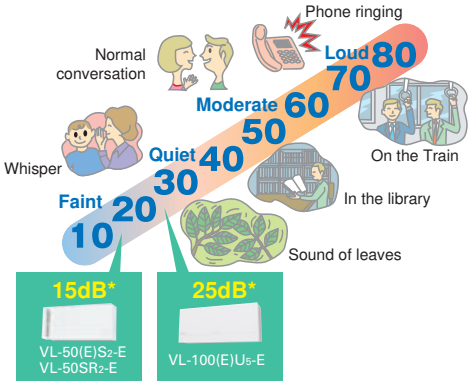


Energy Efficient

- Total heat exchange minimizes heat loss.
- Achieve over 80%* temperature efficiency.

*VL-100(E)U5-E at low fan speed in 230V 50Hz
*VL-50(E)S2-E at low fan speed in 230V 50Hz

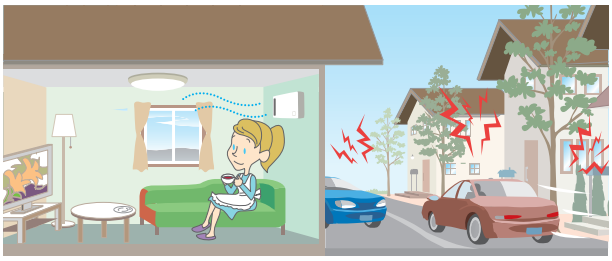
Low noise levels are ideal for bedrooms and children's rooms.



*Condition: 50Hz, 230V, low fan speed

Sound Insulation

A sound insulation effect reduces the level of noise generated outside.

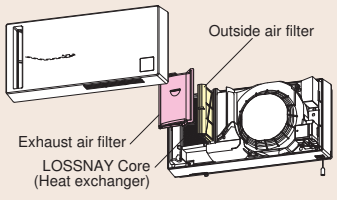


Sound Insulation Effect	Sound Source Side Average sound pressure dB	Sound Receiving Side Average sound pressure dB	Difference
	103.4	63.2	40.2

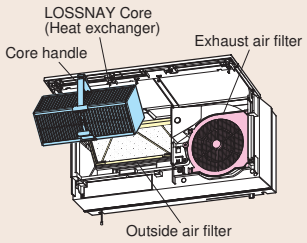
*Tested based on VL-08S2-AE
*Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.
VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E

Easy Maintenance

The only maintenance required is cleaning the outside-air filter and exhaust-air filter. Filters are easily accessible, making quick and thorough cleaning possible.



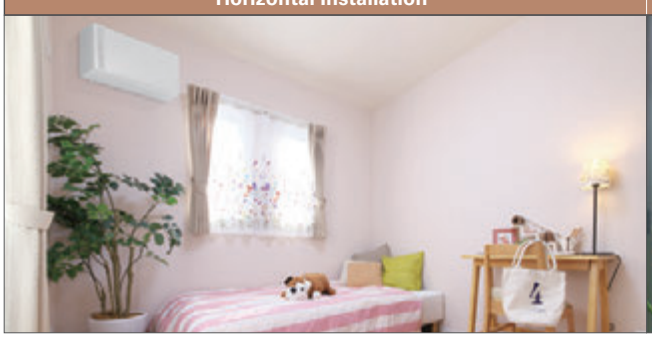
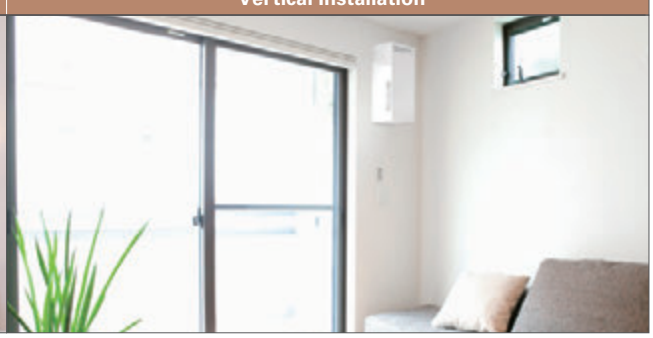
VL-50(E)S2-E
VL-50SR2-E



VL-100(E)U5-E

Flexible Installation for Only VL-50(E)S2-E and VL-50SR2-E

Both horizontal and vertical installations are possible to fit various types of rooms.

