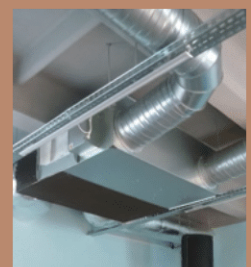


L OSSNAY SYSTEM



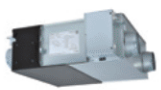
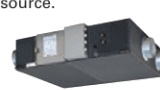





SELECTION

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.

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	
Commercial	LGH-RVX3 Series			●	●	●	●	●	●	●	●		●	●	
	LGH-RVXT Series											●		●	●
	LGH-RVS Series							●		●	●				
	GUF Series							●			●				
Residential	VL-CZPVU Series				●	●	●								
	VL-100(E)U5-E		●												
	VL-50(E)S2-E VL-50SR2-E	●													

PRODUCT LINEUP

Commercial		Residential	
Ceiling Concealed Type		Vertical Type	Wall mounted Type
<p>LGH-RVX3 Series [ERV]</p> <p>A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.</p> 	<p>GUF Series [ERV] (LOSSNAY with Dx-Coil Unit)</p> <p>Heat recovery units with a heating and cooling system that uses the CITY MULTI outdoor units as a heat source.</p> 	<p>VL-CZPVU Series [HRV]</p> <p>Vertical type for residential use. Centralized ventilation with sensible heat exchange.</p> 	<p>VL-100(E)U5-E [ERV]</p> <p>Wall mounted models. Particularly suitable for houses and small offices.</p> 
<p>LGH-RVXT Series [ERV]</p> <p>Thin, large airflow models of the LGH series that deliver high performance and functions.</p> 	<p>LGH-RVS Series [HRV]</p> <p>Sensible heat models of the LGH series that can also be installed in sanitary areas.</p> 		<p>VL-50(E)S2-E [ERV] VL-50SR2-E</p> <p>Wall mounted models for smaller air volumes.</p> 

*ERV: Energy recovery ventilator *HRV: Heat recovery ventilator

PLASMA QUAD PROTECT LINEUP

The Plasma Quad Protect lineup includes two models to match the area that needs to be covered.

JC-23KR-EU
Air purifier for large areas. Includes a HEPA filter and can be installed on the wall.



JC-4K-EU
Air circulator for small areas. Can be installed on either the ceiling or wall.



Commercial Use LOSSNAY

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

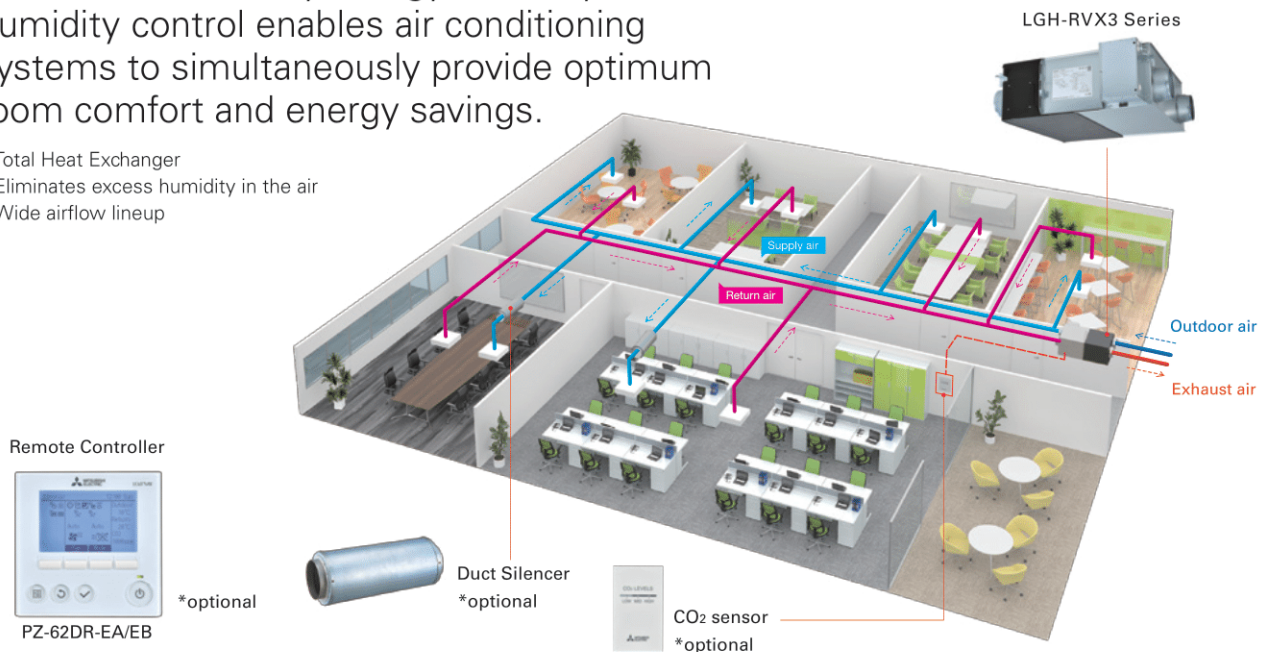
Energy Recovery Ventilation

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 airflow lineup



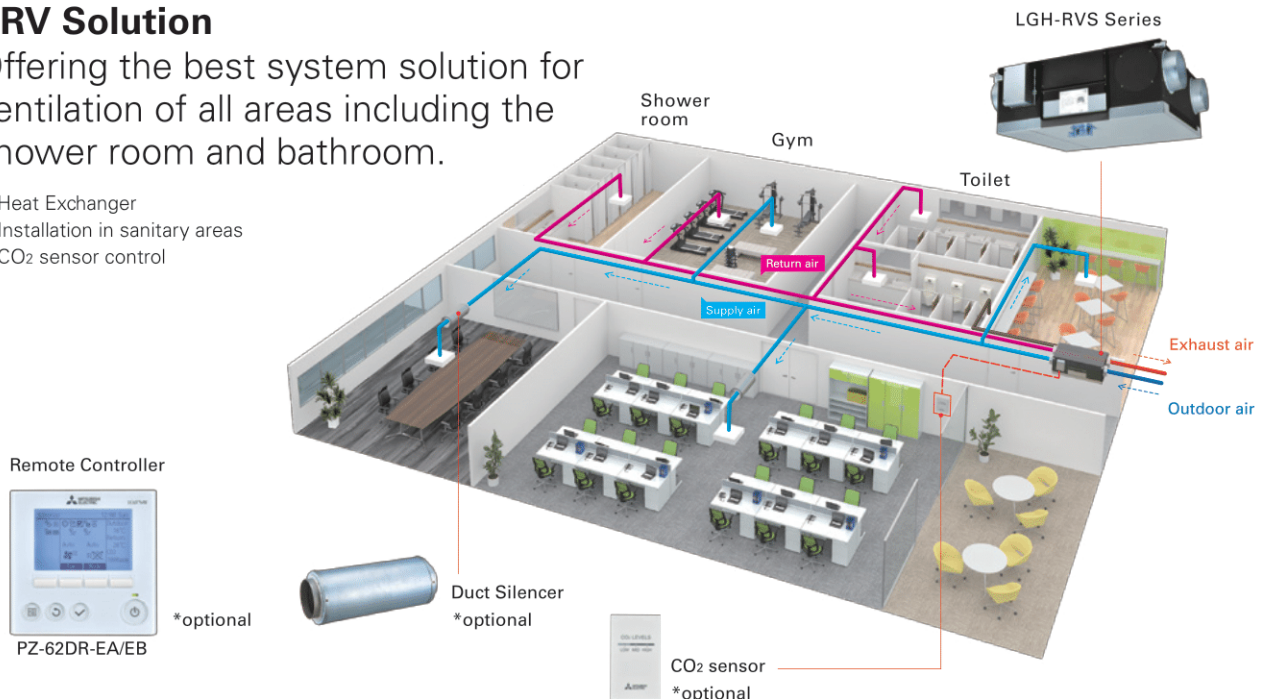
Heat Recovery Ventilation

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
- ✓ CO₂ sensor control



Residential Use LOSSNAY

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

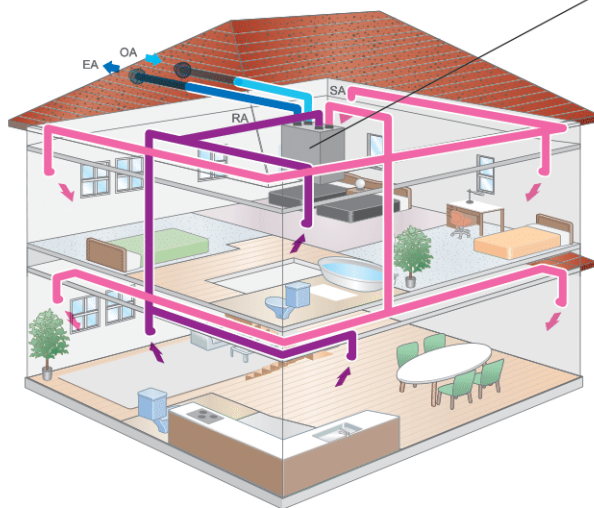
Heat Recovery Ventilation

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

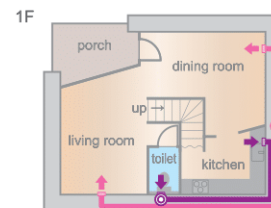
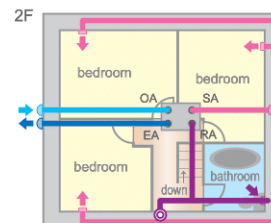
Centralized Ventilation Solution

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.

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



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



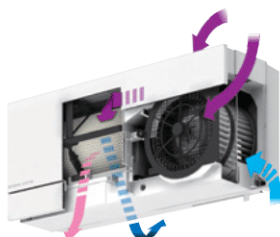
Energy Recovery Ventilation

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

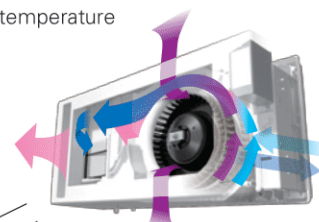
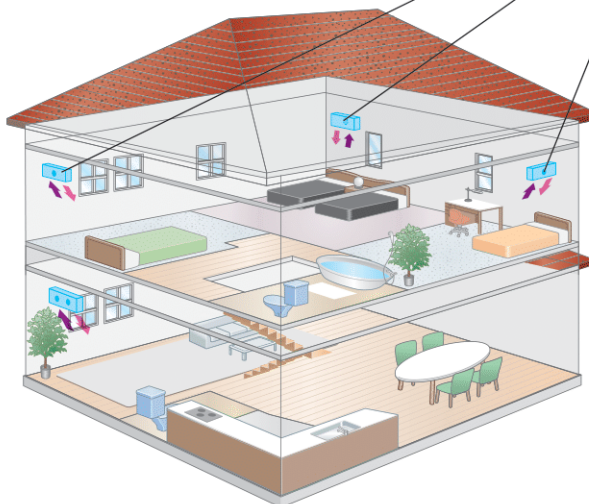
Decentralized Ventilation Solution

Install a wall-mounted LOSSNAY in each room. The heat recovery system provides fresh air at a comfortable air temperature. The total heat exchanger effectively reduces heat loss.

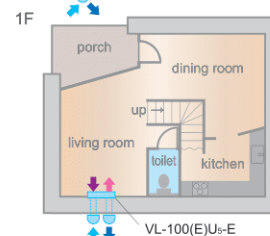
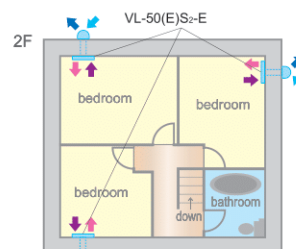
- ✓ Total Heat Exchanger
- ✓ Individual Ventilation
- ✓ Flexible Installation
- ✓ Easy Maintenance
- ✓ Stylish Design



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



VL-50S2-E (Pull-Switch Model)
VL-50ES2-E (Wall-Switch Model)
VL-50SR2-E (Remote Controller Model)



LOSSNAY

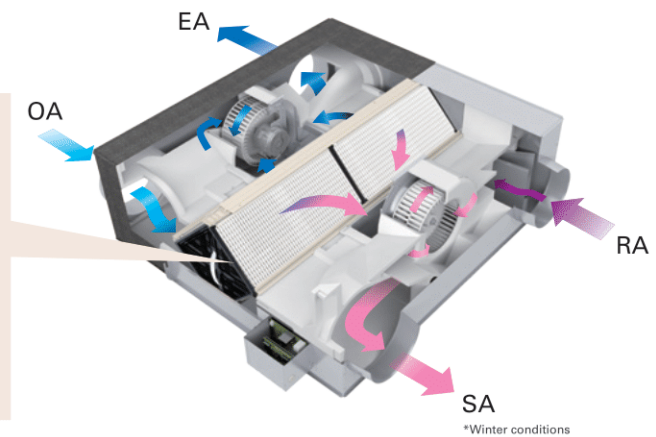
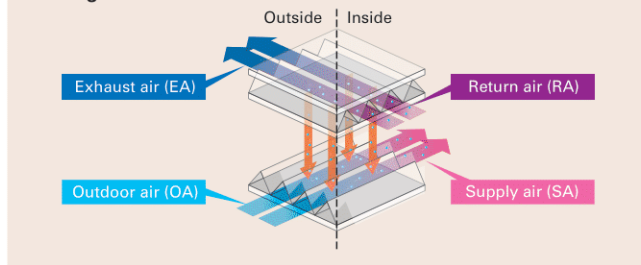
LOSSNAY ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



Optimized Indoor Air Quality 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

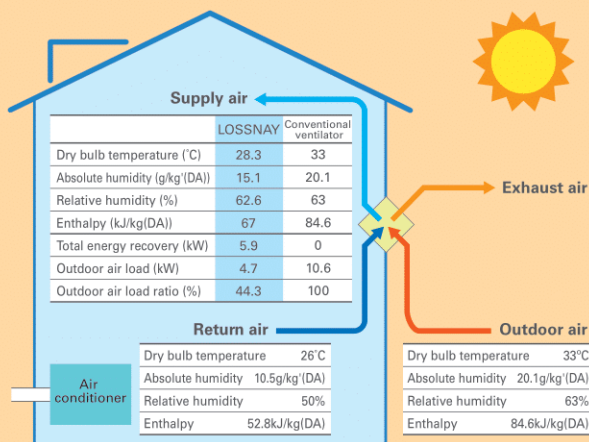


What is Improved by Introducing LOSSNAY?

● Ventilation with maximized comfort

In summer

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



Heat recovery calculation

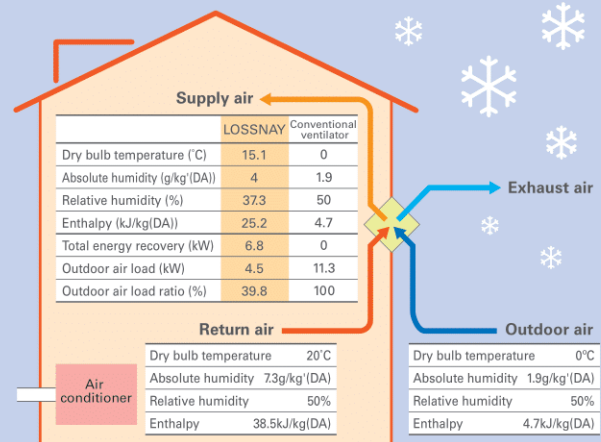
$$\text{Indoor supply air temperature (°C)} = \frac{\text{Outdoor temperature (°C)} - \left\{ \frac{\text{Outdoor temperature (°C)} - \text{Indoor temperature (°C)}}{\text{Temp. recovery efficiency (\%)}} \right\} \times \text{Temp. recovery efficiency (\%)}$$

Calculation example: $28.3^\circ\text{C} = 33^\circ\text{C} - (33^\circ\text{C} - 26^\circ\text{C}) \times 67.5\%$

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

In winter

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



Heat recovery calculation

$$\text{Indoor supply air temperature (°C)} = \left\{ \frac{\text{Indoor temperature (°C)} - \text{Outdoor temperature (°C)}}{\text{Temp. recovery efficiency (\%)}} \right\} \times \text{Temp. recovery efficiency (\%)} + \text{Outdoor temperature (°C)}$$

Calculation example: $15.1^\circ\text{C} = (20^\circ\text{C} - 0^\circ\text{C}) \times 75.5\% + 0^\circ\text{C}$

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

LGH-RVX3 SERIES



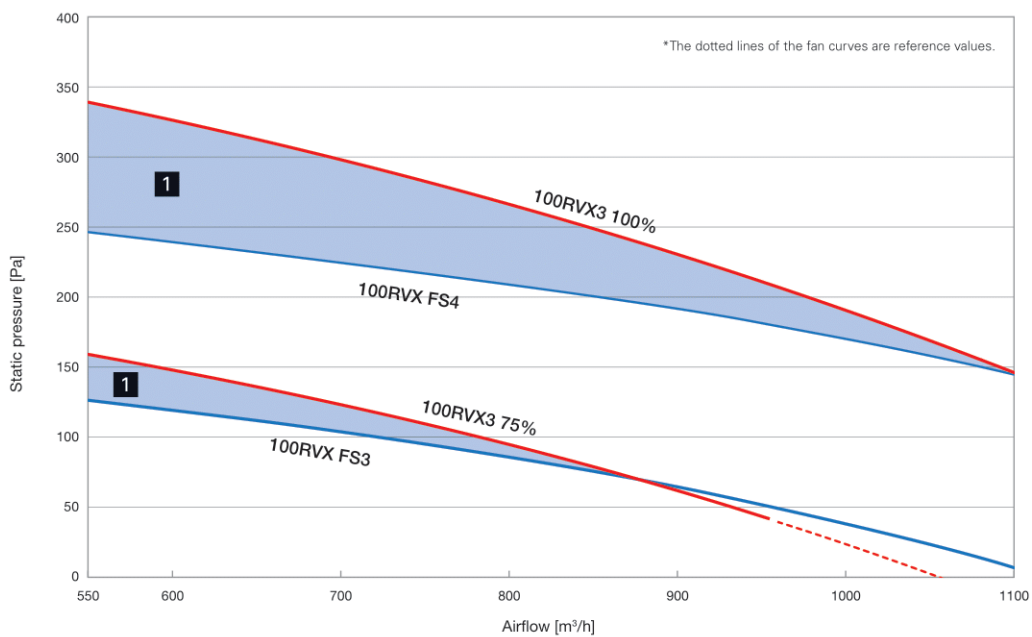
A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.

