IOSSNAY 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

Туре	Core	Model	Airflow	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1600 CMH	2000 CMH	2500 CMH
	ERV	LGH-RVX3 Series	Single decker	•	•	•	•	•	•	•			
LOSSNAY	LIV	LGI PIVVAS Series	Double decker								•	•	
	ERV	LGH-RVXT3 Series									•	•	•
	HRV	LGH-RVS Series	30				•		•	•			
LOSSNAY with Dx-Coil Unit	ERV	GUF Series					•			•			

^{*}ERV = Energy recovery ventilator *HRV = Heat recovery ventilator

PRODUCT LINEUP

Comm	ercial	Reside	ential
Ceiling Conc	ealed Type	Vertical Type	Wall mounted Type
LGH-RVX3 Series FV A commercially oriented system that can be used to deliver high performance and functions virtually anywhere. LGH-RVS Series FV Sensible heat models of the LGH series that can also be installed in sanitary areas.	LGH-RVXT3 Series ERV Thin, large airflow models of the LGH series that deliver high performance and functions. GUF Series ERV (LOSSNAY with Dx-Coil Unit) Heat recovery units with a heating and cooling system that uses the CITY MULTI outdoor units as a heat source.	VL-CZPVU Series HRV Vertical type for residential use. Centralized ventilation with sensible heat exchange.	VL-50(E)S ₂ -E ERV VL-50SR ₂ -E Wall mounted models for smaller air volumes. They may be installed both horizontally and vertically.
71			

^{*}ERV: Enegy recovery ventilator *HRV: Heat recovery ventilator

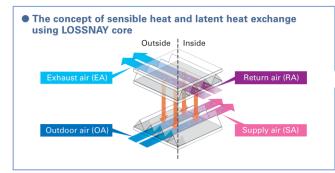
Commercial Use LOSSNAY

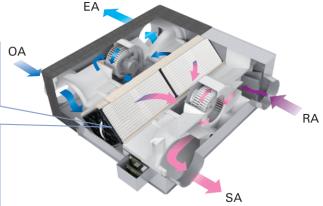


LGH SERIES

Optimized Indoor Air Quality through Temperature and Humidity Exchange by LOSSNAY

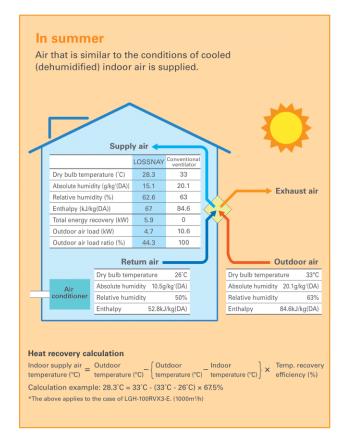
LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

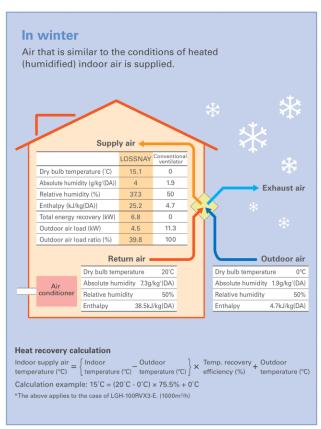




What is Improved by Introducing LOSSNAY?