Horizontal Installation	Vertical Installation
	

VL-50(E)S$_2$-E, VL-50SR$_2$-E, VL-100(E)U$_5$-E

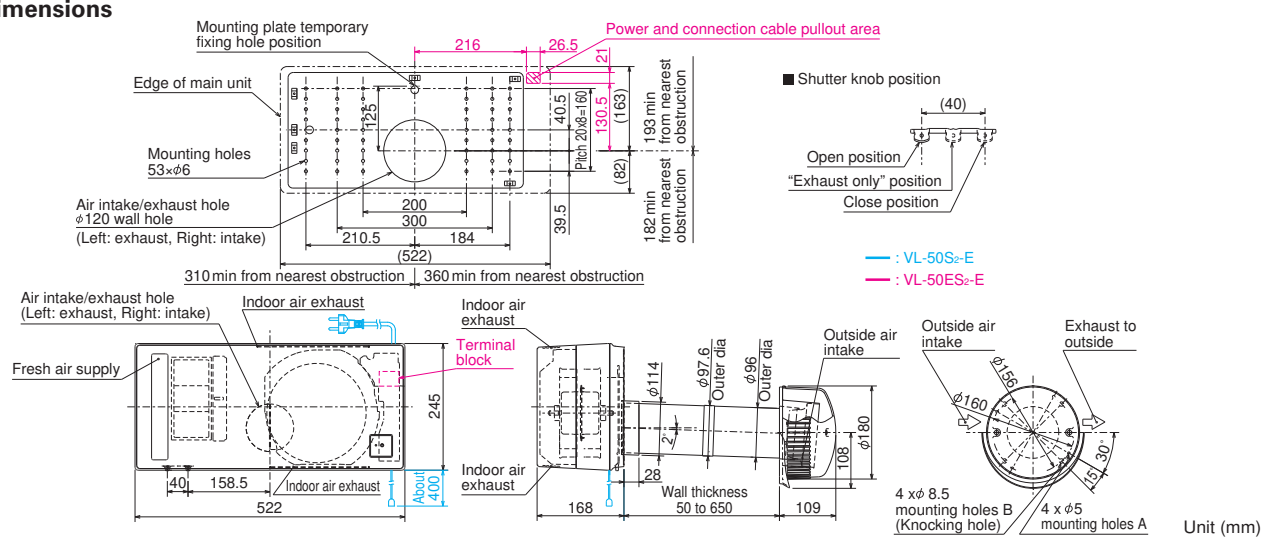
Specifications

Model: VL-50S$_2$-E (Pull-Switch Model) and VL-50ES$_2$-E (Wall-Switch Model)

Model	VL-50(E)S$_2$-E							
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Airflow (m^3/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4	20	4.5	21	5	21	5.5
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	C							

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions



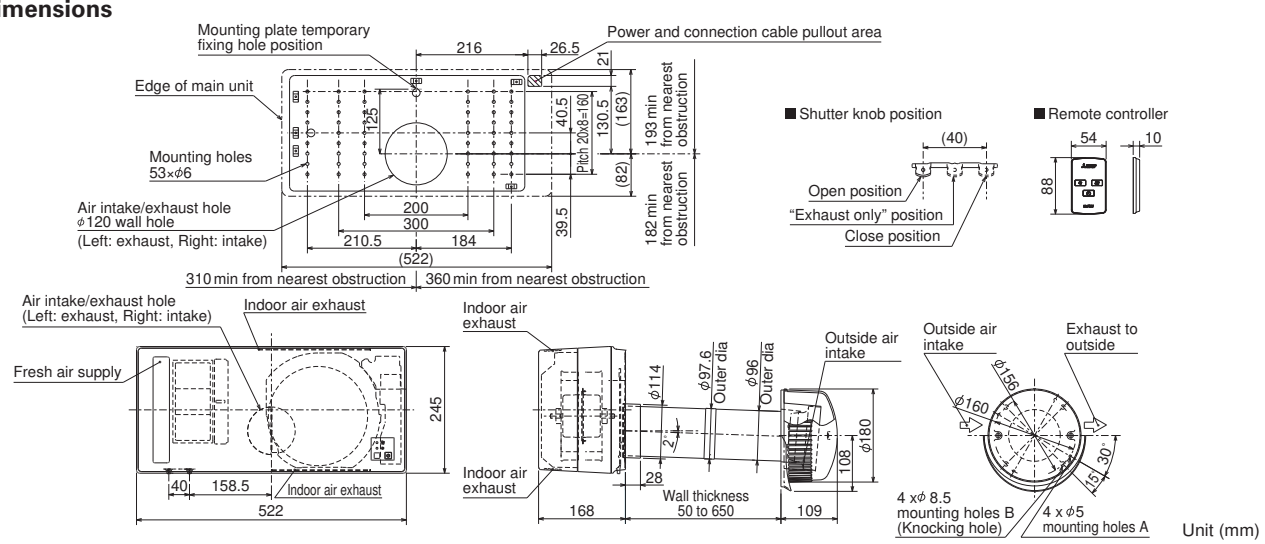
Unit (mm)