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

Four Key Features

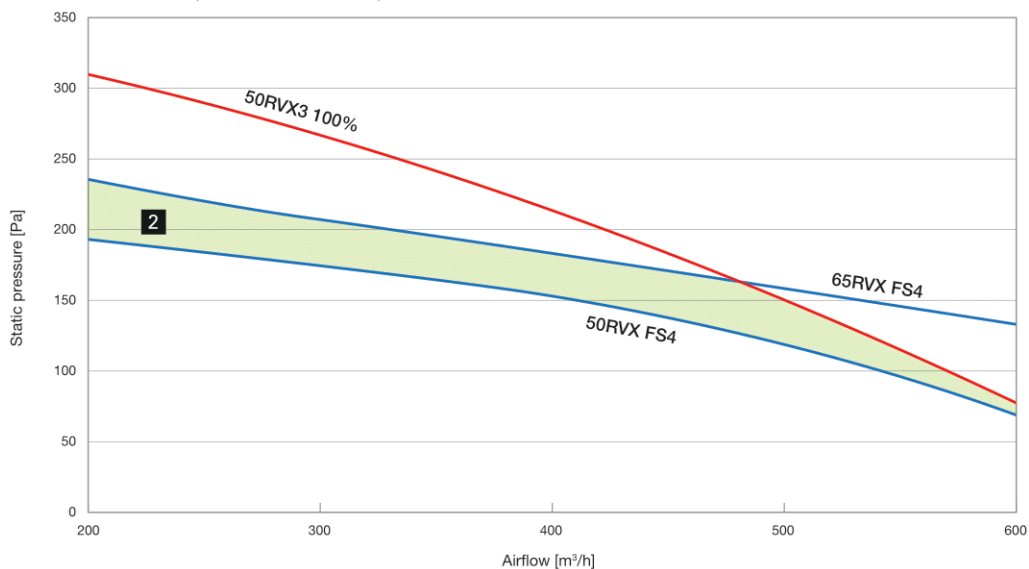
High Static Pressure

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 has become possible.



1 Increased static pressure.

Models smaller than previous models may be chosen.



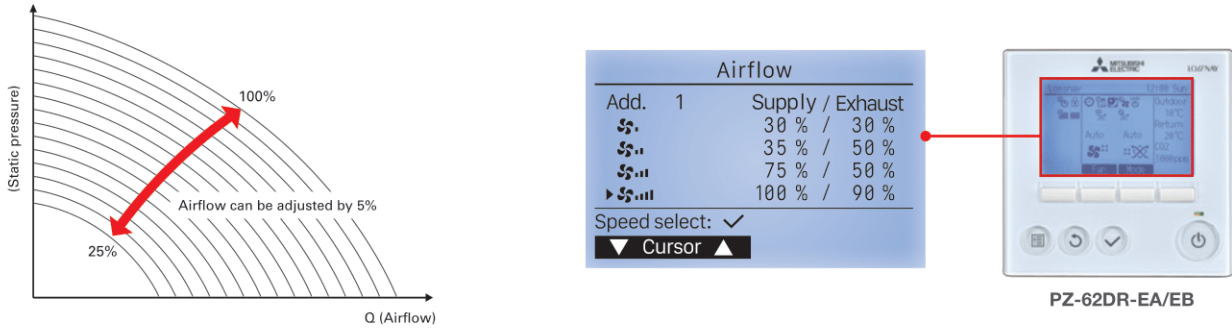
2 Where 65RVX was previously chosen, 50RVX3 (one size down) may now be chosen, owing to its increased external static pressure.

Controllability

Improved airflow range

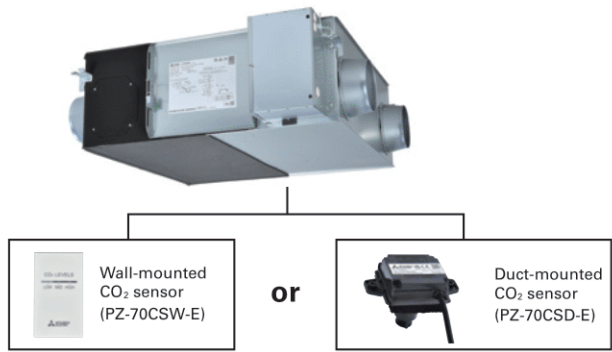
Flexible airflow setting

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.



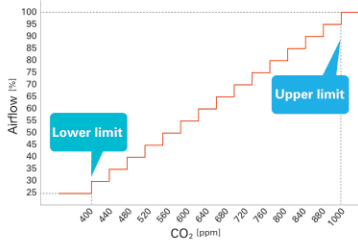
CO2 sensor

A CO2 sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the detected CO2 level. It improves total heat exchange efficiency and contributes to energy savings.

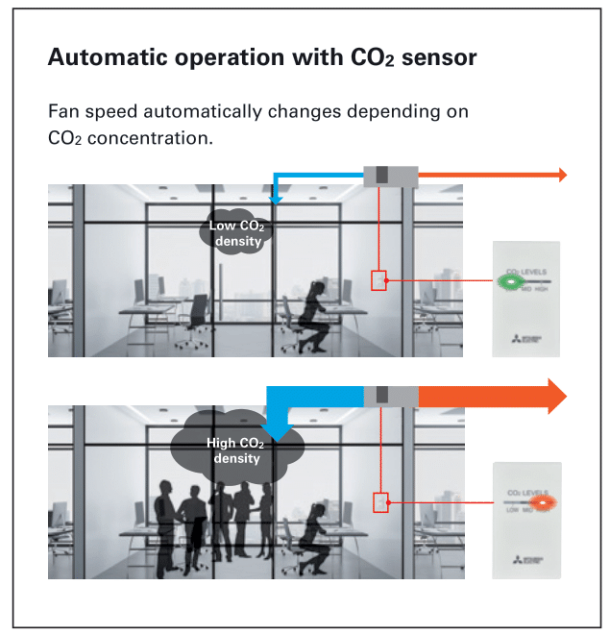
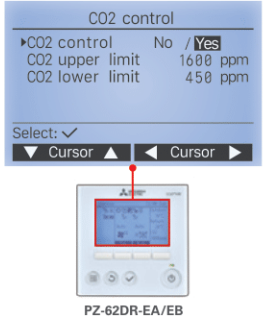


Two types of CO2 sensors are available: wall-mounted and duct-mounted types. Power is supplied to the CO2 sensor from the LOSSNAY board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the CO2 concentration level.

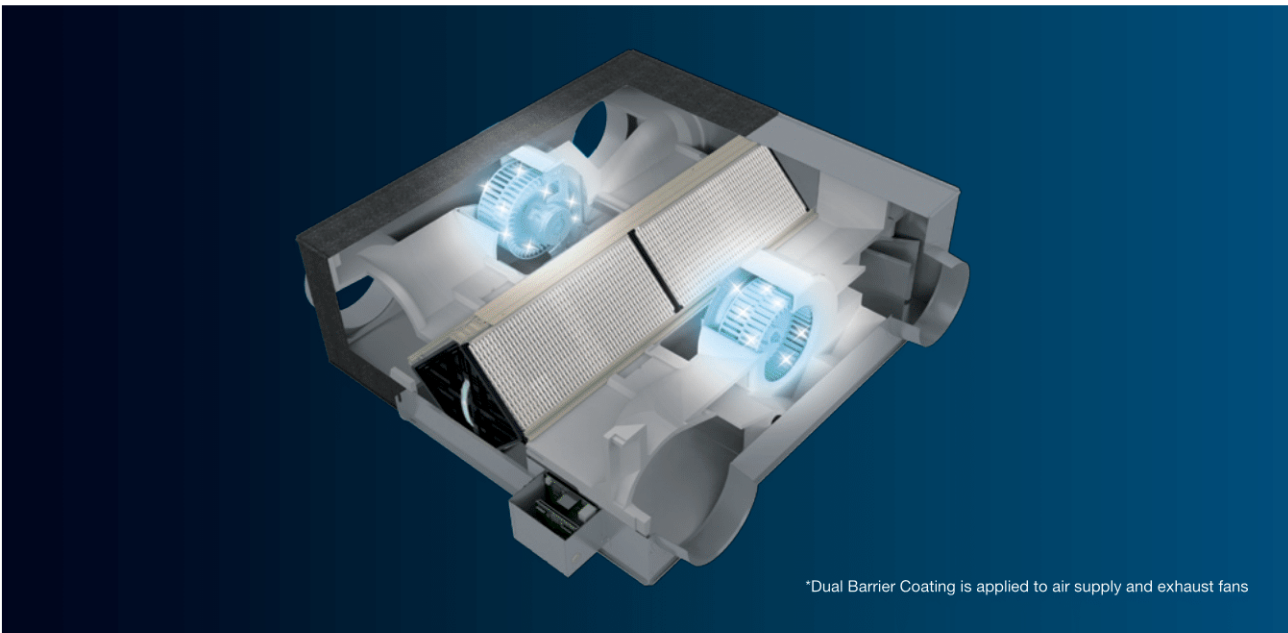


Both upper and lower limits can be adjusted.
Upper limit: from 600 to 2000 ppm.
Lower limit: from 300 to (upper limit - 300) ppm.
50 ppm increments.





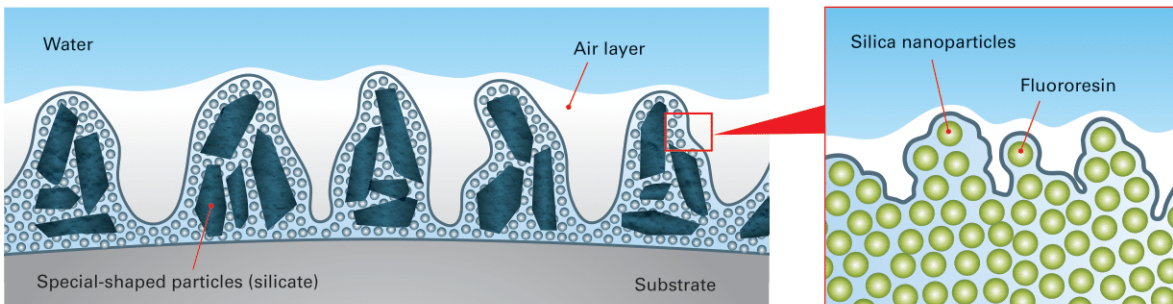
Dual Barrier Coating



Dual Barrier Coating

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

■ Conceptual image of dual barrier coating



Upgraded Filters

The replacement filter has a certification of Coarse 60% (measured by ISO16890:2016).

PZ-**RF3-E
Replacement filter

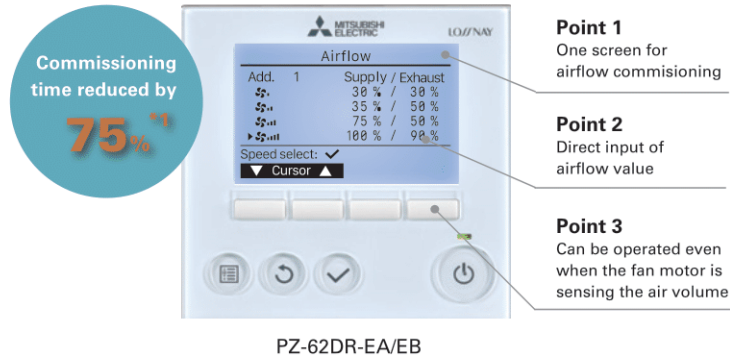


Installation Work

Short Commissioning Time with the New Remote Controller

New Remote Controller PZ-62DR-EA/EB, Supply and Exhaust air volume from FS1 to FS4 directly on one screen. It can also be operated while the fan motor is sensing the air volume.

By using PZ-62DR-EA/EB, the commissioning time for LGH-RVX3 is reduced by 75%*1 compared to the previous RVX series.



*1: The average reduction rate when installing LGH-100RVX-E with PZ-61DR-E and LGH-100RVX3-E with PZ-62DR-EA/EB. Setting work involves changing the supply/exhaust air volume. The time that can be reduced varies depending on the operator and work conditions.

Flexible Vertical and Horizontal Installation

For RVX3 series, vertical installation has become possible for greater flexibility of installation locations. By using optional parts, the unit can be installed in places such as the machine room where only vertical installation is possible.

Vertical Installation Plates



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



*Not applicable to LGH-160RVX3-E and LGH-200RVX3-E.
*Please follow the installation manual when you install RVX3 series vertically.

Horizontal installation



Vertical installation



Mitsubishi Electric Ventilator Selection Tool

Mitsubishi Electric Ventilator Selection Tool is software for selecting optimal ventilation fans. In addition to supporting the selection of a sufficient model, it also provides necessary technical documents.

1) Model selection

3) Technical document archive

1. Model selection

An appropriate model can be selected simply by inputting the necessary air volume and static pressure. Optional parts that go with the selected model will also be listed.

2. Summary sheet

Data of the selected model can be downloaded by PDF file. SFP at duty, acoustic information, and energy saving calculation can be also download (varies by model).

3. Technical document archive

Other technical data needed for ventilation system design are also available.



Spec sheet



2D CAD



3D CAD

...and more!

*This image is for illustration purpose and actual data may vary.
 *Ratings and specifications may change due to product improvements or modifications.

2) Summary sheet

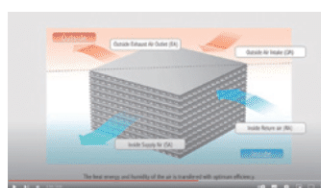
LOSSNAY YouTube Channel

LOSSNAY YouTube channel provides you videos on LOSSNAY features, structures, and more! Please check the 2D code below for more details.

■RVX3 Series features



■LOSSNAY structure



■How to select a model



LGH-RVXT SERIES



The LGH-RVXT Series delivers a large airflow of 1500-2500 CMH with a thin body of approximately 500mm that can be easily installed in the ceiling.

LGH-150/200/250RVXT-E

Thin Body Type

■ LGH-200RVX3-E



Height: 808mm

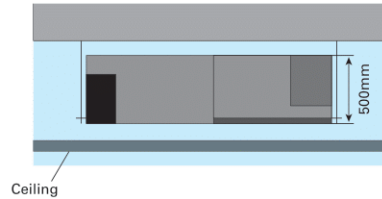
■ LGH-150/200/250RVXT-E



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



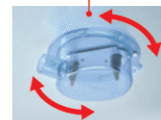
Easy Installation

Light frame

Being frame is one of the most important factors for installation. The light frame of the LGH-RVS series provides an advantage in terms of installation cost and safety.

Easy drain piping

- Only one drain piping for both supply air and exhaust air
- 360-degree drain pipe connection
- Trap piping work is NOT required owing to an internal backflow stopper



1 drain piping

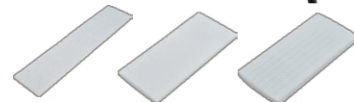
Optional Parts

The LGH-RVS series can connect with various optional parts. A CO₂ sensor is one of the best solutions for optimized airflow control. The unit operates while optimizing airflow in accordance with the level of CO₂ concentration 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.

■ CO₂ sensor



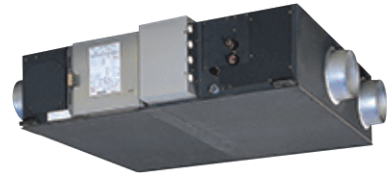
■ Filter



■ Duct Silencer



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 Small stock

These units can be used with R410A.

Outdoor units are available for the GUF-RD/RDH series (for details see Mitsubishi Electric's CITY MULTI catalog).