Ventilation with maximized comfort



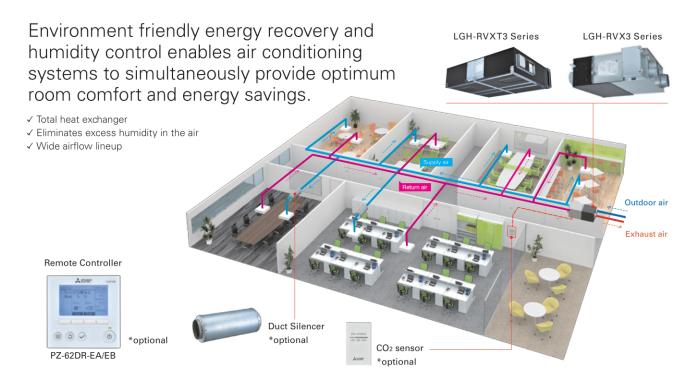


Installation Image

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

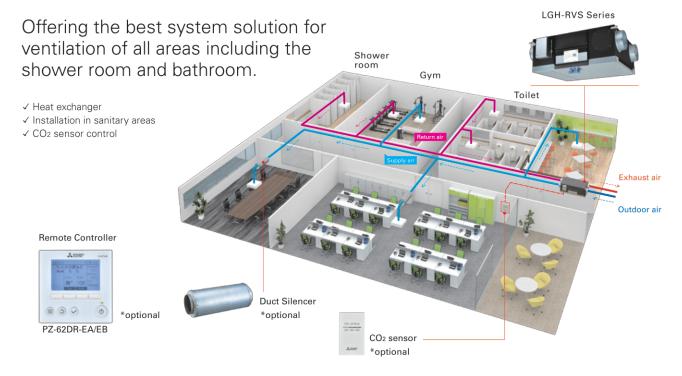
Energy Recovery Ventilation

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



Heat Recovery Ventilation

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

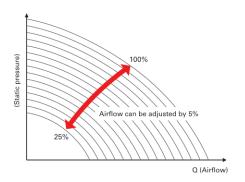


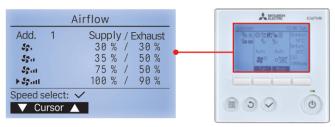
Features of LGH Series

Controllability

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.

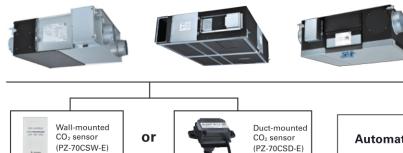




PZ-62DR-EA/EB

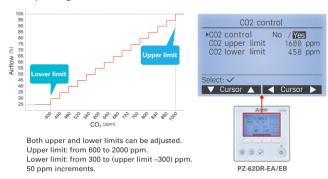
CO₂ sensor

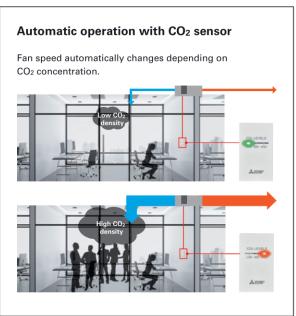
A CO₂ sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the detected CO₂ level. It improves total heat exchange efficiency and contributes to energy savings.



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

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



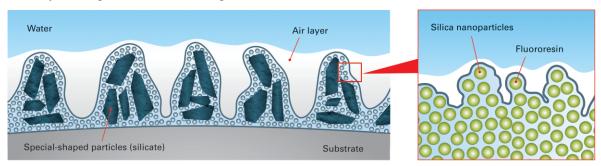


Dual Barrier Coating



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

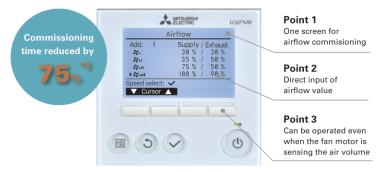


Installation Work

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.



PZ-62DR-EA/EB

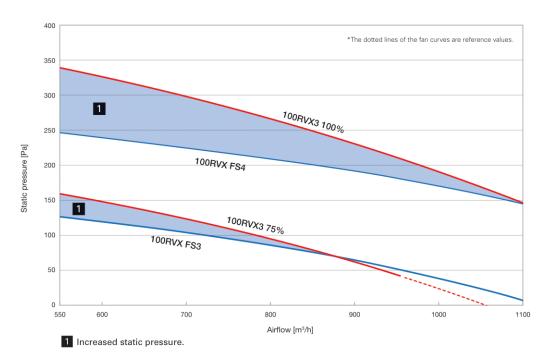
^{*1:} The average reduction rate when installing LGH-100RVX-E with PZ-61DR-E and LGH-100RVX3-E with PZ-62DR-EA/EB.

Setting work involves changing the supply/exhaust air volume. The time that can be reduced varies depending on the operator and work conditions.

RVX3 SERIES

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.



Flexible Vertical and Horizonal Installation

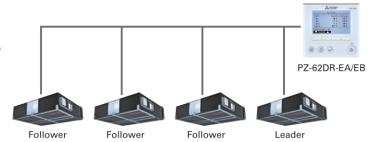
For RVX3 series, vertical installation has become possible for greater flexibility of installation locations. By using optional parts, the unit can be installed in places such as the machine room where only vertical installation is possible.



RVXT3 SERIES

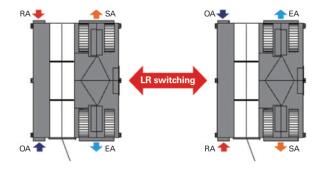
Large Airflow as One Unit: Leader-follower Function

- Multiple LOSSNAY units can be operated in synchronization as a single large airflow unit.
- A maximum of four units can be connected.
 In the case of four LGH-250RVXT3-E units, total air volume is approx. 10,000m³/h.*
 - *Actual aiflow depends on system design and site condition.
- Only same model can be in one group.
- PZ-62DR-EA/EB connection is required for this control.
- The maximum number of LOSSNAY units that can be connected in one group is four (one leader unit and three follower units)



Adaptable Installation: LR Switching

- Airflow direction can be changed using DIP switches.
- The indoor (SA/RA) and outdoor (OA/EA) sides can be switched depending on installation space.
- This facilitates ductwork and allows enough space for maintenance.
- *The unit cannot be flipped upside down.