Model: VL-50SR$_2$-E (Remote Controller Model)

Model	VL-50SR$_2$-E							
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Airflow (m^3/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4.5	20	5	21	5.5	21	6
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	C							

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions



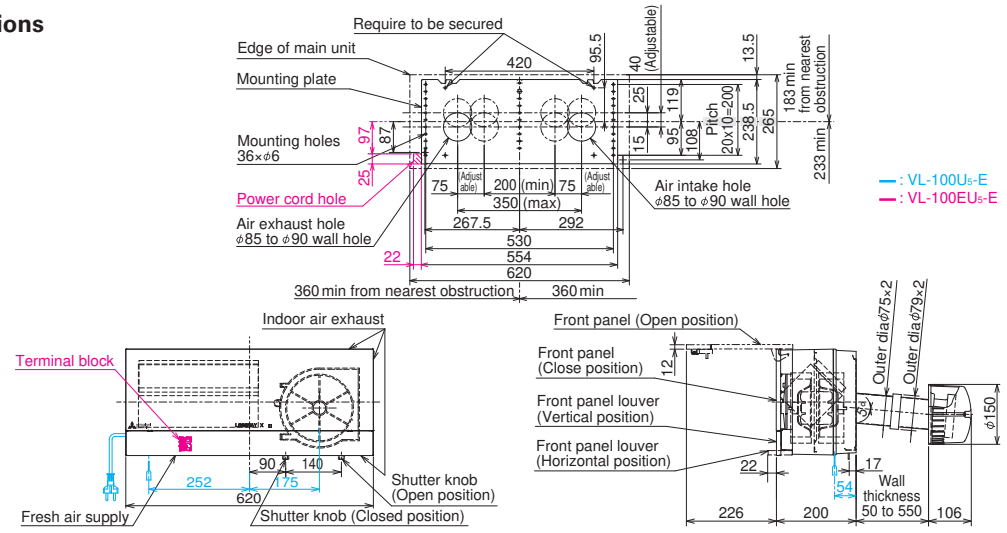
Unit (mm)

Model: VL-100U5-E (Pull-Switch Model) and VL-100EU5-E (Wall-Switch Model)

Model	VL-100(E)U5-E							
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Airflow (m³/h)	100	55	105	60	106	61	103	57
Power consumption (W)	30	13	31	15	34	17	34	17
Temperature exchange efficiency (%)	73	80	73	80	72	79	73	80
Noise level (dB)	36.5	24	37	25	38	27	38	25
Weight (kg)	7.5							
Specific energy consumption class	B							

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

Dimensions



Unit (mm)

Optional Parts

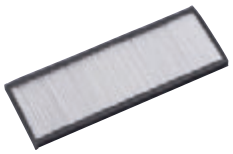
Optional Parts for VL-50(E)S2-E and VL-50SR2-E

Filter, Extension Pipe and Stainless Hood

Type	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	Stainless Hood
Design					
Model	P-50F2-E	P-50HF2-E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	–	–	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)	G3	–	–	–	–
Classification (ISO16890)	Coarse 35%	ePM10 75%	–	–	–

Optional Parts for VL-100(E)U5-E

Filter and Extension Pipe

Type	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint
Design				
Model	P-100F5-E	P-100HF5-E	P-100P-E	P-100PJ-E
Feature	–	–	Total length when connected to the joint is 300mm.	• Joint for extension pipe • Screw-in method
Classification (EN779:2012)	G3	M6	–	–
Classification (ISO16890)	Coarse 35%	ePM10 70%	–	–

PLASMA QUAD PROTECT

Features and Concepts

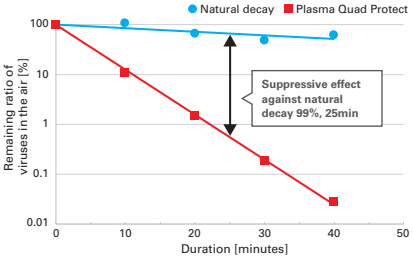
Reliable purification performance

JC-23KR-EU is equipped with a glass fiber HEPA filter rated as an EN1822 H13 grade filter.
This product has a CADR (Clean Air Delivery Rate) value of 254m³/h (Pollen), 222m³/h (Dust) and 238m³/h (Smoke).