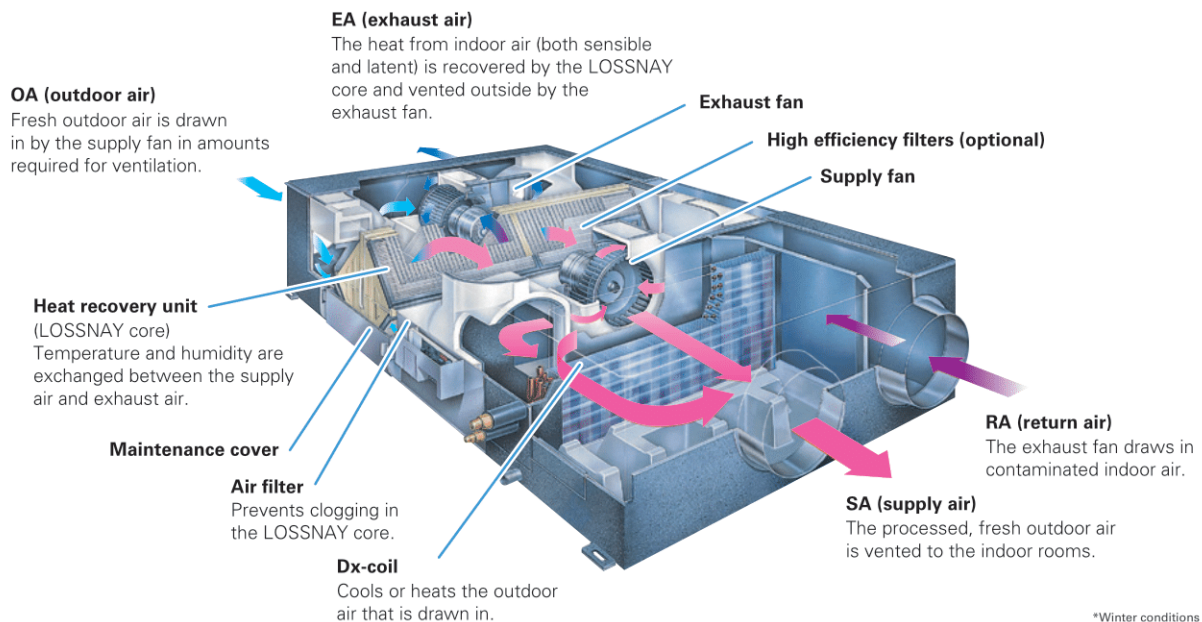
R410A Refrigerant Units

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. It delivers 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 that could cause ailments such as sick building syndrome. Inside the OA Processing Unit is the LOSSNAY core, a heat exchange unit that transfers heat efficiently, and cuts 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.

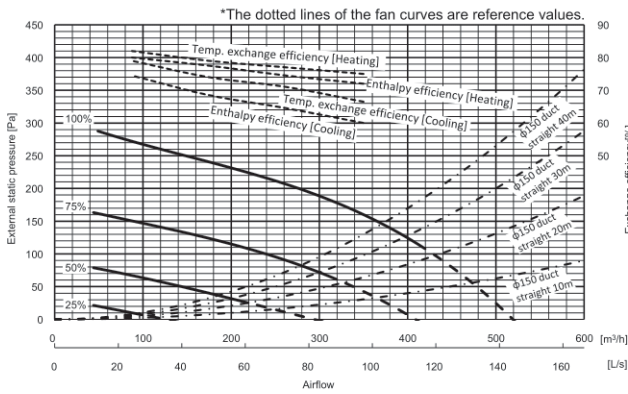
GUF-RD type



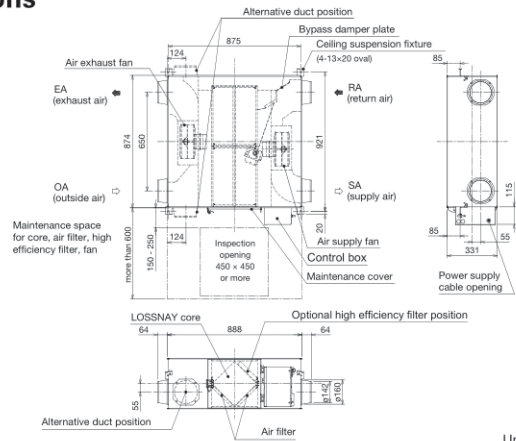
LGH-35RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition ISO 16494-1: 2022 A-weighted sound pressure level EN308: 2022/FS3	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%		
Input power (W)	120	61	29	15		
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	60.0	64.5	68.5	74.5	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)	30.5	24.5	19.0	17.0		
Exhaust air transfer ratio (%)	5.0			30		
Weight (kg)				30		

Characteristic Curves



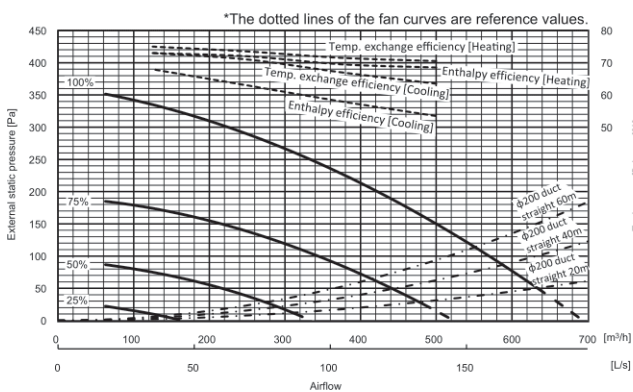
Dimensions



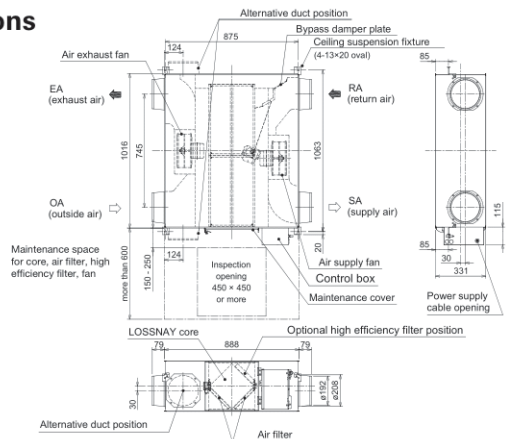
LGH-50RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition ISO 16494-1: 2022 A-weighted sound pressure level EN308: 2022/FS3	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%		
Input power (W)	185	81	34	15		
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	53.5	58.0	63.0	68.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)	35.0	27.0	21.0	17.0		
Exhaust air transfer ratio (%)	5.0			33		
Weight (kg)				33		

Characteristic Curves



Dimensions



■ For LGH-RVX3 series

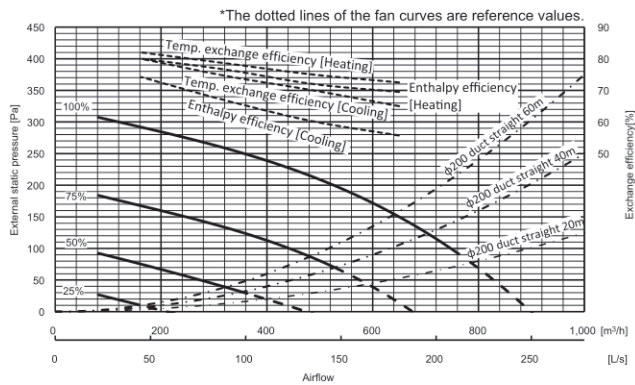
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

*Specifications may be subject to change without notice.

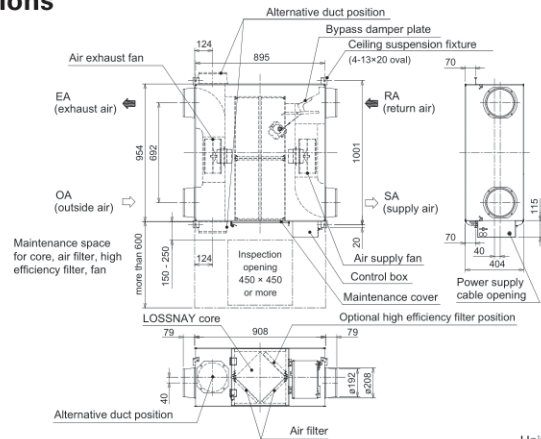
LGH-65RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%	EN13053: 2019	
Input power (W)	245	120	51	20		
Airflow	(m ³ /h)	650	488	325	163	EN308: 2022
	(L/s)	181	135	90	45	
Specific fan power [W/(L/s)]	1.36	0.89	0.56	0.44	A-weighted sound pressure level	
External static pressure (Pa)	150	85	38	10		EN308: 2022/FS3
Temperature exchange efficiency (%)	Heating	72.5	75.0	78.5	82.0	
	Cooling	65.0	70.0	74.5	80.0	
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.5	80.0	
	Cooling	55.5	60.0	66.5	74.0	
Noise (dB) <small>(Measured at 1.5m under the center of the unit in an anechoic chamber)</small>	37.5	31.5	24.0	17.5		
Exhaust air transfer ratio (%)	5.0					
Weight (kg)	41					

Characteristic Curves



Dimensions

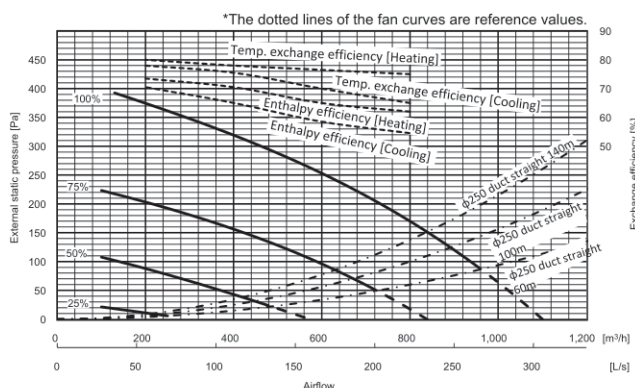


Unit: mm

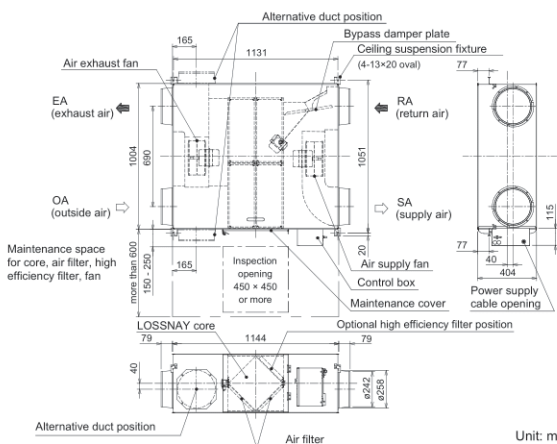
LGH-80RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%	EN13053: 2019	
Input power (W)	343	160	64	23		
Airflow	(m ³ /h)	800	600	400	200	EN308: 2022
	(L/s)	222	167	111	56	
Specific fan power [W/(L/s)]	1.54	0.96	0.58	0.41	A-weighted sound pressure level	
External static pressure (Pa)	170	96	43	11		EN308: 2022/FS3
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0	80.0	
	Cooling	65.0	70.0	75.5	78.0	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	
	Cooling	54.5	58.5	65.0	70.5	
Noise (dB) <small>(Measured at 1.5m under the center of the unit in an anechoic chamber)</small>	39.0	33.5	25.0	18.0		
Exhaust air transfer ratio (%)	5.0					
Weight (kg)	47					

Characteristic Curves



Dimensions



Unit: mm

■ For LGH-RVX3 series

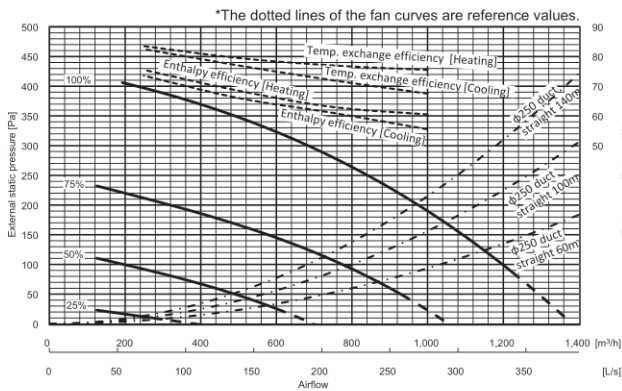
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

*Specifications may be subject to change without notice.

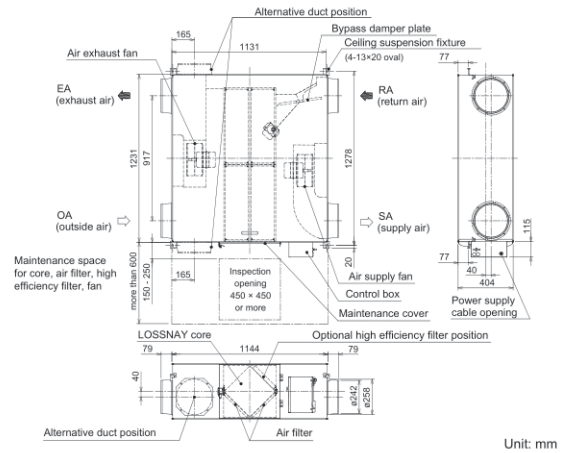
LGH-100RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%	EN13053: 2019	
Input power (W)	438	210	83	27		
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	EN308: 2022	
External static pressure (Pa)	190	107	48	12		
Temperature exchange efficiency (%)	Heating	75.5	77.0	79.5		83.5
	Cooling	67.5	72.0	77.0		82.5
Enthalpy exchange efficiency (%)	Heating	60.5	63.0	68.5	75.5	
	Cooling	55.5	61.0	66.0	73.5	
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	
Exhaust air transfer ratio (%)	5.0					EN308: 2022/FS3
Weight (kg)	53					

Characteristic Curves



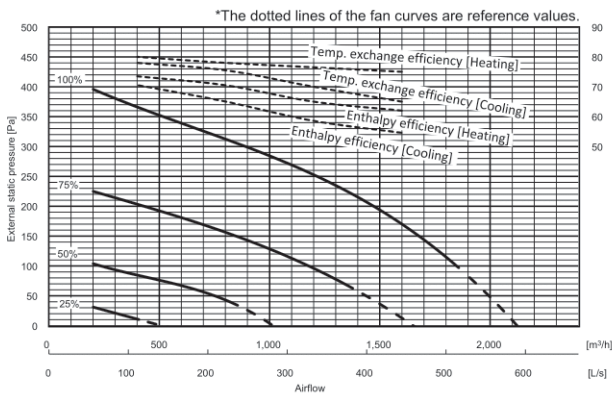
Dimensions



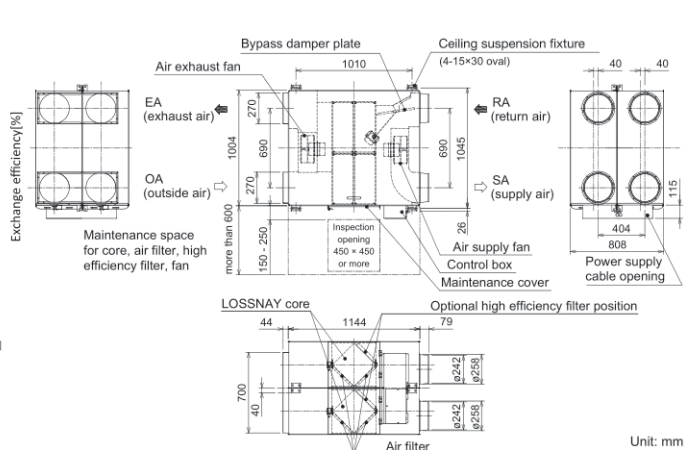
LGH-160RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition	
Fan speed	4	3	2	1		
Default airflow setting	100%	75%	50%	25%	EN13053: 2019	
Input power (W)	687	324	128	45		
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	EN308: 2022	
External static pressure (Pa)	170	96	43	11		
Temperature exchange efficiency (%)	Heating	75.0	76.5	78.0		80.0
	Cooling	65.0	70.0	75.5		78.0
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	
	Cooling	54.5	58.5	65.0	70.5	
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	
Exhaust air transfer ratio (%)	5.0					EN308: 2022/FS3
Weight (kg)	96					

Characteristic Curves



Dimensions



■ For LGH-RVX3 series

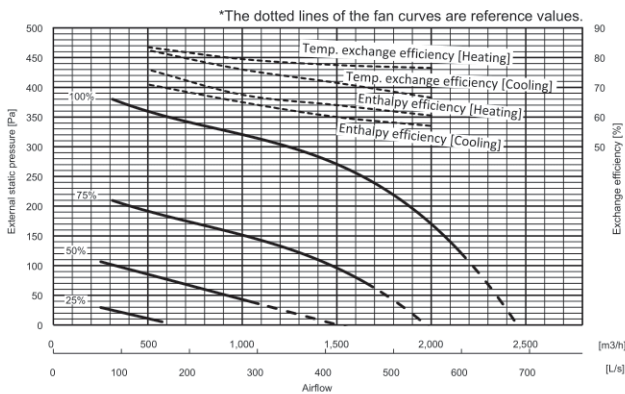
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.

*Specifications may be subject to change without notice.