RVS SERIES

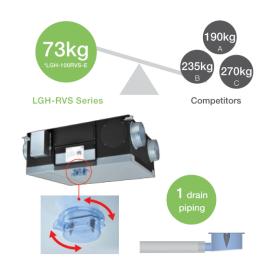
Easy Installation

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.

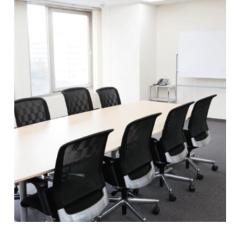
Easy drain piping

- · 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



LOSSNAY with Dx-Coil Unit

GUF SERIES



The GUF Series consists of a heat recovery unit (LOSSANY core) and a DX coil. Along with LOSSANY ventilation, it can be used as a main air conditioner when the load is light, and as a supplemental air conditioner in high load.

These units can be used with R410A.

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

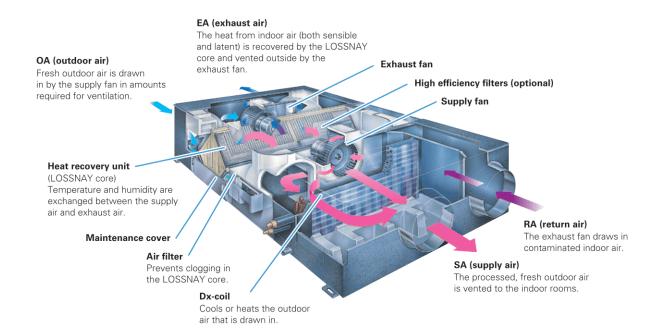
R410A Refrigerant Units

Mod	del Size	P112	P125	P140	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800
Y Series	PUHY-P-YNW-A2				•	•	•	•	•	•		•	•	•	•	•	•
R2 Series	PURY-P-YNW-A2				•	•	•	•	•	•		•	•	•			
DUIMAN O - vi	PUMY-SP	•	•	•													
PUMY Series	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



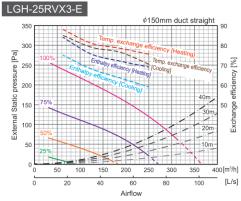
Specifications RVX3 SERIES

Model		l	LGH-15	RVX3-E			LGH-25	RVX3-E			LGH-35	RVX3-E		
Electrical power sup	ply	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1	
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%	
Input power (W)*1		55	30	15	10	75	42	21	11	120	61	29	15	
Λ : «flov. *1	(m ³ /h)	150	113	75	38	250	188	125	63	350	263	175	88	
Airflow (L/s)		42	31	21	10	69	52	35	17	97	73	49	24	
Specific fan power [\	N/(L/s)]*1	1.32	0.96	0.72	0.96	1.08	0.81	0.60	0.63	1.23	0.84	0.60	0.62	
External static pressure (Pa)*1		120	68	30	8	120	68	30	8	160	90	40	10	
Temperature exchange	Heating	73.5	75.5	78.0	81.5	75.5	78.5	81.0	88.0	75.0	77.0	79.0	82.0	
efficiency (%)*1	Cooling	65.5	70.5	73.5	78.0	70.5	76.5	79.0	85.0	66.5	71.0	74.0	79.0	
Enthalpy exchange	Heating	70.5	73.5	76.5	80.5	69.0	72.0	75.5	84.0	72.0	74.5	77.5	80.0	
efficiency (%)*1	Cooling	58.0	62.0	66.0	73.0	59.0	63.5	68.0	75.0	60.0	64.5	68.5	74.5	
Noise (dB)*2		27.0	22.0	18.0	17.0	30.5	25.0	19.5	17.0	30.5	24.5	19.0	17.0	
Exhaust air transfer ratio (%)*3				5			;	5			:	5		
Weight (kg)			2	0			2	2			3	0		
Maximum input power (W)			7	4			1	19			196			

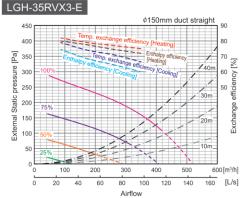
^{*}Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation. *1 : Measured according to ISO 16494-1: 2022

Characteristic curve

*The dotted lines of the fan curves are reference values

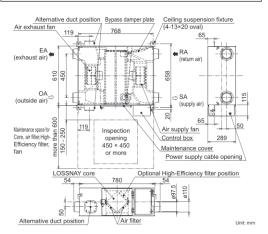


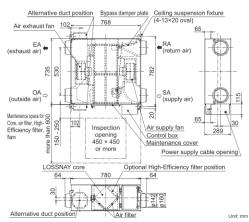
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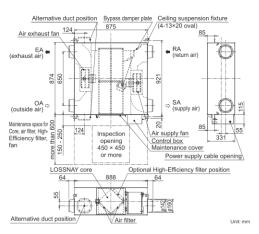