Tests report results

Suppresses viruses

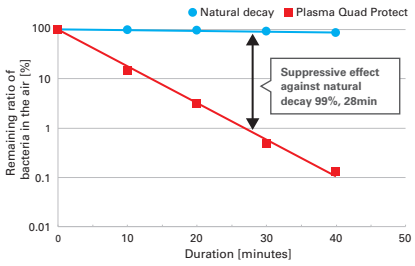
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space:
99% suppression in 25 minutes
This result does not represent the product's performance in a practical operating environment.



[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying virus in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of virus in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 1 type of virus
[Result] 99% suppression after 25min.
Test Report No.2022_0421

Suppresses bacteria

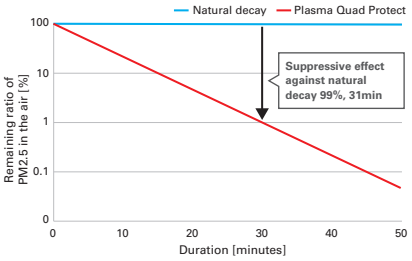
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space:
99% suppression in 28 minutes
This result does not represent the product's performance in a practical operating environment.



[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying bacteria in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of bacteria in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 1 type of bacteria
[Result] 99% suppression after 28min.
Test Report No.2022_0420

Removes 99% PM2.5

Test result of operating the unit with an air volume of 230m³/h in a 27.5m³ closed space: 99% suppression in 31 minutes
PM2.5 is a general term for fine particulate matter of 2.5μm or less

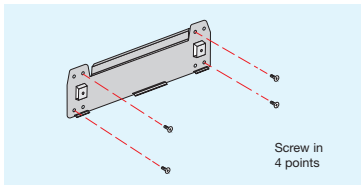


[Testing method] According to JEM1467.
Operating JC-23KR-EU (230m³/h, 31min.) in a closed space of 27.5m³. Additional particle from outside is not considered. This result does not represent the product's performance in an actual operating environment.

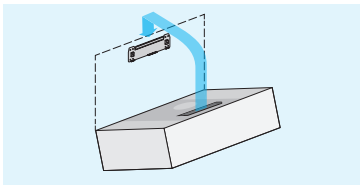
Easy, space-saving installation

Quick and easy installation, space-saving and design that compliments any interior.

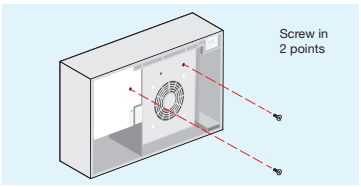
1 Attach the mounting plate to the wall by screwing in 4 points.



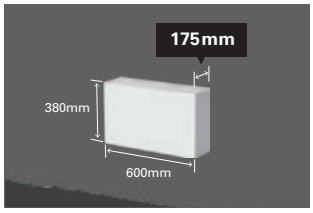
2 Hook the unit onto the mounting plate.



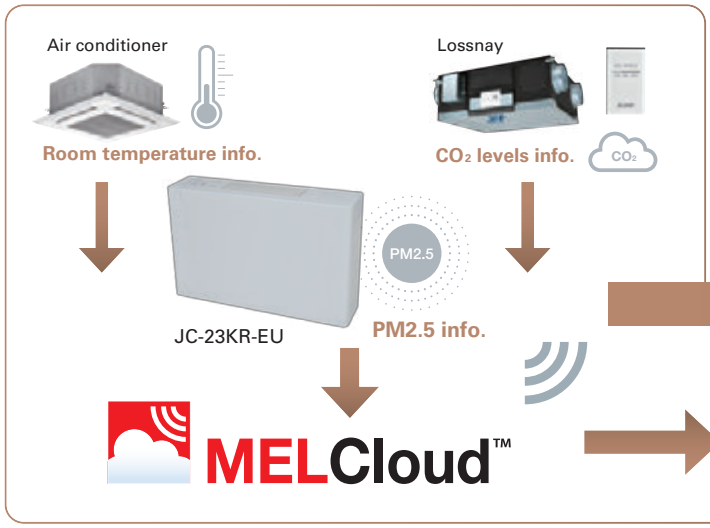
3 Screw in 2 points to secure the unit to the mounting plate.