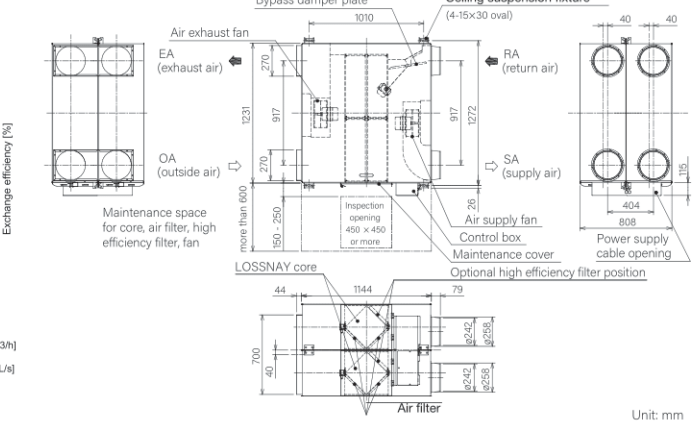
LGH-200RVX3-E

Electrical power supply	220-240V/50Hz, 220V/60Hz				Test condition
Fan speed	4	3	2	1	
Default airflow setting	100%	75%	50%	25%	
Input power (W)	855	416	163	57	
Airflow	(m ³ /h)	2000	1500	1000	EN13053: 2019
	(L/s)	556	417	278	
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
	Cooling	66.5	71.5	76.0	82.5
Enthalpy exchange efficiency (%)	Heating	60.5	64.0	67.5	76.0
	Cooling	57.0	60.0	65.0	71.0
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.5	36.0	27.5	18.0
Exhaust air transfer ratio (%)		5.0			EN308: 2022
Weight (kg)		108			EN308: 2022/FS3

Characteristic Curves



Dimensions



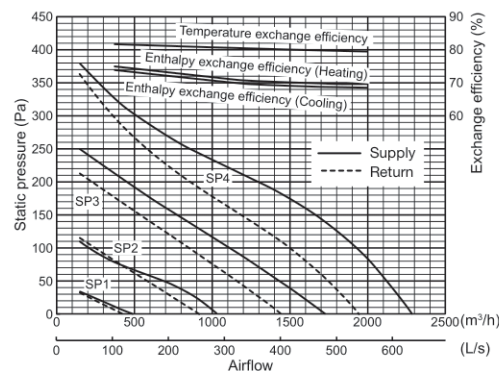
LGH-RVXT SERIES

Specifications

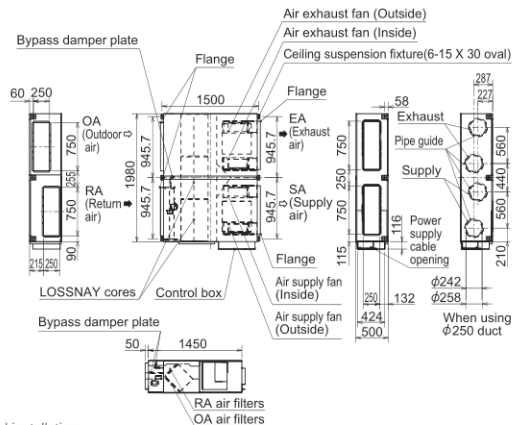
LGH-150RVXT-E

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



Dimensions



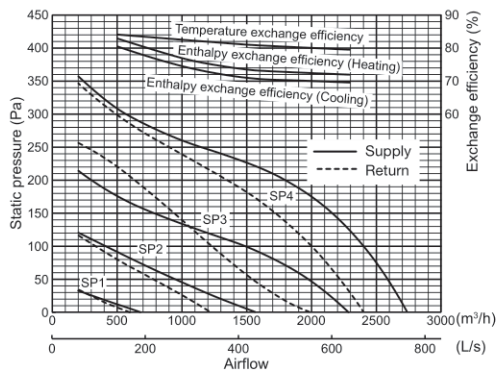
- For LGH-RVX3 series
- * The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.
- For LGH-RVXT series
- * The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
- * Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
- * Specifications may be subject to change without notice.

Unit: mm

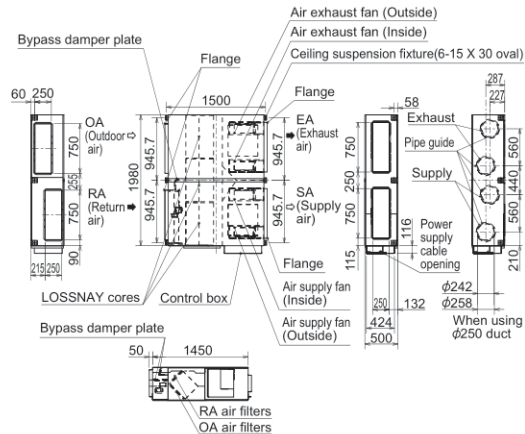
LGH-200RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
		Heat recovery mode				Bypass mode			
Ventilation 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



Dimensions

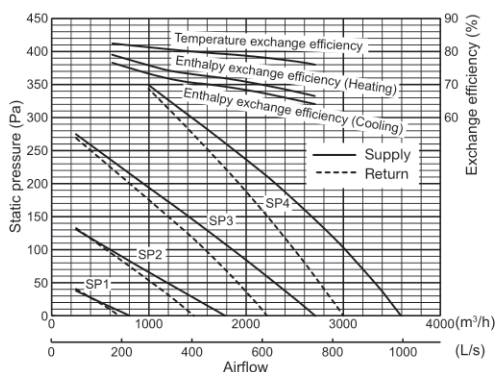


Unit: mm

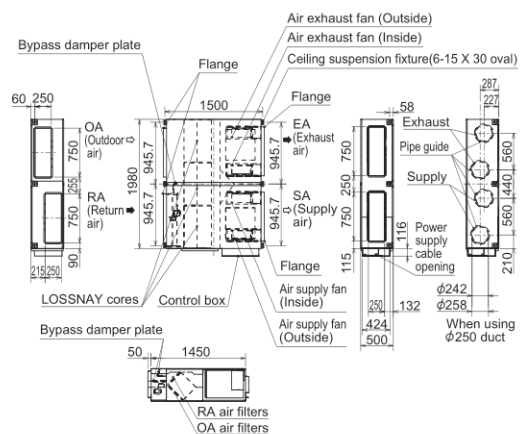
LGH-250RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
		Heat recovery mode				Bypass mode			
Ventilation 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



Dimensions



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.

* Specifications may be subject to change without notice.

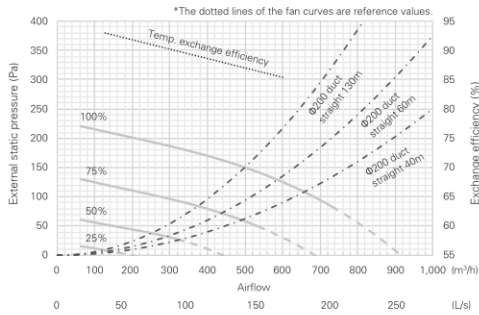
LGH-RVS SERIES

Specifications

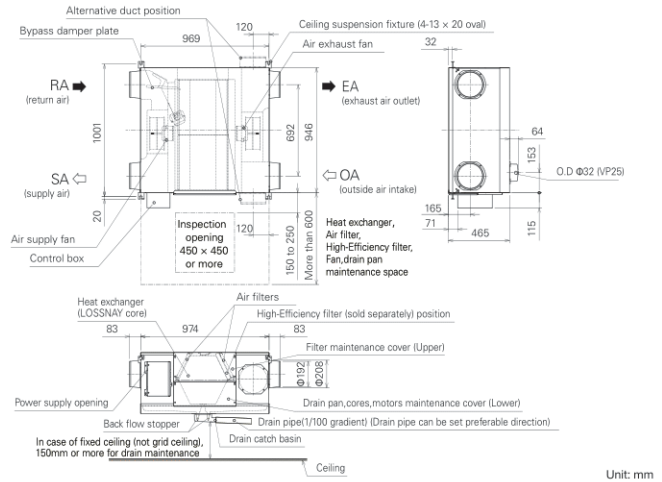
LGH-50RVS-E

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		
Airflow	(m ³ /h)	500	375	250	125	ISO 16494 Temp. exchange efficiency is winter condition
	(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 Tracer gas method @100% airflow (EN308)	
Exhaust air transfer ratio (%)	5					

Characteristic Curves



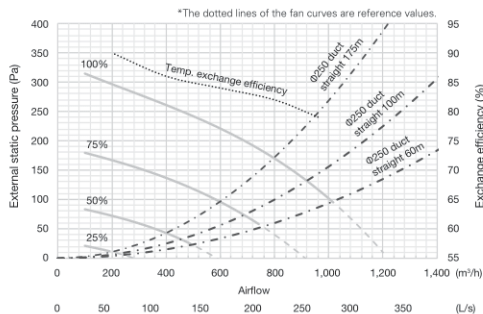
Dimensions



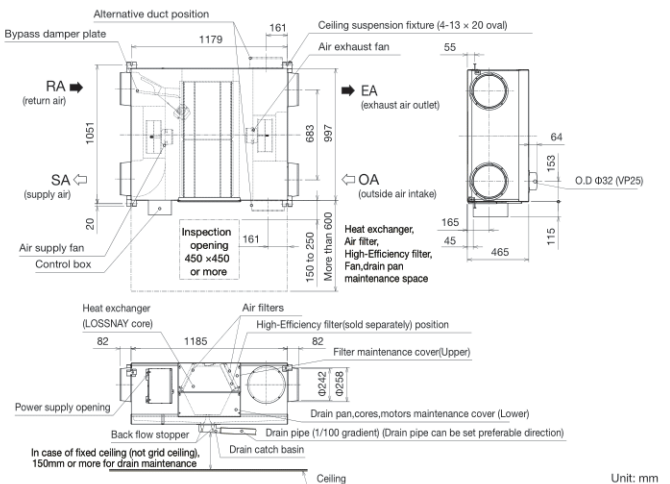
LGH-80RVS-E

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		
Airflow	(m ³ /h)	800	600	400	200	ISO 16494 Temp. exchange efficiency is winter condition
	(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 Tracer gas method @100% airflow (EN308)	
Exhaust air transfer ratio (%)	5					

Characteristic Curves



Dimensions

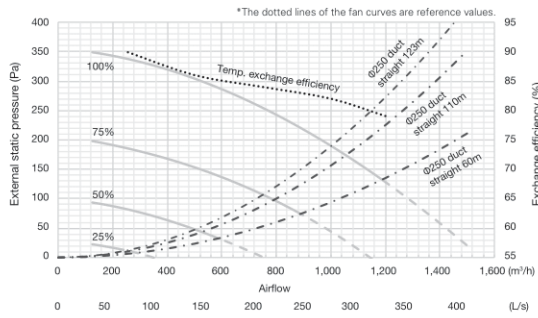


■The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494.
When the indoor humidity is low and condensation in the heat exchanger 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.
■Specifications may be subject to change without notice.

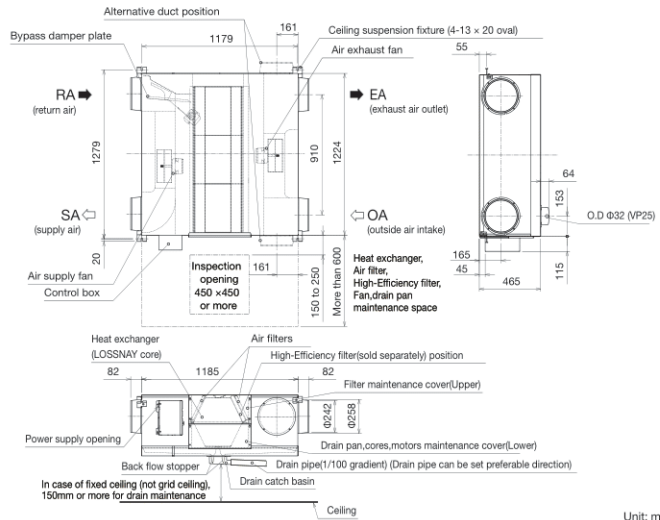
LGH-100RVS-E

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		
Airflow	(m ³ /h)	1000	750	500	250	ISO 16494 Temp. exchange efficiency is winter condition
	(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 (EN308)	

Characteristic Curves



Dimensions



■ 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.

■ Specifications may be subject to change without notice.

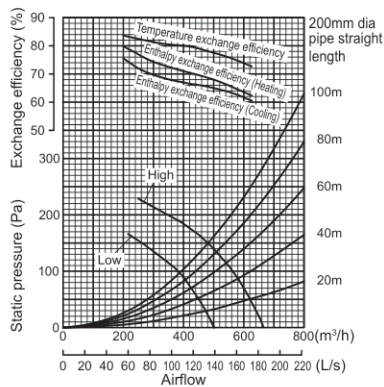
GUF SERIES

Specifications

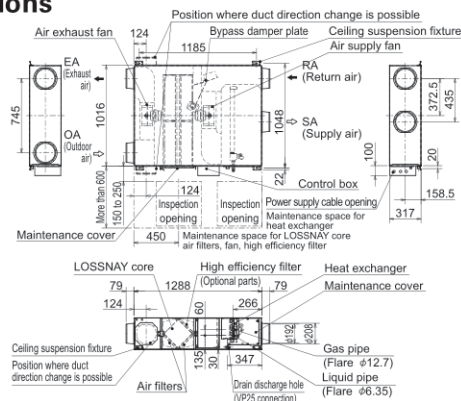
GUF-50RD4

Electrical power supply		220-240V/50Hz			
		Heat recovery mode		Bypass mode	
Ventilation 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



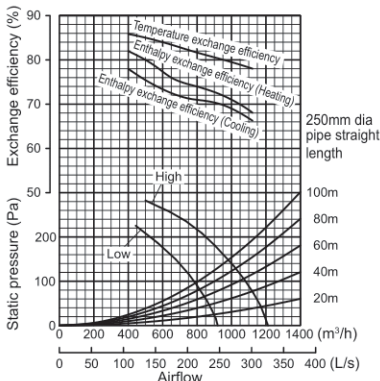
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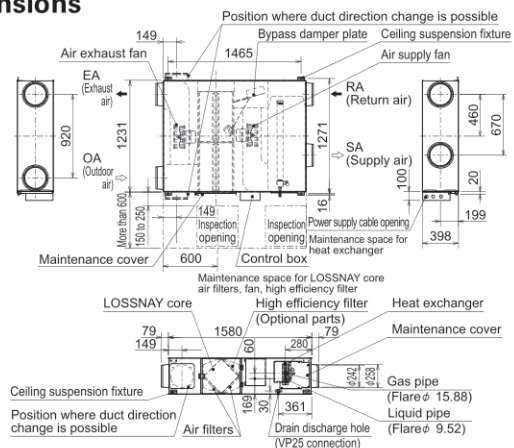
GUF-100RD4

Electrical power supply		220-240V/50Hz			
		Heat recovery mode		Bypass mode	
Ventilation 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



Dimensions



■ 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 unit capacity.

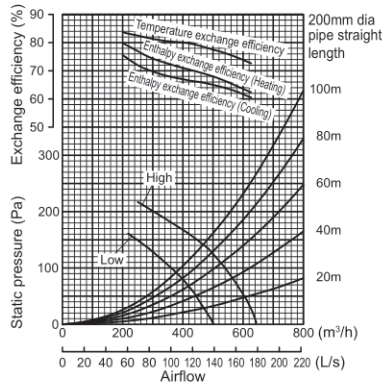
*Specifications may be subject to change without notice.

Small stock

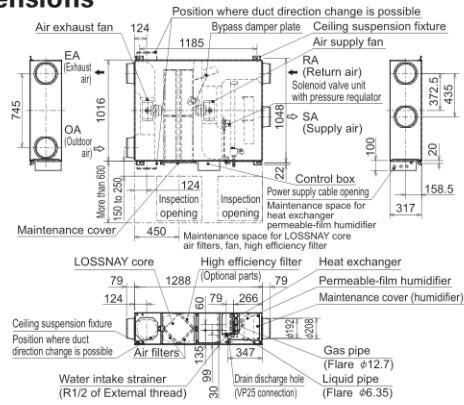
GUF-50RDH4

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
	(L/s)	139	111	139
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 ⁴ Pa Maximum pressure : 49.0 × 10 ⁴ Pa		
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



Dimensions



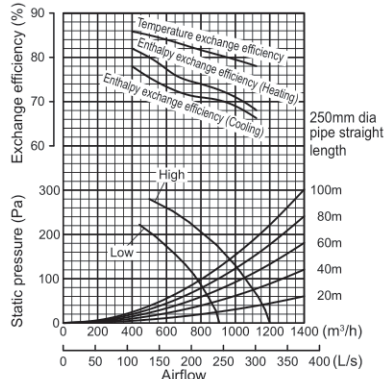
Unit: mm

Small stock

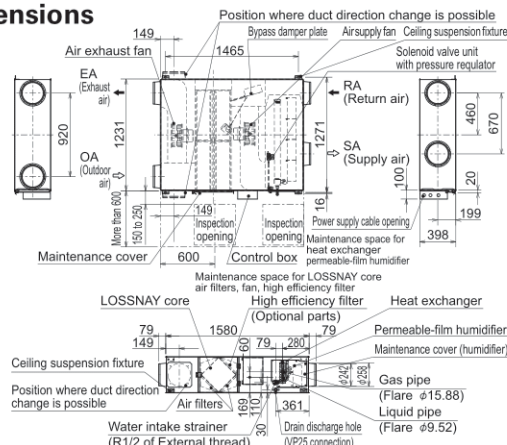
GUF-100RDH4

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
	(L/s)	278	222	278
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 ⁴ Pa Maximum pressure : 49.0 × 10 ⁴ Pa		
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



Dimensions



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.