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Outline drawings







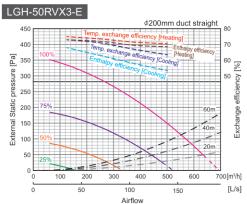
^{*2 :} A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *3 : Measured according to EN308: 2022 / FS3

Model			LGH-50	RVX3-E			LGH-65	RVX3-E			LGH-80	RVX3-E	
Electrical power sup	ply	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	lz, 220V/6	0Hz	220	-240V/50H	tz, 220V/6	0Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		185	81	34	15	245	120	51	20	343	160	64	23
Airflow ^{*1} (m³/h)		500	375	250	125	650	488	325	163	800	600	400	200
All llow	(L/s)	139	104	69	35	181	135	90	45	222	167	111	56
Specific fan power [\	N/(L/s)]*1	1.33	0.78	0.49	0.43	1.36	0.89	0.56	0.44	1.54	0.96	0.58	0.41
External static pressur	e (Pa)*1	150	85	38	10	150	85	38	10	170	96	43	11
Temperature exchange	Heating	70.5	71.5	73.5	75.0	72.5	75.0	78.5	82.0	75.0	76.5	78.0	80.0
efficiency (%)*2	Cooling	63.5	67.0	71.0	73.0	65.0	70.0	74.5	80.0	65.0	70.0	75.5	78.0
Enthalpy exchange	Heating	68.5	69.5	72.0	73.0	69.5	72.0	76.5	80.0	62.0	65.0	70.5	73.5
efficiency (%)*2	Cooling	53.5	58.0	63.0	68.0	55.5	60.0	66.5	74.0	54.5	58.5	65.0	70.5
Noise (dB)*3		35.0	27.0	21.0	17.0	37.5	31.5	24.0	17.5	39.0	33.5	25.0	18.0
Exhaust air transfer ratio (%)*4				5				5				5	
Weight (kg)			3	3			4	1		47			
Maximum input power (W)			27	77			36	60			50	03	

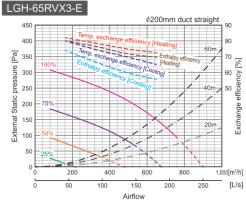
*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

- *1 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65/80RVX3-E) EN13053: 2019 *2 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65/80RVX3-E) EN308: 2022
- *3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4 : Measured according to EN308: 2022 / FS3

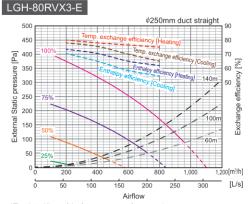
Characteristic curve



*The dotted lines of the fan curves are reference values.

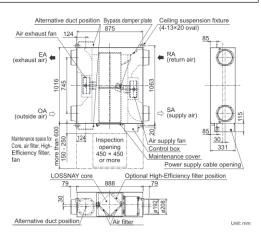


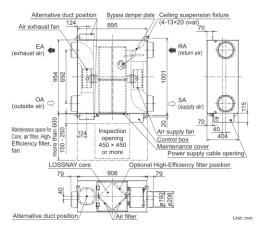
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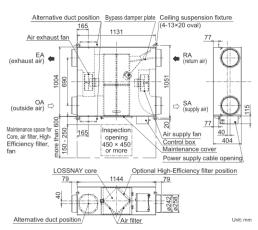


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Outline drawings







*Specifications may be subject to change without notice.

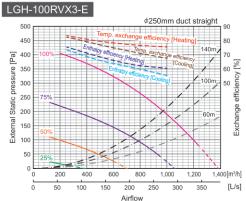
Model		L	.GH-100	RVX3-I	E	L	GH-160	RVX3-	E	L	.GH-200	RVX3-I	
Electrical power sup	ply	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	lz, 220V/6	0Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		438	210	83	27	687	324	128	45	855	416	163	57
Airflow*1	(m ³ /h)	1000	750	500	250	1600	1200	800	400	2000	1500	1000	500
Airflow ^{*1} (L/s)		278	208	139	69	444	333	222	111	556	417	278	139
Specific fan power [\	W/(L/s)] ^{*1}	1.58	1.01	0.60	0.39	1.55	0.97	0.58	0.41	1.54	1.00	0.59	0.41
External static pressur	e (Pa)*1	190	107	48	12	170	96	43	11	170	96	43	11
Temperature exchange	Heating	75.5	77.0	79.5	83.5	75.0	76.5	78.0	80.0	76.5	77.5	79.5	83.5
efficiency (%)*2	Cooling	67.5	72.0	77.0	82.5	65.0	70.0	75.5	78.0	66.5	71.5	76.0	82.5
Enthalpy exchange	Heating	60.5	63.0	68.5	75.5	62.0	65.0	70.5	73.5	60.5	64.0	67.5	76.0
efficiency (%)"2	Cooling	55.5	61.0	66.0	73.5	54.5	58.5	65.0	70.5	57.0	60.0	65.0	71.0
Noise (dB)*3		40.0	35.0	27.0	18.5	41.0	35.0	26.0	18.0	41.5	36.0	27.5	18.0
Exhaust air transfer ratio (%)*4			Ę	5				5				5	
Weight (kg)			5	3			9	6			10	08	
Maximum input power (W)			64	16			79	98			9	15	