With a depth of just 175mm, the unit can be installed on the wall and save floor space in the room.
Its simple appearance matches any wall color or furniture.



New MELCO package solution



Total air coordination by MELCloud.
Each product possesses information about room air quality (temperature, PM2.5, CO_2 level). By connecting these products to MELCloud, end users can check IAQ information and control air quality via the MELCloud app.

*In order to use MELCloud, Wi-Fi interface must be purchased and connected to the product.

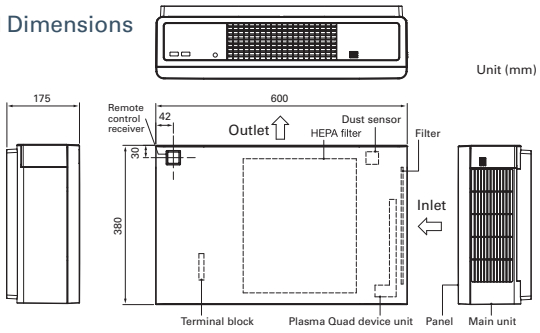
Visualization

Specifications

Model	Voltage	Fan speed	Power consumption [W]	Air volume [m³/h]	Noise level [dB]	Weight [kg]
JC-23KR-EU	220V	Silent	8	20	34	8.5
		Powerful	63.5	230	72	
	230V	Silent	8	20	34	
		Powerful	63.5	230	72	
	240V	Silent	8	20	34	
		Powerful	63.5	230	72	

JC-23KR-EU has an Auto mode.
This product adjusts air volume according to the quantity of dust detected by the dust sensor.

Dimensions



Replacement HEPA filter

P-23KHF-E

Small air volume type

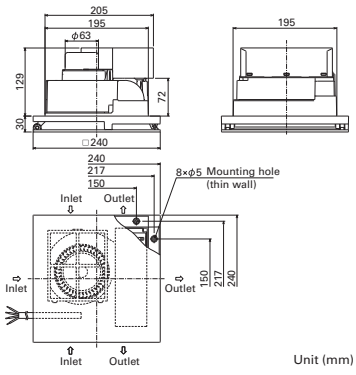
JC-4K-EU

- Plasma Quad device
- Dual Barrier Coating
- Low noise operation and energy efficiency
- Installed to celling and wall

Specifications

Model	Voltage	Fan speed	Power consumption [W]	Air volume [m³/h]	Noise level [dB]	Weight [kg]
JC-4K-EU	220V	High	11.5	38	35	2.4
		Low	7.5	19	20	
	230V	High	12.5	40	36.5	
		Low	8	20	21	
	240V	High	13.5	42	38.5	
		Low	8.5	21	22	