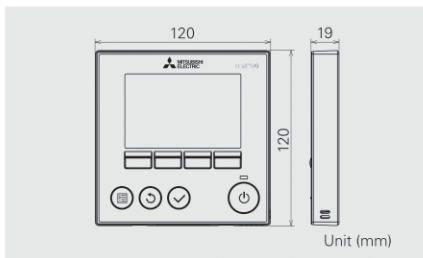
* Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

* 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 unit capacity.

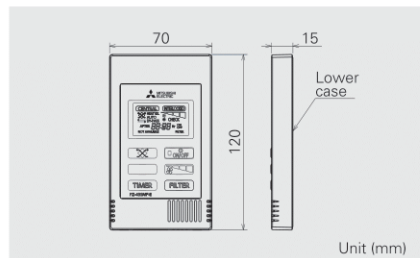
* Specifications may be subject to change without notice.

CONTROL TECHNOLOGIES

PZ-62DR-EA/EB



PZ-43SMF-E



Language	-EA	-EB
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
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 between 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
Flexible airflow setting	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 CO₂ sensor. Upper and lower limits may differ.

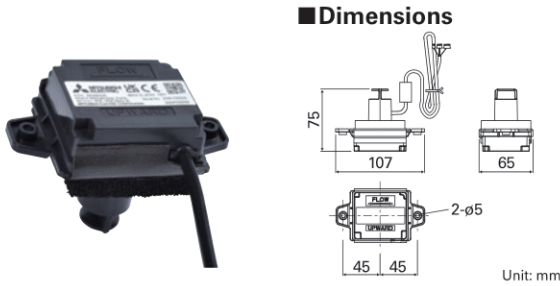
CO₂ Sensors

A CO₂ Sensor connected directly to a LOSSNAY RVX3 and RVS unit optimizes the fan speed according to the detected CO₂ level.

Duct-mounted type

PZ-70CSD-E

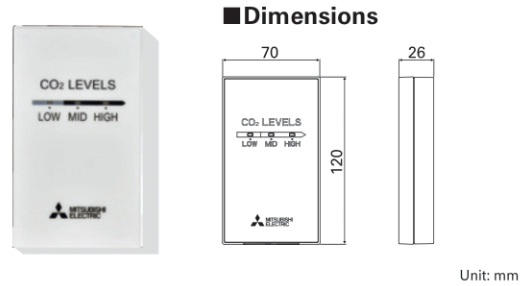
Equipped to the duct with all wiring hidden in the ceiling.



Wall-mounted type

PZ-70CSW-E

Installed on the wall. CO₂ Level can be monitored in 3 levels.



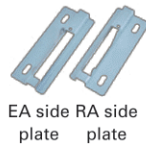
Vertical Installation Plate

PZ-1VS-E, PZ-2VS-E

Parts needed to install RVX3 vertically.

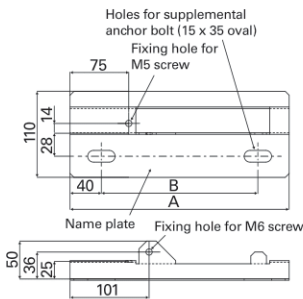
■ Dimensions

	A	B	Weight (kg)	Applicable model
PZ-1VS-E	280	200	1.2	LGH15 to 50RVX3-E
PZ-2VS-E	380	300	1.6	LGH65 to 100RVX3-E

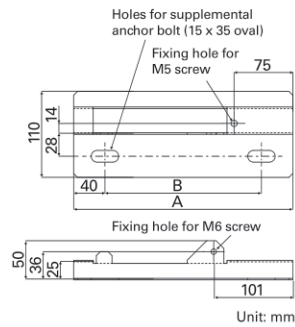


EA side plate RA side plate

EA side plate



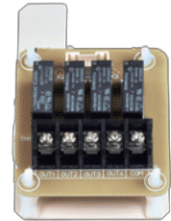
RA side plate



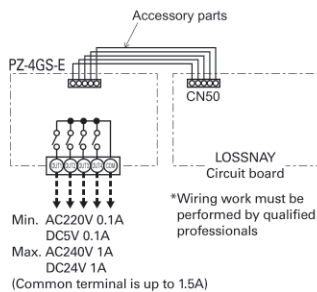
Signal Output Terminal

PZ-4GS-E

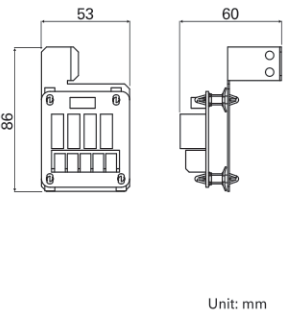
PCB of RVX3 and RVS has only 1 output terminal. By using PZ-4GS-E, it allows to add 4 more output terminals can be added to RVX3 and RVS.



■ Wiring diagram



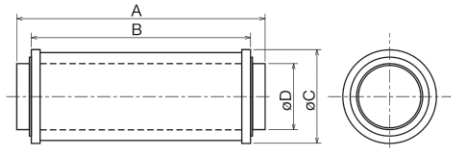
■ Dimensions



Duct Silencer

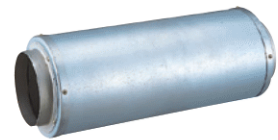
The duct silencer connects to the LOSSNAY unit to reduce airflow noise. Four sizes are available to cover a wide range of duct sizes.

■ 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








■ 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


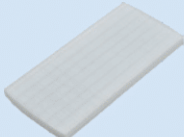
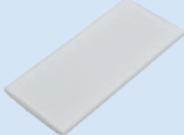
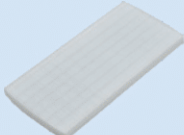
- Figures on the chart above are based on the comparison with a general steel duct of the same length.
- The silencer is placed on just before the outlet during the measurement.
- When the airflow rate differs, the insertion loss is also different from the chart above.
- Figures on the chart above are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

Lineup and Classification

LOSSNAY			Filter				
Model	Filter		Name	Model	Material	Classification	
	Standard Setting	Optional Setting				ISO 16890: 2016	EN 779: 2012
	●		Replacement filter (Coarse 60% filter)	PZ-**RF3-E	Non-woven fabric	Coarse 60%	–
		●	Advanced high-efficiency filter (ePM1 75% filter)	PZ-**RFP3-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	–
		●*1	High-efficiency filter (M6 filter)	PZ-**RFM3-E	Synthetic fiber	–	M6
		●*1	Advanced high-efficiency filter (F8 filter)	PZ-**RFH3-E	Synthetic fiber	–	F8
	●		Replacement filter (Coarse 50% filter)	PZ-**RTF-E	Non-woven fabric	Coarse 50%	G3
		●	Advanced high-efficiency filter (M6 filter)	PZ-M6RTFM-E	Non-woven fabric	ePM10 75%	M6
		●	Advanced high-efficiency filter (F8 filter)	PZ-F8RTFM-E	Non-woven fabric	ePM1 65%	F8
		●*1	Advanced high-efficiency filter (M6 filter)	PZ-M6TDF-E	Non-woven fabric	–	M6
		●*1	Advanced high-efficiency filter (F8 filter)	PZ-F8TDF-E	Non-woven fabric	–	F8
	●		Replacement filter (Coarse 50% filter)	PZ-S**RFE	Non-woven fabric	Coarse 50%	G3
		●	High-efficiency filter (ePM10 80% filter)	PZ-S**RFM-E	Synthetic fiber	ePM10 80%	M6
		●	Advanced high-efficiency filter (ePM1 65% filter)	PZ-S**RFH-E	Synthetic fiber	ePM1 65%, ePM2.5 75%, ePM10 90%	F8
	●		Replacement filter (Coarse 35% filter)	PZ-**RF8-E	Non-woven fabric	Coarse 35%	G3
		●	High-efficiency filter (ePM10 75%)	PZ-**RFM-E	Noncombustible fiber	ePM10 75%	–
		●	Advanced high-efficiency filter (ePM1 75%)	PZ-**RFP2-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	–

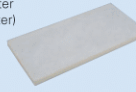
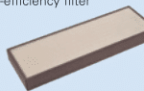
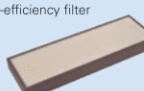


*1: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVX3 Series

Image	Filter					Pieces in one package	Package number for replacement	Installation location				
	Model	Applicable model	Dimension (mm)					Numbers of filters				
			L	W	H			OA	RA	SA		
	PZ-15RF3-E	LGH-15RVX3-E	549	125	20	2	1	2	1	1	–	
	PZ-25RF3-E	LGH-25RVX3-E	654	151	15	2	1	2	1	1	–	
	PZ-35RF3-E	LGH-35RVX3-E	784	178	15	2	1	2	1	1	–	
	PZ-50RF3-E	LGH-50RVX3-E	926	178	15	2	1	2	1	1	–	
	PZ-65RF3-E	LGH-65RVX3-E	852	213	15	2	1	2	1	1	–	
	PZ-80RF3-E	LGH-80RVX3-E	LGH-160RVX3-E	890	238	15	2	1	2	1	1	–
		2						4	2	2	–	
	PZ-100RF3-E	LGH-100RVX3-E	LGH-200RVX3-E	1117	238	15	2	1	2	1	1	–
2		4						2	2	–		
1		2	1					1	–			
2		4	2					2	–			
1		2	1					1	–			
2		4	2					2	–			
	PZ-15RFP3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	–	–	1	
	PZ-25RFP3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	–	–	2	
	PZ-35RFP3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	–	–	2	
	PZ-50RFP3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	–	–	2	
	PZ-65RFP3-E	LGH-65RVX3-E	LGH-80RVX3-E	423	197.5	25	2	1	2	–	–	2
		2						4	–	–	4	
	PZ-80RFP3-E	LGH-80RVX3-E	LGH-160RVX3-E	442	215.5	25	2	1	2	–	–	2
		2						4	–	–	4	
PZ-100RFP3-E	LGH-100RVX3-E	LGH-200RVX3-E	554	215.5	25	2	1	2	–	–	2	
	2						4	–	–	4		
	PZ-15RFM3-E	LGH-15RVX3-E	542	125	13	1	1	1	1	–	–	
	PZ-25RFM3-E	LGH-25RVX3-E	322	151	13	2	1	2	2	–	–	
	PZ-35RFM3-E	LGH-35RVX3-E	390	178	13	2	1	2	2	–	–	
	PZ-50RFM3-E	LGH-50RVX3-E	461	178	13	2	1	2	2	–	–	
	PZ-65RFM3-E	LGH-65RVX3-E	LGH-80RVX3-E	423	213	13	2	1	2	–	–	–
		2						4	–	–	–	
	PZ-80RFM3-E	LGH-80RVX3-E	LGH-160RVX3-E	442	238	13	2	1	2	–	–	–
		2						4	–	–	–	
	PZ-100RFM3-E	LGH-100RVX3-E	LGH-200RVX3-E	554	238	13	2	1	2	–	–	–
		2						4	–	–	–	
		PZ-15RFH3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	–	–	1
		PZ-25RFH3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	–	–	2
PZ-35RFH3-E		LGH-35RVX3-E	390	158.5	25	2	1	2	–	–	2	
PZ-50RFH3-E		LGH-50RVX3-E	461	158.5	25	2	1	2	–	–	2	
PZ-65RFH3-E		LGH-65RVX3-E	LGH-80RVX3-E	423	197.5	25	2	1	2	–	–	2
		2						4	–	–	4	
PZ-80RFH3-E		LGH-80RVX3-E	LGH-160RVX3-E	442	215.5	25	2	1	2	–	–	2
		2						4	–	–	4	
PZ-100RFH3-E	LGH-100RVX3-E	LGH-200RVX3-E	554	215.5	25	2	1	2	–	–	2	
	2						4	–	–	4		


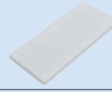
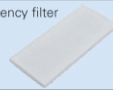
*2: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVXT Series

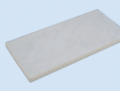
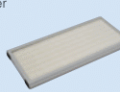
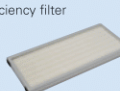
Image	Filter					Pieces in one package	Package number for replacement	Installation location				
	Model	Applicable model	Dimension (mm)					Numbers of filters				
			L	W	H			OA	RA	SA		
 Replacement filter (Coarse 50% filter)	PZ-150RTF-E	LGH-150RVXT-E	655	290	-	2	1	4	2	-	-	
			655	250	-	2			-	2	-	
	PZ-250RTF-E	LGH-200RVXT-E, LGH-250RVXT-E	985	290	-	2		1	4	2	-	-
			985	250	-	2				-	2	-
 Advanced high-efficiency filter (M6 filter)	PZ-M6RTFM-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	65	3	1		3	-	-	3
			659	223	65	3				-	-	3
 Advanced high-efficiency filter (F8 filter)	PZ-F8RTFM-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	65	3		1	3	-	-	3
			659	223	65	3				-	-	3
 Advanced high-efficiency filter*3 (M6 filter)	PZ-M6TDF-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	27	3	1		3	-	-	3
			659	223	27	3				-	-	3
 Advanced high-efficiency filter*3 (F8 filter)	PZ-F8TDF-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	27	3		1	3	-	-	3
			659	223	27	3				-	-	3

*3: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVS Series

Image	Filter					Pieces in one package	Package number for replacement	Installation location			
	Model	Applicable model	Dimension (mm)					Numbers of filters			
			L	W	H			OA	RA	SA	
 Replacement filter (Coarse 50% filter)	PZ-S50RF-E	LGH-50RVS-E	845	195	15	2	1	2	1	1	-
	PZ-S80RF-E	LGH-80RVS-E	885	195	15	2			1	1	-
	PZ-S100RF-E	LGH-100RVS-E	1112	195	15	2			1	1	-
 High-efficiency filter (ePM10 80% filter)	PZ-S50RFM-E	LGH-50RVS-E	422	195	15	2	1	2	2	-	-
	PZ-S80RFM-E	LGH-80RVS-E	442	195	15	2			2	-	-
	PZ-S100RFM-E	LGH-100RVS-E	556	195	15	2			2	-	-
 Advanced high-efficiency filter (ePM1 65% filter)	PZ-S50RFH-E	LGH-50RVS-E	412	203	25	2	1	2	2	-	-
	PZ-S80RFH-E	LGH-80RVS-E	432	203	25	2			2	-	-
	PZ-S100RFH-E	LGH-100RVS-E	546	203	25	2			2	-	-

For GUF Series

Image	Filter					Pieces in one package	Package number for replacement	Installation location			
	Model	Applicable model	Dimension (mm)					Numbers of filters			
			L	W	H			OA	RA	SA	
 Replacement filter (Coarse 35% filter)	PZ-50RF8-E	GUF50RD4 GUF50RDH4	470	183	15	4	1	4	2	2	-
	PZ-100RF8-E	GUF100RD4 GUF100RDH4	565	243	15	4			2	2	-
 High-efficiency filter (ePM10 75% filter)	PZ-50RFM-E	GUF50RD4 GUF50RDH4	464	175	25	2	1	2	-	-	2
	PZ-100RFM-E	GUF100RD4 GUF100RDH4	559	236	25	2			-	-	2
 Advanced high-efficiency filter (ePM1 75% filter)	PZ-50FRP2-E	GUF50RD4 GUF50RDH4	464	175	25	2	1	2	-	-	2
	PZ-100FRP2-E	GUF100RD4 GUF100RDH4	559	236	25	2			-	-	2

*Specifications may be subject to change without notice.

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 NO_x and PM_{2.5} and improves indoor air quality. They can be incorporated inside the unit without any filter box, which saves space.

*NO_x: Nitrogen oxide, which includes nitric oxide (NO) and nitrogen dioxide (NO₂).
*PM_{2.5}: 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

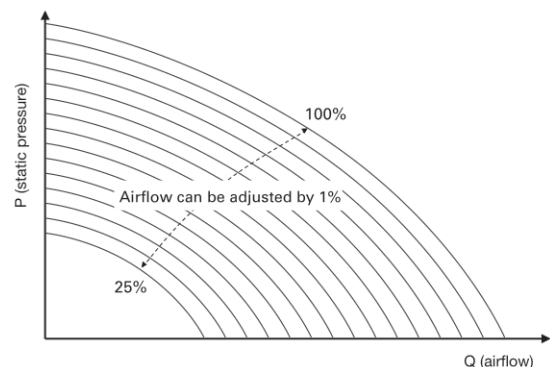
Under regulation (EU) No. 1254/2014, the VL-CZPVU series has the highest energy-saving performance in its class (ErP A⁺). It saves heating and cooling costs by minimizing the energy loss that occurs during ventilation.

ErP A⁺

A⁺

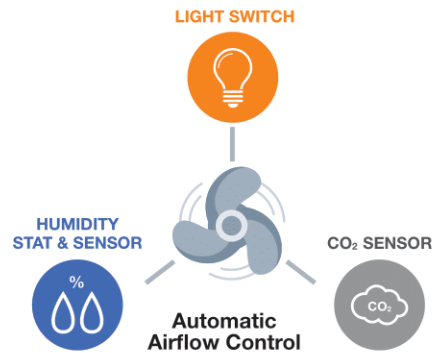
Variable Airflow Control

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.