- *Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

 *1: Measured according to EN13053: 2019 *2: Measured according to EN308: 2022

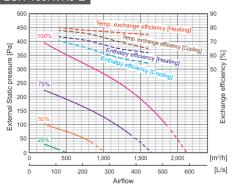
 *3: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4: Measured according to EN308: 2022 / FS3

Characteristic curve



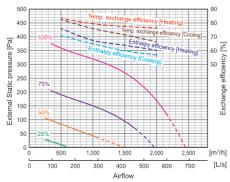
*The dotted lines of the fan curves are reference values

LGH-160RVX3-E



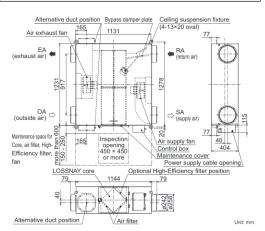
*The dotted lines of the fan curves are reference values.

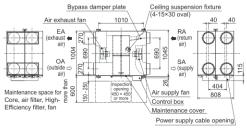
LGH-200RVX3-E

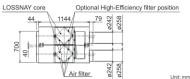


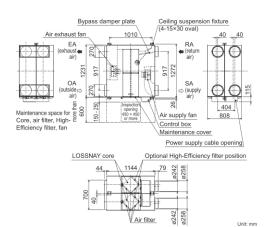
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Outline drawings







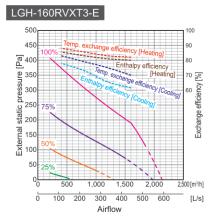


RVXT3 SERIES

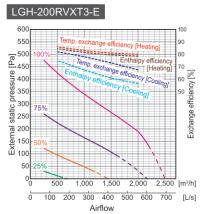
Model			LGH-160	RVXT3-E			LGH-200	RVXT3-E			LGH-250	RVXT3-E	
Electrical power supp	oly	380-415	V/3N~ 50H	łz, 380V/3	N~ 60Hz	380-415	V/3N~ 50H	lz, 380V/3	N~ 60Hz	380-415	V/3N~ 50H	tz, 380V/3	N~ 60Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default airflow setting]	100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
	L1-N	0	0	0	0	0	0	0	0	0	0	0	0
Input power (W)*1	L2-N	354	184	72	23	522	249	96	28	724	348	142	43
input power (vv)	L3-N	354	184	72	23	522	249	96	28	724	348	142	43
	Total	708	368	144	46	1044	498	192	56	1448	696	284	86
Airflow*1	(m ³ /h)	1600	1200	800	400	2000	1500	1000	500	2500	1875	1250	625
Allilow	(L/s)	444	333	222	111	556	417	278	139	694	521	347	174
Specific fan power (W/(L	/s))*1	1.59	1.10	0.65	0.41	1.88	1.20	0.69	0.40	2.09	1.34	0.82	0.50
External static pressure	(Pa) ^{*1}	190	107	48	12	190	107	48	12	190	107	48	12
Temperature exchange	Heating	82.0	83.0	85.5	88.0	80.0	81.0	83.0	86.0	77.0	78.0	80.0	84.0
efficiency (%)*2	Cooling	70.0	75.0	79.0	83.0	67.5	73.0	78.0	82.0	65.0	70.5	76.5	81.0
Enthalpy exchange	Heating	80.0	81.0	83.0	85.5	78.5	79.5	81.5	84.5	75.0	76.0	78.0	81.5
efficiency (%)*2	Cooling	61.5	65.5	73.0	78.0	56.5	61.0	67.5	75.0	54.0	59.0	66.0	73.0
Noise (dB)*3		38.0	33.0	26.0	19.5	40.0	35.0	28.0	21.0	44.0	38.0	31.5	23.0
Exhaust air transfer ratio (%)*4			5	.0			5	.0			5	.0	
Weight (kg)			1	72			1	72			1	72	
Maximum input power (W) (380-415V 3N~ 50Hz/380V 3N~ 60Hz)	Total		740-7	20/740			1060-10	40/1060			1480-14	60/1500	