Dimensions



Optional parts list

Optional Parts \ LOSSNAY		LGH-15RVX3-E	LGH-25RVX3-E	LGH-35RVX3-E	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX3-E	LGH-200RVX3-E	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	GUF-50RD4	GUF-50RDH4	GUF-100RD4	GUF-100RDH4	LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E
LOSSNAY Remote Controller	PZ-62DR-EA/EB	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●
	PZ-43SMF-E	●	●	●	●	●	●	●	●	●	●	●	●					●	●	●
Standard Filter (Coarse 60%)	PZ-15RF3-E	●																		
	PZ-25RF3-E		●																	
	PZ-35RF3-E			●																
	PZ-50RF3-E				●															
	PZ-65RF3-E					●														
	PZ-80RF3-E						●		●											
	PZ-100RF3-E							●		●										
ePM1 75% Filters	PZ-15RFP3-E	●																		
	PZ-25RFP3-E		●																	
	PZ-35RFP3-E			●																
	PZ-50RFP3-E				●															
	PZ-65RFP3-E					●														
	PZ-80RFP3-E						●		●											
	PZ-100RFP3-E							●		●										
M6 Filters	PZ-15RFM3-E	●																		
	PZ-25RFM3-E		●																	
	PZ-35RFM3-E			●																
	PZ-50RFM3-E				●															
	PZ-65RFM3-E					●														
	PZ-80RFM3-E						●		●											
	PZ-100RFM3-E							●		●										
F8 Filters	PZ-15RFH3-E	●																		
	PZ-25RFH3-E		●																	
	PZ-35RFH3-E			●																
	PZ-50RFH3-E				●															
	PZ-65RFH3-E					●														
	PZ-80RFH3-E						●		●											
	PZ-100RFH3-E							●		●										
Standard Filters	PZ-50RF8-E													●	●					
	PZ-100RF8-E															●	●			
	PZ-150RTF-E										●									
	PZ-250RTF-E											●	●							
	PZ-S50RF-E																	●		
	PZ-S80RF-E																		●	
	PZ-S100RF-E																			●
High-efficiency Filters	PZ-50RFM-E													●	●					
	PZ-100RFM-E															●	●			
	PZ-S50RFM-E																	●		
	PZ-S80RFM-E																		●	
	PZ-S100RFM-E																			●
Advanced High-efficiency Filters	PZ-50RFP2-E													●	●					
	PZ-100RFP2-E															●	●			
	PZ-M6RTFM-E										●	●	●							
	PZ-F8RTFM-E										●	●	●							
	PZ-S50RFH-E																	●		
	PZ-S80RFH-E																		●	
	PZ-S100RFH-E																			●
Duct Silencer	PZ-100SS-E	●																		
	PZ-150SS-E		●	●																
	PZ-200SS-E				●	●								●	●			●		
	PZ-250SS-E						●	●	●	●						●	●		●	●
CO_2 Sensor	PZ-70CSD-E	●	●	●	●	●	●	●	●	●								●	●	●
	PZ-70CSW-E	●	●	●	●	●	●	●	●	●								●	●	●
Vertical installation parts	PZ-1VS-E	●	●	●	●															
	PZ-2VS-E					●	●	●												
Signal output terminal	PZ-4GS-E	●	●	●	●	●	●	●	●	●								●	●	●

Note: Please refer to each product page for required number of pieces/sets.

List of optional parts for the VL-CZPVU Series

Optional Parts \ LOSSNAY					VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
	Type	Classification (EN779:2012)	Classification (ISO16890)	Model			
Filter	Replacement Filter	G3	Coarse 55%	P-250F-E	●		
				P-350F-E		●	
				P-500F-E			●
	Standard Filter	G4	Coarse 90%	P-250SF-E	●		
				P-350SF-E		●	
				P-500SF-E			●
	Medium Efficiency Filter	M6	ePM10 80%	P-250MF-E	●		
				P-350MF-E		●	
				P-500MF-E			●
	Advanced Efficiency Filter	M6	ePM2.5 50%	P-250PF-E	●		
				P-350PF-E		●	
				P-500PF-E			●
	Advanced High Efficiency Filter		ePM1 55%	P-250PFH-E	●		
				P-350PFH-E		●	
				P-500PFH-E			●
	NoxFilter		NO2 90%	P-250NF-E	●		
				P-350NF-E		●	
				P-500NF-E			●
Silencer Box				P-250SB-E	●		
				P-350SB-E		●	
				P-500SB-E			●
Remote Controller Cover				P-RCC-E	●	●	●

List of optional parts for the VL-50/100 Series

Optional Parts \ LOSSNAY					VL-50S2-E	VL-50ES2-E	VL-50SR2-E	VL-100U5-E	VL-100EU5-E
	Type	Classification (EN779:2012)	Classification (ISO16890)	Model					
Filter	Replacement Filter	G3	Coarse 35%	P-50F2-E	●	●	●		
				P-100F5-E				●	●
	High Efficiency Filter		ePM10 75%	P-50HF2-E	●	●	●		
		M6	ePM10 70%	P-100HF5-E				●	●
Extension Pipe				P-50P-E	●	●	●		
				P-100P-E				●	●
Joint				P-50PJ-E	●	●	●		
				P-100PJ-E				●	●
Stainless Hood				P-50VSQ5-E	●	●	●		

⚠ NOTICE

Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R410A (GWP: 2088) or R32 (GWP: 675). *These GWP values are based on Regulation (EU) No.517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP: 1975), R32 (GWP: 550)

⚠ CAUTION

Do not install indoor units in areas (e.g. mobile phone base stations) where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high as this may result in a chemical reaction.

⚠ WARNING

When installing or relocating or servicing our air-conditioning equipment, use only the specified refrigerant (R410A or R32) to charge the refrigerant lines.
Do not mix it with any other refrigerant and do not allow air to remain in the lines.
If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.
The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

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