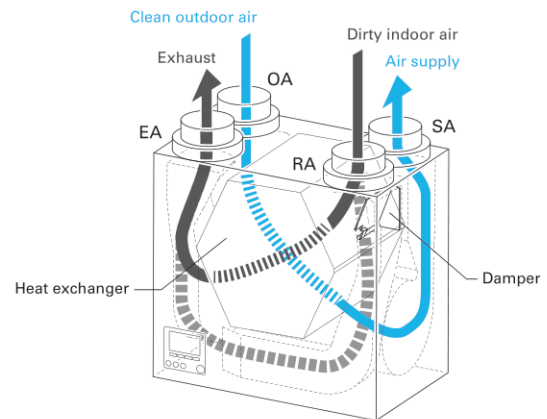
External Airflow Control

The airflow from the LOSSNAY unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO₂ sensor (field supply). The LOSSNAY unit is also connected to the light switch which can boost operation mode (input 220-240V). These devices are connected directly to the LOSSNAY unit, allowing automatic fan speed control according to bathroom occupation, CO₂ 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

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

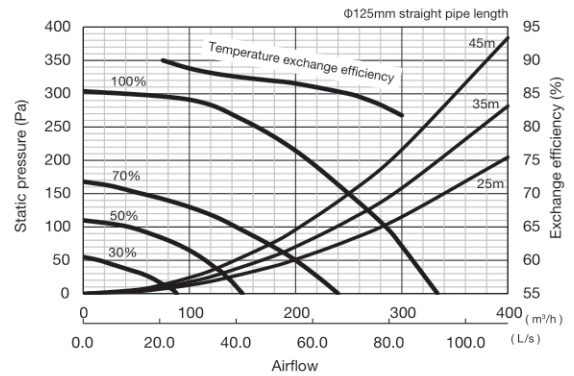
VL-250CZPVU-R/L-E

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

- The above values are at factory default.
- The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
- The sound pressure level at 3m is spherical.
- Temperature exchange efficiency (%) is based on winter condition.
- Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
- Specifications may be subject to change without notice.

Characteristic Curves

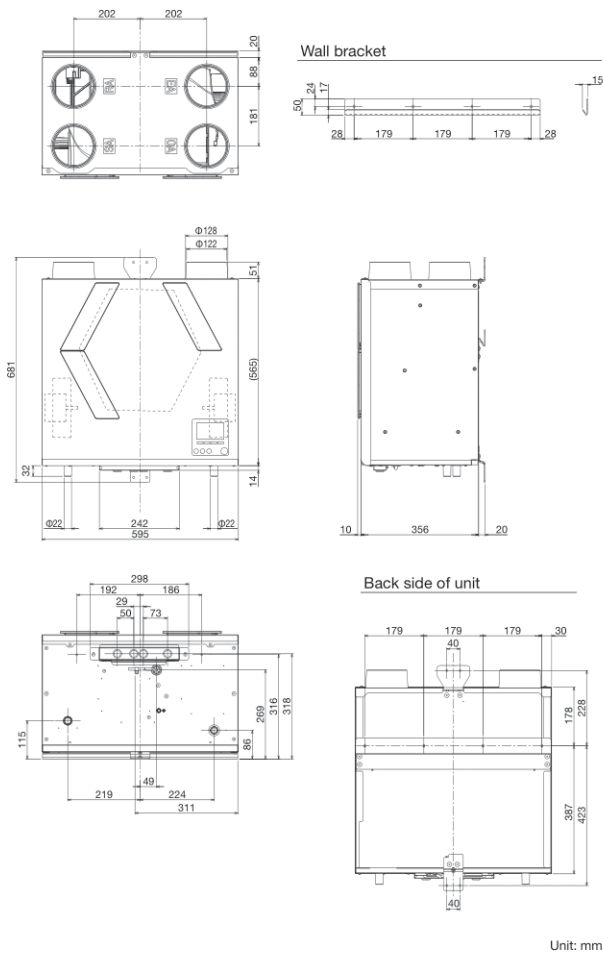


■ Attention

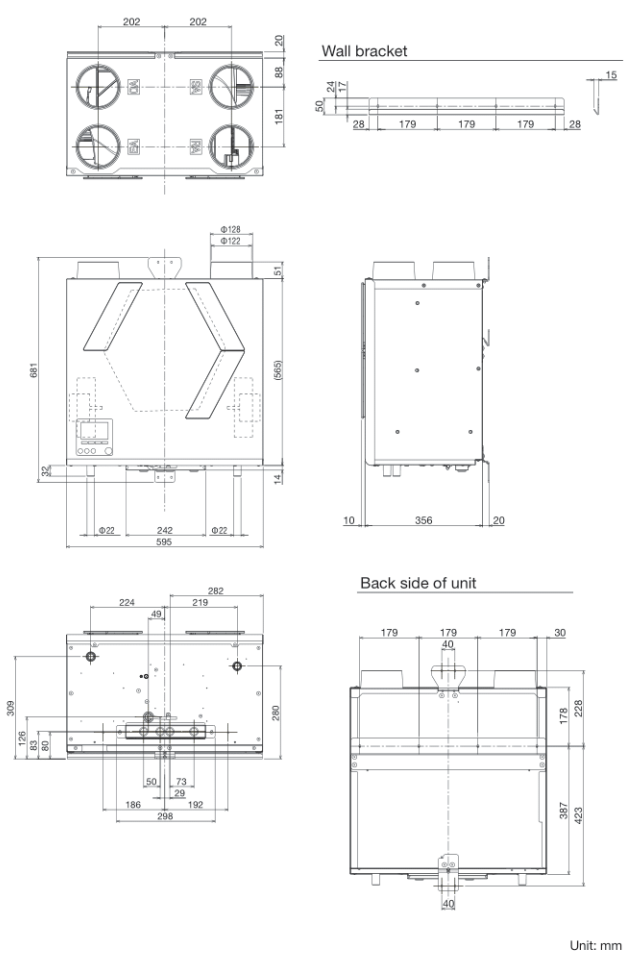
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-250CZPVU-R-E



VL-250CZPVU-L-E



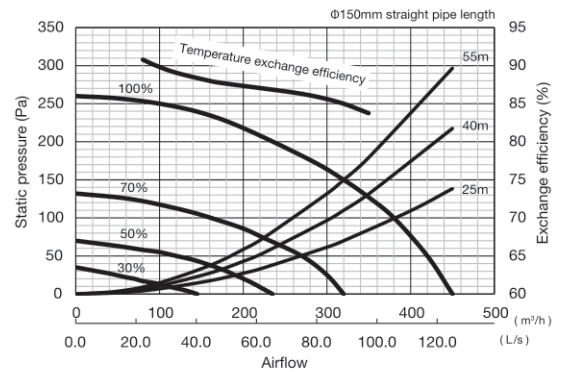
VL-350CZPVU-R/L-E

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.
6. Specifications may be subject to change without notice.

Characteristic Curves

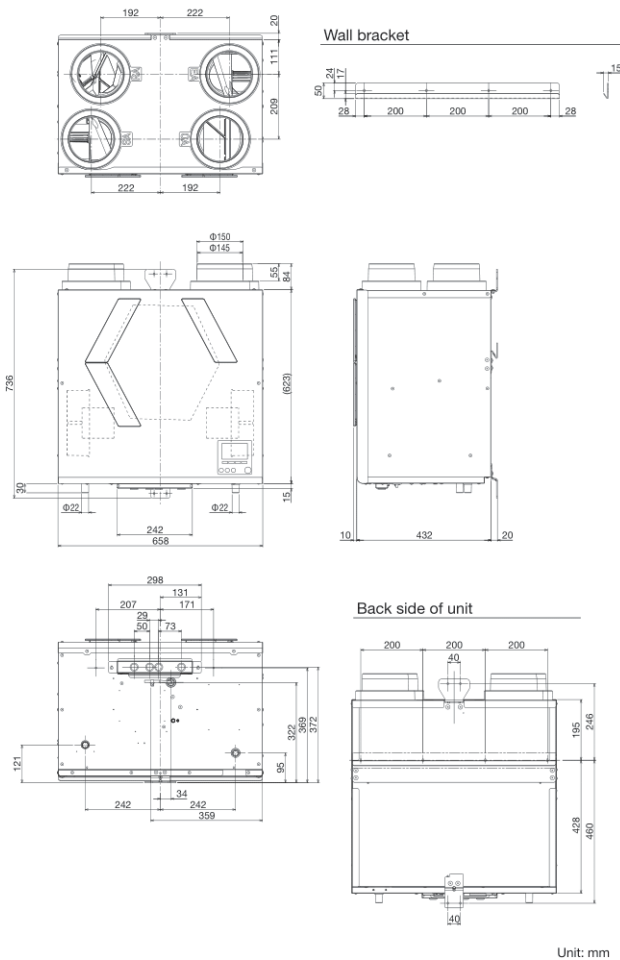


Attention

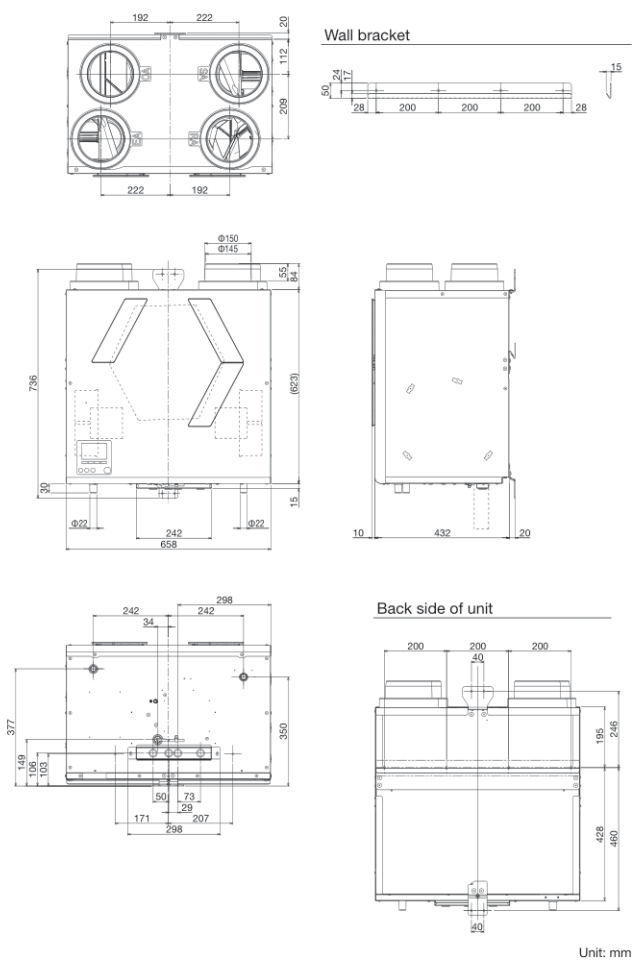
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-350CZPVU-R-E



VL-350CZPVU-L-E



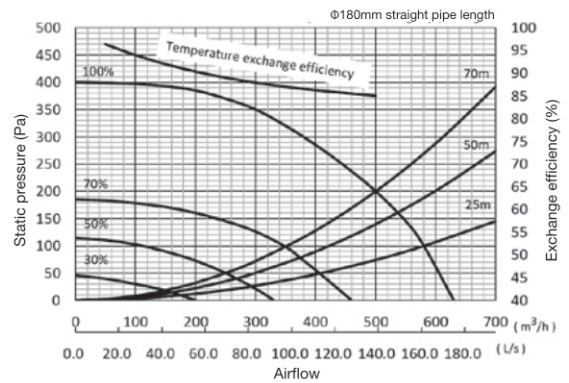
VL-500CZPVU-R/L-E

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.
6. Specifications may be subject to change without notice.

Characteristic Curves

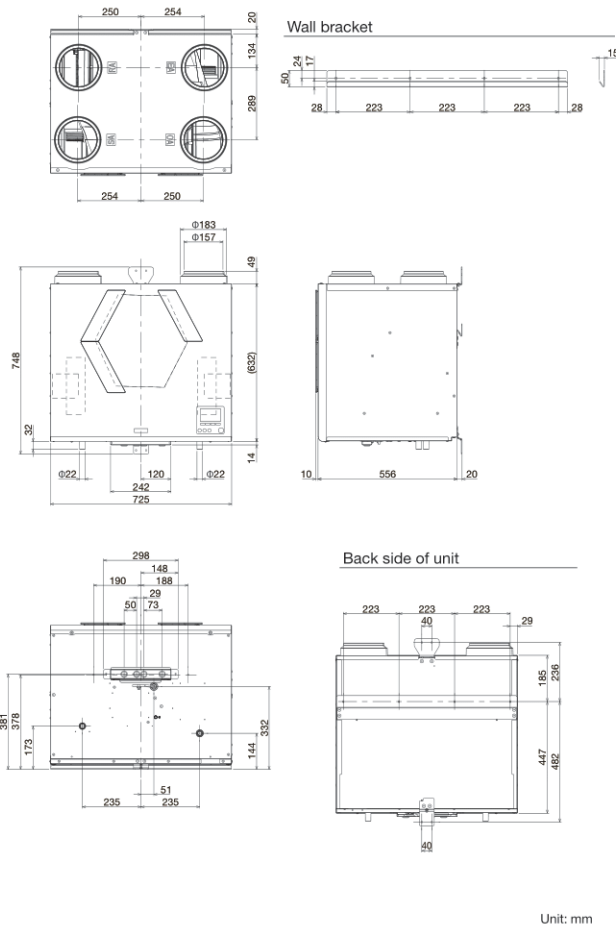


Attention

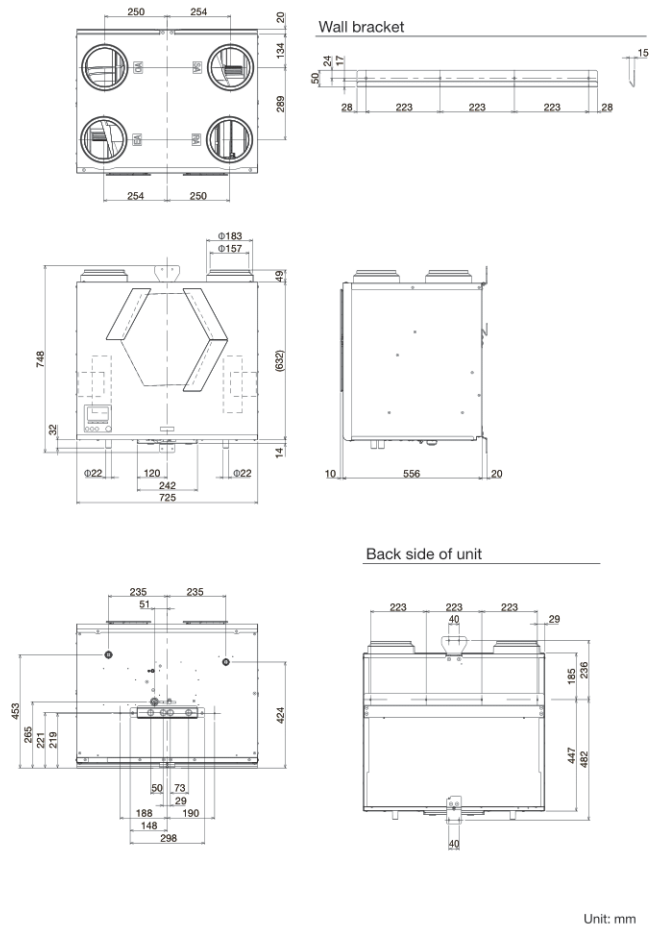
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions


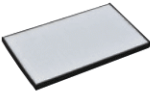
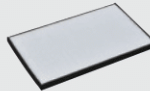
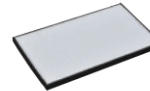
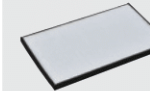
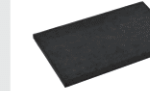
VL-500CZPVU-R-E