^{*}Input power, efficiency, and noise are based on rated airflow, 400V/50Hz. ** In bypass mode, the maximum airflow is 70% of heat recovery mode. The same applies to the Night-purge function. *1: Measured according to EN13053: 2019 *2: Measured according to EN308: 2022 *3: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4: Measured according to EN308: 2022 / 75% fan speed

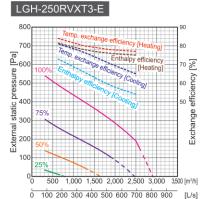
Characteristic curve



*The dotted lines of the fan curves are reference values.



*The dotted lines of the fan curves are reference values.
*Leader-follower function is not available when external static pressure is more than 460Pa.



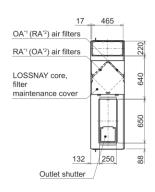
Airflow *The dotted lines of the fan curves are reference values.
*Leader-follower function is not available when external static pressure is more than 460Pa.

Outline drawings

LGH-160RVXT3-E

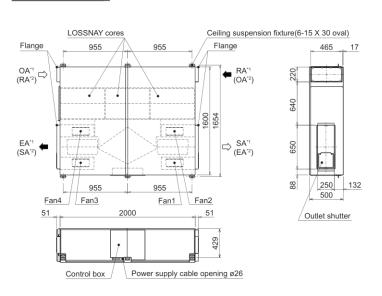
LGH-200RVXT3-E

LGH-250RVXT3-E



SA [supply air] EA [exhaust air outlet]

AA [return air]
OA [outside air intake]
*1 : LR switching is OFF (Factory setting)
*2 : LR switching is ON



*Specifications may be subject to change without notice.

Unit (mm)

RVS SERIES

Model			LGH-50	RVS-E			LGH-80	RVS-E		LGH-100RVS-E				
Electrical power supp	oly	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	
Fan speed		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%	
Input power (W)		190	110	60	25	325	175	85	32	445	225	100	35	
Airflow	(m³/h)	500	375	250	125	800	600	400	200	1000	750	500	250	
Airflow (L/s)		139	104	69	35	222	167	111	56	278	208	139	69	
Specific fan power (V	1.37	1.06	0.86	0.72	1.46	1.05	0.77	0.58	1.60	1.08	0.72	0.50		
External static pressu	ure (Pa)	150	84	38	9	170	96	43	11	190	107	48	12	
Temp. exchange efficie	ency (%)	87.0	89.0	91.0	93.0	82.0	84.0	86.0	90.0	82.0	84.0	86.0	90.0	
Noise (dB)		33.0	27.0	22.0	18.0	36.0	30.0	25.0	18.0	37.0	32.0	24.0	18.0	
Exhaust air transfer r	atio (%)		į	5			:	5				5		
Weight		55kg (67l	kg with ma	ximum dra	ain water)	63kg (77k	kg with ma	ximum dra	ain water)	73kg (89l	kg with ma	ximum dra	ain water)	
Maximum input power (W) (220-240V 50Hz/220V 60Hz) Total			361-36	60/359			622-62	21/619			691-7	82/679		

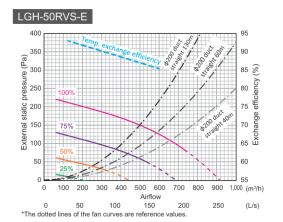
The input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/ WB 15°C and outdoor DB 5°C/ WB 3°C. It is measured according to ISO16494.

When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.

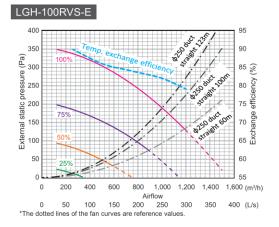
The absolute humidity of RA shall be lower than 0.0139kg/kg(DA) in winter and the relative humidity of RA shall be lower than 90%RH through the year.

Examples of the absolute humidity 0.0139kg/kg(DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

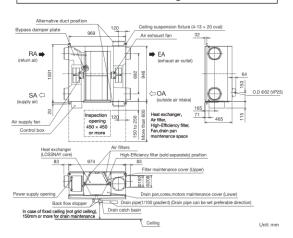
Characteristic curve

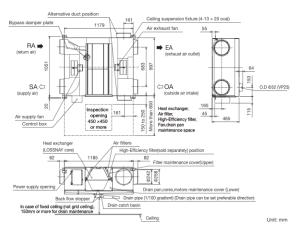


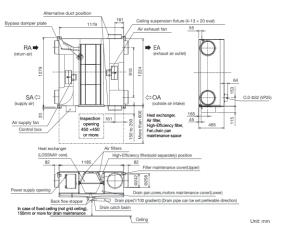
LGH-80RVS-E 350 (Pa) 300 250 200 70 Page 65 Exchange 6 150 a 100 60 50 0 200 800 1,200 1,400 (m³/h) Airflow 50 100 150 200 250 300 350 (L/s)