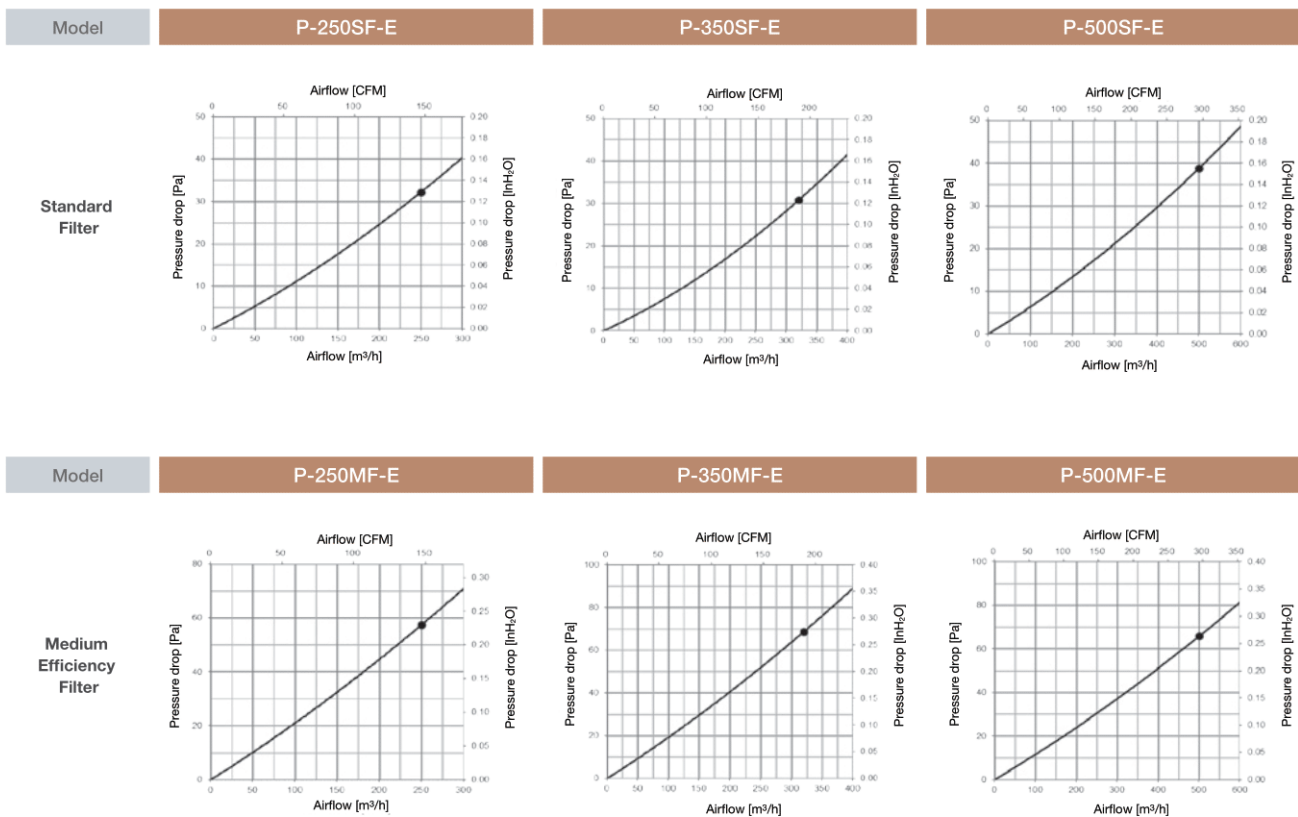
VL-500CZPVU-L-E



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	ePM ₁ 55%	NO ₂ 90%
	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM ₁₀ 80%	ePM _{2.5} 50%		

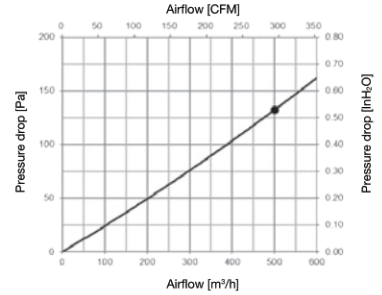
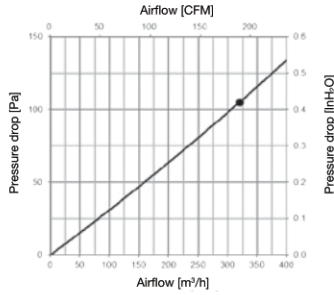
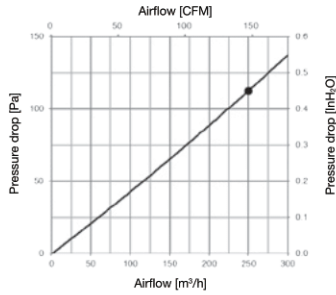
Pressure loss characteristics



Pressure loss characteristics

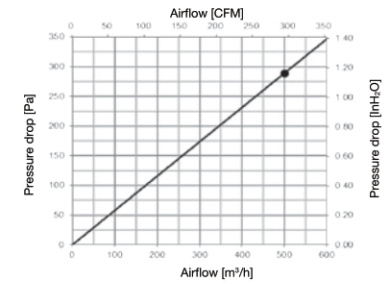
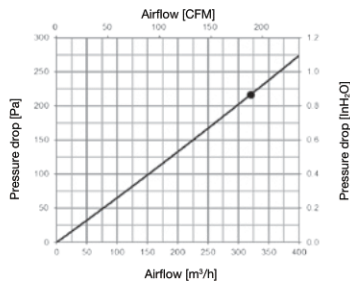
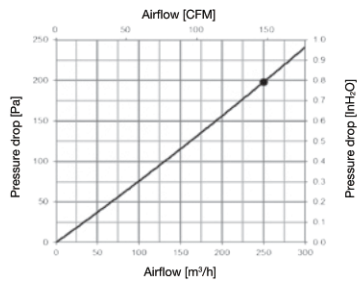
Model	P-250PF-E	P-350PF-E	P-500PF-E
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Advanced Efficiency Filter



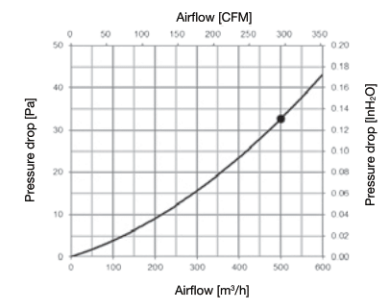
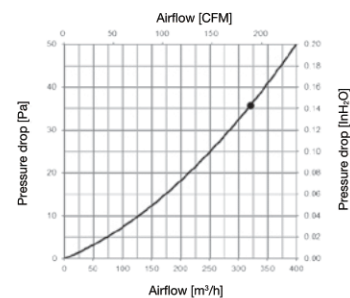
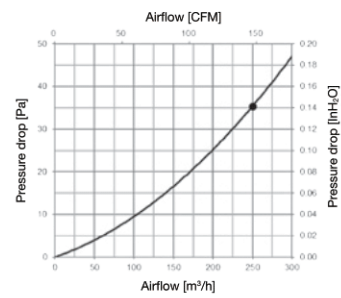
Model	P-250PFH-E	P-350PFH-E	P-500PFH-E
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Advanced High Efficiency Filter



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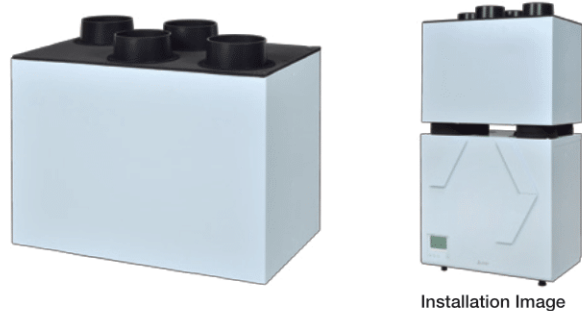
NOx Filter



Silencer Box

P-250/350/500SB-E

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



Model P-250SB-E

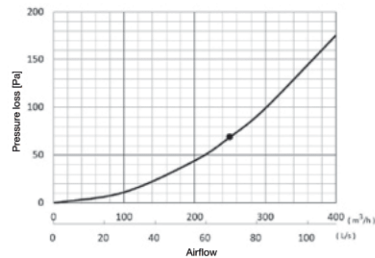
Attenuation of sound power level for center frequency

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
175	74	Outlet (SA/EA)	9	7	11	19	29	28	21	13

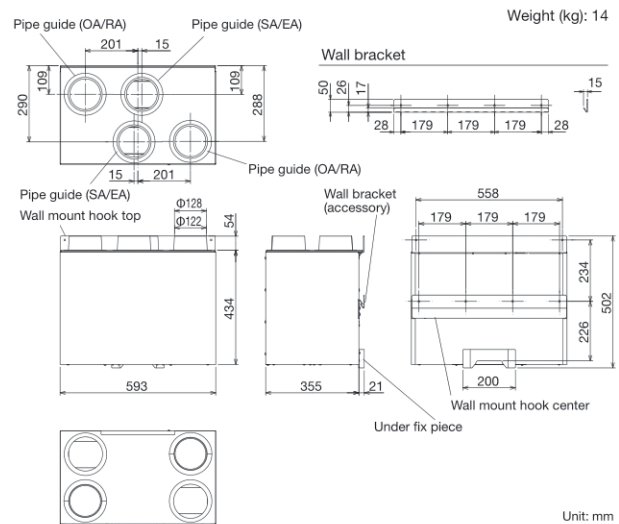
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

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



Model P-350SB-E

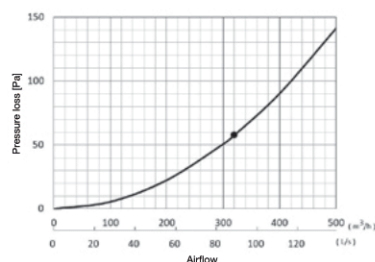
Attenuation of sound power level for center frequency

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
224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12

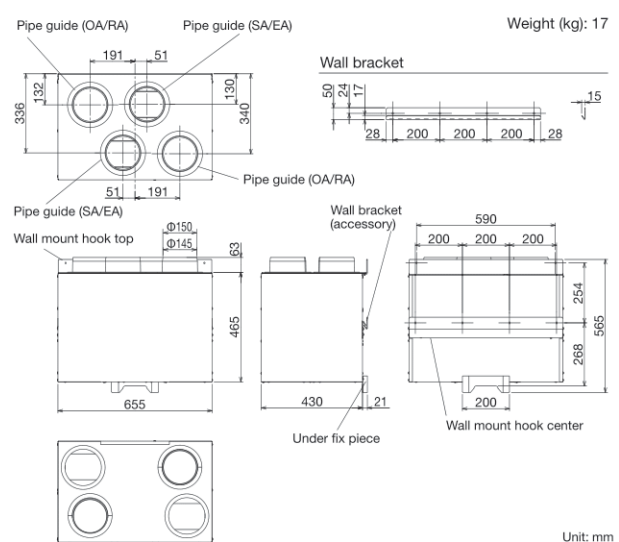
- Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When airflow differs, attenuation may also differ from the chart above.

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



Model

P-500SB-E

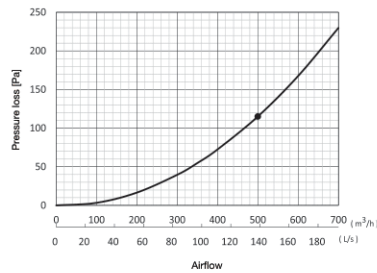
■ Attenuation of sound power level for center frequency

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

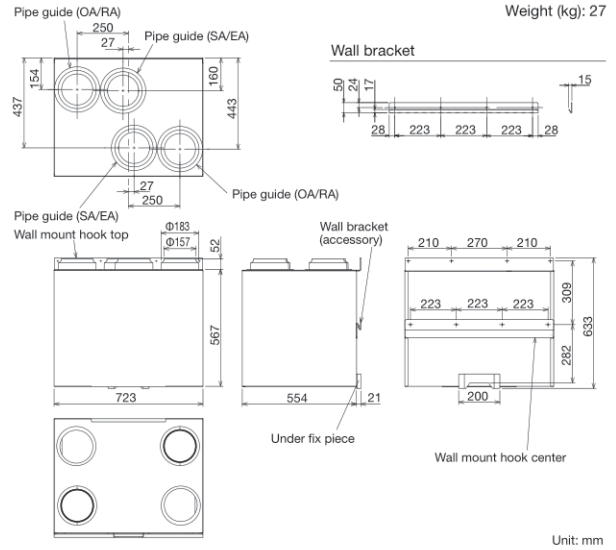
- Figures on the chart above are measured by Mitsubishi Electric.
- The silencer box is placed on the just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- When the airflow differs, the attenuation may be also different from the chart above.

■ 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

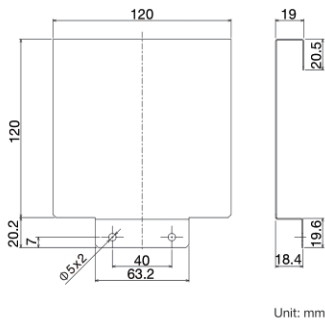


Remote Controller Cover

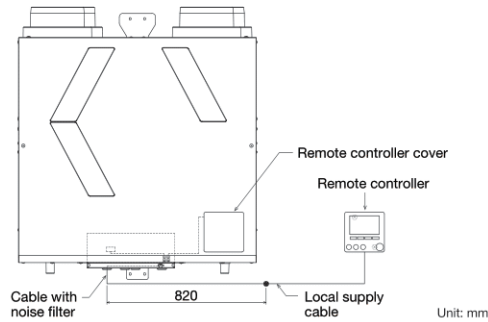
P-RCC-E

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 suited for houses and small offices.



VL-50(E)S₂-E
VL-50SR₂-E



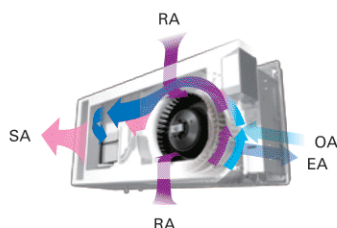
VL-100(E)U₅-E

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

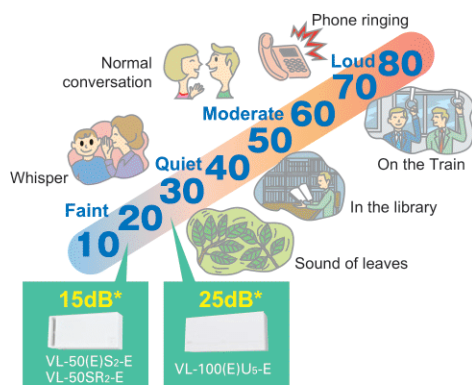
Product advantages

Air is supplied and exhausted simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.



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



Energy efficient

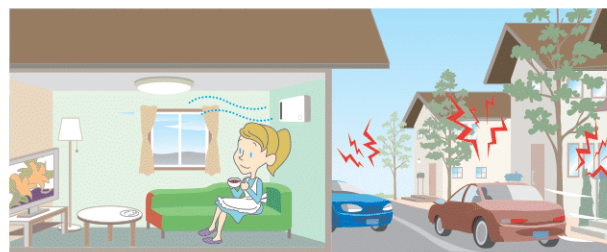
- Total heat exchange minimizes heat loss.
- Achieve over 80%* temperature efficiency.

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

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

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

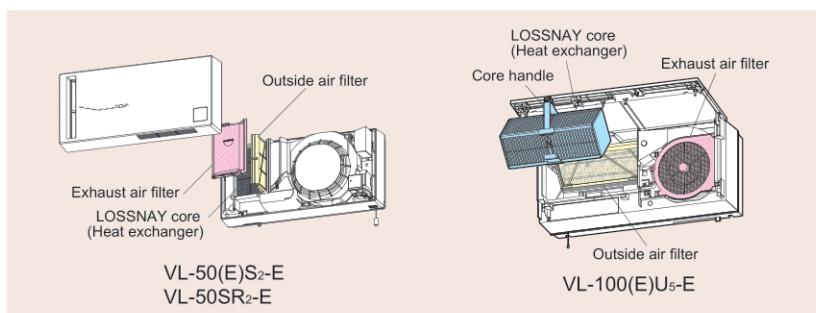
*Tested using VL-08S₂-AE

*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

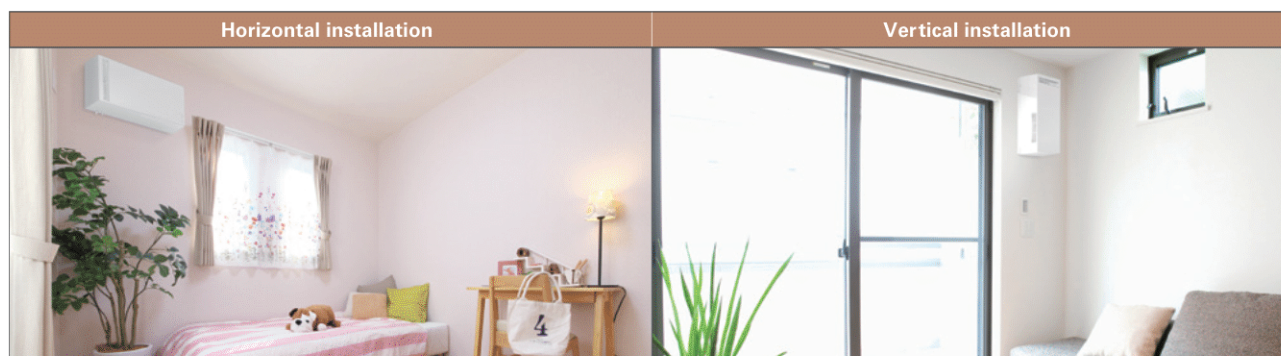
Easy maintenance

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



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

VL-50(E)S₂-E and VL-50SR₂-E may be installed either horizontally or vertically to fit in various types of rooms.