Outline drawings







GUF SERIES

			GUF-5	0RD4			GUF-1	00RD4			
ower suppl	у		220-240	V/50Hz			220-240	V/50Hz			
mode		Heat reco	very mode	Bypas	s mode	Heat reco	very mode	Bypas	s mode		
		High	Low	High	Low	High	Low	High	Low		
ırrent (A)		1.15	0.70	1.15	0.70	2.20	1.73	2.25	1.77		
r (W)		235-265	150-165	235-265	150-165	480-505	370-395	490-515	385-410		
	(m ³ /h)	500	400	500	400	1000	800	1000	800		
irflow (L/s)		139	111	139	111	278	222	278	222		
External static pressure (Pa)			90	140	90	140	90	140	90		
Temperature exchange efficiency (%)			80	_	_	79.5	81.5	_	_		
exchange	Heating	68	71	_	-	71	74	-	-		
%)	Cooling	65	67	_	_	69	71	_	-		
pacity (kW)			5.57 ((1.94)		11.44 (4.12)					
pacity (kW)			6.21 ((2.04)			12.56	(4.26)			
valent to the in	ndoor unit		P	32			P	63			
Humidifyin	9		-	-			-	-			
Humidifying ca	pacity (kg/h)		-	_			-	-			
Water supply pressure											
Noise (dB) Measured at 1.5m under the center of the unit)		33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36		
Weight (kg)			4	8		82					
	mode arrent (A) r (W) atic pressur exchange effic exchange (M) pacity (kW) pacity (kW) valent to the ir Humidifying ca Water suppl	arrent (A) r (W) (m³/h) (L/s) atic pressure (Pa) exchange efficiency (%) exchange Heating Cooling bacity (kW) pacity (kW) valent to the indoor unit Humidifying Humidifying capacity (kg/h) Water supply pressure	mode	220-240	Heat recovery mode	March Marc	Description Cooling Cooling	cower supply 220-240V/50Hz 220-240 (a) mode Heat recovery mode Bypass mode Heat recovery mode High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low High Low Low High Low High Low High Low High Low High <th< td=""><td> Description Section Section </td></th<>	Description Section Section		

*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

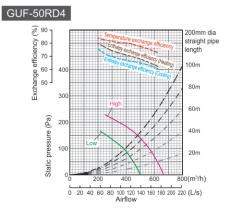
Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

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

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

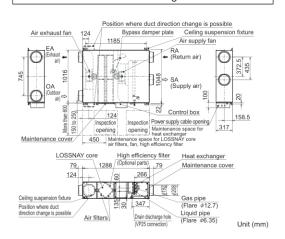
*When the total capacity of indoor units connected to 1 outdoor unit (PUHY or PURY) exceeds the capacity of the outdoor unit, the total capacity of GUF needs to be 30% and less of the connected outdoor unit capacity.

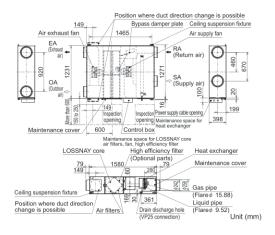
Characteristic curve



GUF-100RD4 %) 80 Exchange straight pipe 60 40 ength 50 30 (Pa) 80m 20 60m Static pressure 40m 100 20m 00 (m³/h) 100 150 200 250 300 350 400 (L/s) Airflow 50

Outline drawings

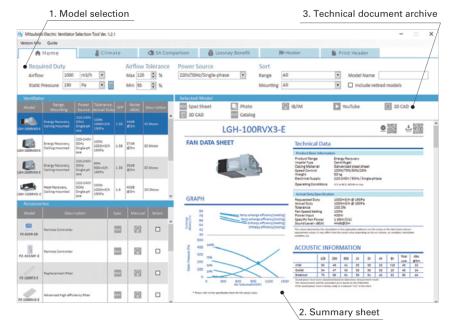




*Specifications may be subject to change without notice.

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

An appropriate model can be selected simply by inputing 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!

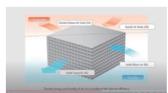
LOSSNAY YouTube Channel

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





^{*}This image is for illustration purpose and actual data may vary.

^{*}Ratings and specifications may change due to product improvements or modifications.