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

Specifications

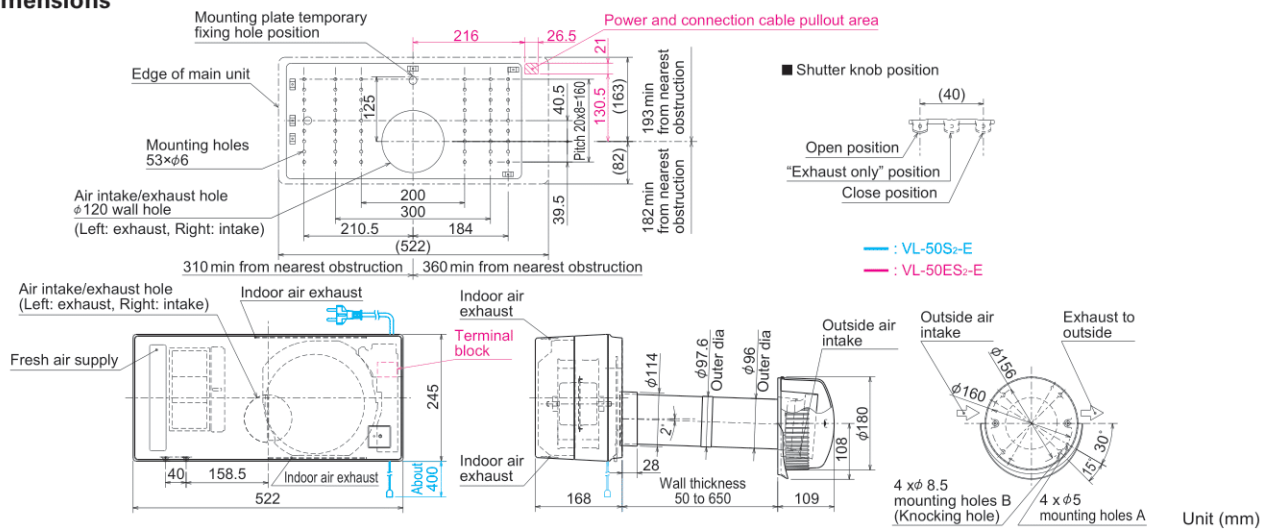
Model: VL-50S₂-E (Pull-Switch Model) and VL-50ES₂-E (Wall-Switch Model)

Model	VL-50(E)S ₂ -E							
	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
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.

*Specifications may be subject to change without notice.

Dimensions



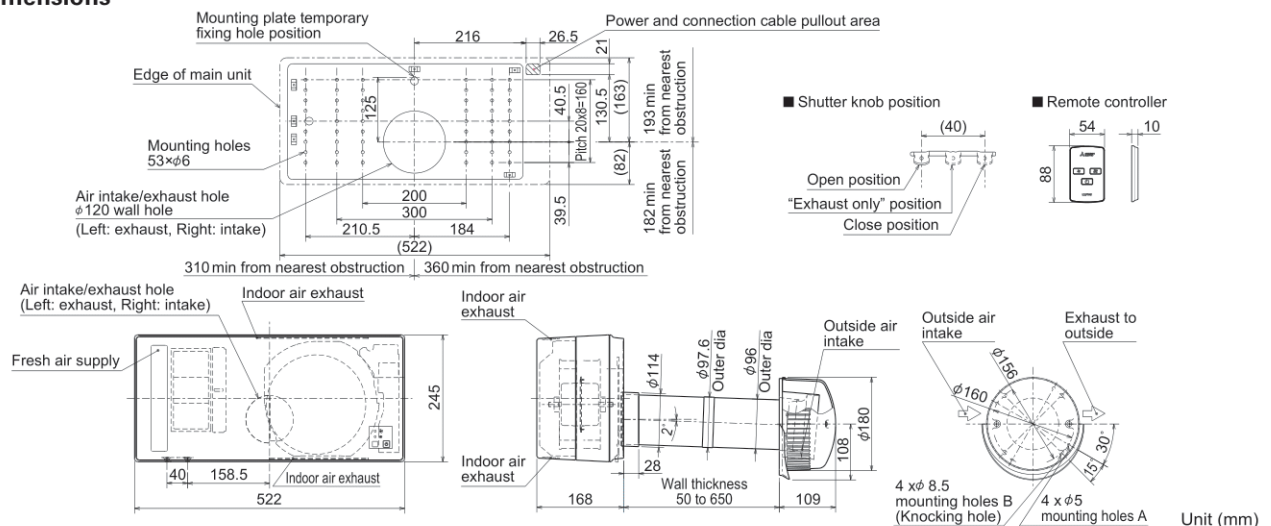
Model: VL-50SR₂-E (Remote Controller Model)

Model	VL-50SR ₂ -E							
	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
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.

*Specifications may be subject to change without notice.

Dimensions



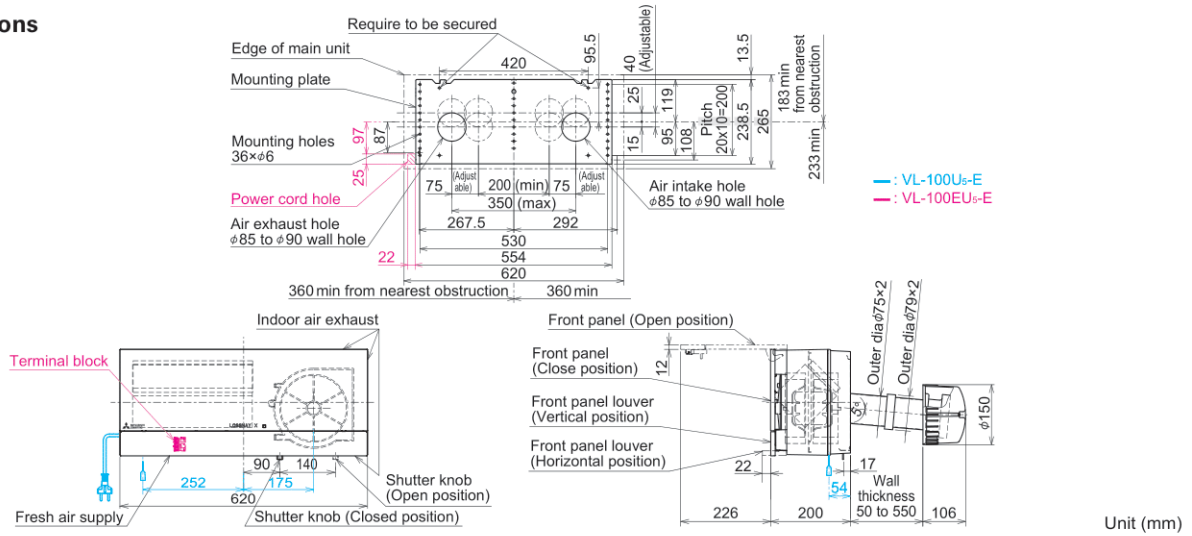
Model: VL-100U₅-E (Pull-Switch Model) and VL-100EU₅-E (Wall-Switch Model)

Model	VL-100(E)U ₅ -E							
	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
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)	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.

*Specifications may be subject to change without notice.

Dimensions



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-50F ₂ -E	P-50HF ₂ -E	P-50P-E	P-50PJ-E	P-50VSQ ₅ -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%	ePM ₁₀ 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-100F ₅ -E	P-100HF ₅ -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%	ePM ₁₀ 70%	-	-

PLASMA QUAD PROTECT

JC-4K-EU, JC-23KR-EU

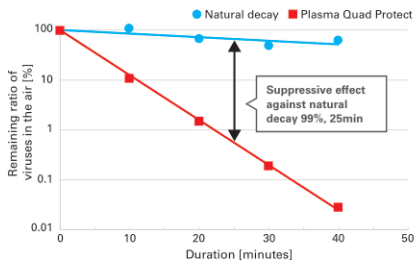
Core Technology

The JC series is equipped with a Plasma Quad electronic device. It is also equipped with a blower fan, so air control is performed while creating a circulating airflow. As a result, indoor air quality is improved. Two models are available to suit various spaces.

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.

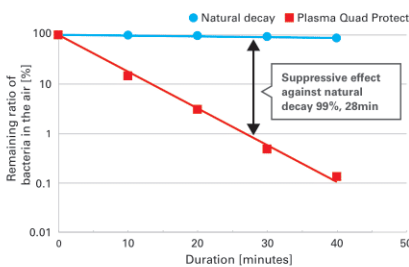


[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying virus in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of virus in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 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.

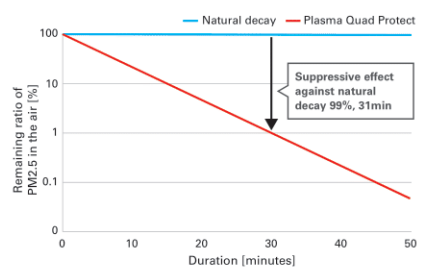


[Testing laboratory] Kitasato Research Center for Environmental Science
[Testing method] Spraying bacteria in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of bacteria in the air.
[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 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.

Air Purifier Type

Features and Concept

Flat and Stylish Design

JC-23KR-EU is a large air volume type. It is an air purifier equipped with a HEPA*1 filter with a CADR*2 rating. The stylish wall-mounted design matches almost any space.

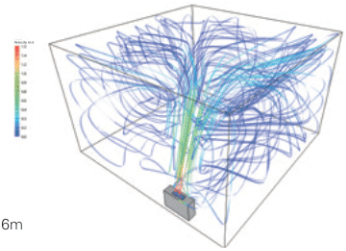


*1: HEPA filter rated as an EN1822 H13 grade.

*2: CADR (Clean Air Delivery Rate) value of 254m³/h (pollen), 222m³/h (dust) and 228m³/h (smoke).

Circulation throughout the Room

JC-23KR-EU creates circulation flow throughout the room. It sucks air into the product and first passes it through a dust filter. The air is then delivered to the HEPA filter and Plasma Quad device. The purified air is transported from the product to the entire room.



[Conditions for airflow simulation]
Air volume: 230m³/h (powerful mode)
Room dimensions: width 4.3m, depth 4.3m, height 2.6m
No wind, air current or ventilation in the room.

Visualization of Air Quality

JC-23KR-EU can be connected to MELCloud in the same way as air conditioners and LOSSNAY. By connecting to MELCloud, it is possible to check IAQ information and control air quality via the MELCloud app.



Specifications and Dimensions

This product has two manual operation modes: Powerful and Silent. It also has an Auto mode. When in Auto mode, the sensor detects the level of dirt in the room and operates with an appropriate air volume.

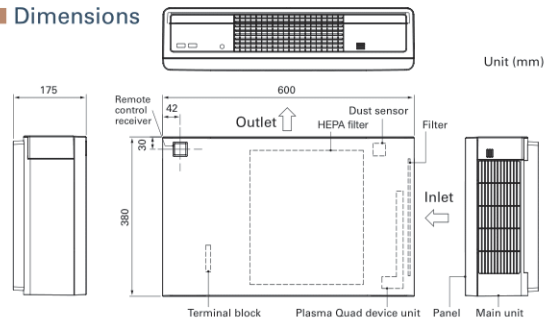
JC-23KR-EU



Specifications

Voltage	Fan speed	Power consumption [W]	Air volume [m ³ /h]	Noise level [dB]	Weight [kg]
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	

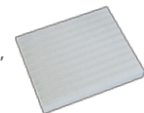
Dimensions



P-23KHF-E

Replacement Filter

When the HEPA filter needs to be replaced, please order the optional parts P-23KHF-E.



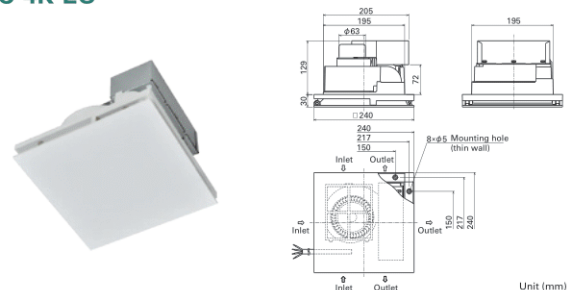
Air Circulator Fan Type

JC-4K-EU is a small air volume type product. It is installed on the ceiling or the wall. Dust filters and the Plasma Quad device will clean the air in the room. Use "High" fan speed to quickly improve indoor air quality, air "Low" fan speed for quiet operation.



JC-4K-EU

Dimensions



Specifications

Voltage	Fan speed	Power consumption [W]	Air volume [m ³ /h]	Noise level [dB]	Weight [kg]
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	

*Specifications may be subject to change without notice.

Optional parts		Model	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	LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E	GUF-50RD4	GUF-50RDH4	GUF-100RD4	GUF-100RDH4			
			Model																					
LOSSNAY remote controller	PZ-62DR-EA/EB		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	PZ-43SMF-E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
Filter	Replacement filter	PZ-**RF3-E (Coarse 60% filter)	PZ-15RF3-E	●																				
			PZ-25RF3-E		●																			
			PZ-35RF3-E			●																		
			PZ-50RF3-E				●																	
			PZ-65RF3-E					●																
			PZ-80RF3-E						●															
		PZ-100RF3-E							●															
		PZ-**RTF-E (Coarse 50% filter)	PZ-150RTF-E											●										
			PZ-250RTF-E												●	●								
		PZ-S**RF-E (Coarse 50% filter)	PZ-S50RF-E																					
			PZ-S80RF-E																					
			PZ-S100RF-E																					
	PZ-**RF8-E (Coarse 35% filter)	PZ-50RF8-E																						
		PZ-100RF8-E																						
	High-efficiency filter	PZ-**RFM3-E*1 (M6 filter)	PZ-15RFM3-E	●																				
			PZ-25RFM3-E		●																			
			PZ-35RFM3-E			●																		
			PZ-50RFM3-E				●																	
			PZ-65RFM3-E					●																
			PZ-80RFM3-E						●															
		PZ-S**RFM-E (ePM10 80% filter)	PZ-S50RFM-E																					
			PZ-S80RFM-E																					
		PZ-S100RFM-E																						
		PZ-**RFM-E (ePM10 75% filter)	PZ-50RFM-E																					
			PZ-100RFM-E																					
		Advanced high-efficiency filter	PZ-**RFP3-E (ePM1 75% filter)	PZ-15RFP3-E	●																			
	PZ-25RFP3-E				●																			
	PZ-35RFP3-E					●																		
	PZ-50RFP3-E						●																	
	PZ-65RFP3-E							●																
	PZ-80RFP3-E								●															
	PZ-**RFH3-E*1 (F8 filter)		PZ-15RFH3-E	●																				
			PZ-25RFH3-E		●																			
			PZ-35RFH3-E			●																		
			PZ-50RFH3-E				●																	
			PZ-65RFH3-E					●																
PZ-80RFH3-E								●																
PZ-100RFH3-E	PZ-100RFH3-E									●														
	PZ-100RFH3-E										●													
PZ-**RTFM-E	PZ-M6RTFM-E (M6 Filter)													●	●	●								
	PZ-F8RTFM-E (F8 Filter)													●	●	●								
	PZ-M6TDF-E (M6 Filter)													●	●	●								
	PZ-F8TDF-E (F8 Filter)													●	●	●								
PZ-S**RFH-E (ePM1 65% filter)	PZ-S50RFH-E																							
	PZ-S80RFH-E																							
	PZ-S100RFH-E																							
PZ-**RFP2-E (ePM1 75% filter)	PZ-50RFP2-E																							
	PZ-100RFP2-E																							
CO2 sensor	PZ-70CSD-E		●	●	●	●	●	●	●	●	●	●												
	PZ-70CSW-E	●	●	●	●	●	●	●	●	●	●													
Vertical installation plates	PZ-1VS-E	●	●	●	●																			
	PZ-2VS-E																							
Signal output terminal	PZ-4GS-E		●	●	●	●	●	●	●	●	●													
Duct silencer	PZ-**SS-E	PZ-100SS-E	●																					
		PZ-150SS-E		●	●																			
		PZ-200SS-E				●	●																	
		PZ-250SS-E																						

*1: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

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

Optional parts		Model		VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
Filter	Replacement filter (Coarse 55% filter)	P-**F-E	P-250F-E	●		
			P-350F-E		●	
			P-500F-E			●
	Standard filter (Coarse 90% filter)	P-**SF-E	P-250SF-E	●		
			P-350SF-E		●	
			P-500SF-E			●
	Medium-efficiency filter (ePM10 80% filter)	P-**MF-E	P-250MF-E	●		
			P-350MF-E		●	
			P-500MF-E			●
	PM2.5 filter (ePM2.5 50% filter)	P-**PF-E	P-250PF-E	●		
			P-350PF-E		●	
			P-500PF-E			●
	PM1 filter (ePM1 55% filter)	P-**PFH-E	P-250PFH-E	●		
			P-350PFH-E		●	
			P-500PFH-E			●
	NOx filter	P-**NF-E	P-250NF-E	●		
			P-350NF-E		●	
			P-500NF-E			●
Silencer box	P-**SB-E	P-250SB-E	●			
		P-350SB-E		●		
		P-500SB-E			●	
RC cover (remote controller cover)		P-RCC-E		●	●	●

Optional parts		Model		VL-50S ₂ -E	VL-50ES ₂ -E	VL-50RS ₂ -E	VL-100U ₅ -E	VL-100EU ₅ -E
Filter	Replacement filter	P-50F2-E		●	●	●		
		P-100F5-E				●	●	
	High-efficiency filter	P-50HF2-E		●	●	●		
		P-100HF5-E				●	●	
Extension pipe	P-50P-E		●	●	●			
	P-100P-E				●	●		
Pipe extension joint	P-50PJ-E		●	●	●			
	P-100PJ-E				●	●		
Stainless hood		P-50VSQ5-E		●	●	●		