CONTROL TECHNOLOGIES

Compatibility Table

Model	PZ-62DR-EA/EB	PZ-43SMF-E
lmage	Total Superior Control	A REMOTE TO SEE STATE TIMES FLICE FLICE FLICE TO SEE STATE TO SEE
Dimension	120 A MERICAN 100 NAV	70 15
	Unit (mm)	Unit (mm)
	Remote Controller Compatibility Ta	ble
Model name	PZ-62DR-EA/EB	PZ-43SMF-E
Compatible series	LGH-RVX3/RVXT3/RVS	LGH-RVX3/RVXT3/RVS
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO ₂ sensor)	2 of 4 fan speeds
Control with a CO ₂ sensor (Mitsubishi Electric and field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night purge	Yes	No
Function setting with remote controller	Yes	No
Bypass temp. free setting	Yes	No
Flexible airflow setting	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No
ON/OFF timer	Yes	Yes
Auto-off timer	Yes	No
Weekly timer	Yes	No
Fan speed timer	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	No
Operation restrictions (fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (17 languages)	No (English only)
CO ₂ concentration indication (Mitsubishi Electric and field supply)	Yes	No
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes
LOSSNAY core cleaning sign	Yes/No (RVS Series)	No
Error indication	Yes (Displays model name, serial number, contact information)	Yes
Error history	Yes	No
OA/RA/SA temp. display	Yes	No
*When using a CO ₂ sensor Unper and lower	an lineite many differ	

^{*}When using a CO₂ sensor. Upper and lower limits may differ.

Remote Control Language Table

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

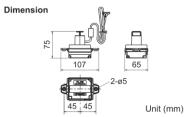
CO₂ Sensors

Connecting a CO₂ sensor directly to the LOSSNAY unit will optimize fan speed according to the level of CO₂ detected.

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

Mounted in the duct with all the wiring hidden in the ceiling.

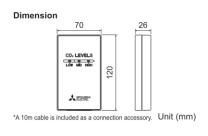




PZ-70CSW-E (Wall-mounted type)

Mounted on the wall. CO2 is monitored in 3 levels.





Vertical Installation Plates

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



Parts used to install RVX3 vertically.

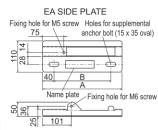
EA side plate RA side plate

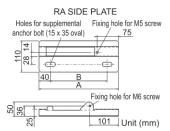
Change dimension table (Unit: mm)

Model	А	В	Weight (kg)	Applicable model
PZ-1VS-E	280	200	1.2	LGH-15 to 50RVX3-E
PZ-2VS-E	380	300	1.6	LGH-65 to 100RVX3-E

^{*}Not applicable to LGH-160/200RVX3-E

Dimension





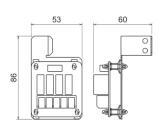
Signal Output Terminal

PZ-4GS-E



The PCBs of RVX3, RVXT3, RVS have only one output terminal. By using PZ-4GS-E, four more output terminals can be added to the units.

Dimension



Wiring diagram Accessory parts PZ-4GS-E

CN50 LOSSNAY circuit board DC5V Max. AC240V 1A (Up to 1.5A for common terminals)

*Wiring work must be performed by a qualified

Duct Silencer



The duct silencer connects to the LOSSNAY unit to reduce airflow noise.

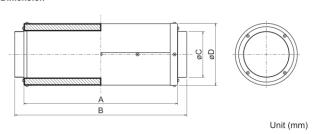
Specifications

Model	Airflow	Attenu	uation of s	ound pow	d power level [dB] at center frequency (discharge)							
iviodei	(m³/h)	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz			
PZ-100SS-E	50	0	3	5	7	6	6	6	8			
PZ-10055-E	150	0	3	6	7	7	7	7	9			
PZ-150SS-E	250	0	1	5	8	15	21	20	14			
PZ-15055-E	350	0	1	4	8	14	21	21	16			
PZ-200SS-E	500	0	1	4	7	13	18	16	9			
FZ-20033-E	650	0	1	3	8	12	17	14	6			
PZ-250SS-E	800	0	2	4	12	22	21	14	13			
PZ-20055-E	1000	0	1	4	12	22	20	14	13			

- Figures in the chart above are based on a comparison with a general steel duct of the same length.
 The silencer is placed just before the outlet during the measurement.
 When the airflow rate differs, attenuation will also differ from the chart above.
 Figures in the chart above are flat (not-weighted) values.

- Some ratings and specifications may change due to product improvements or modifications.

Dimension



Unit (mm)

Change dimension table (Unit: mm)

Model	А	В	С	D	Connectable Duct	Weight (kg)							
PZ-100SS-E	400	450	99	152	ø100	1.9							
PZ-150SS-E	500	560	149	202	ø150	3.5							
PZ-200SS-E	600	660	199	252	ø200	5.3							
PZ-250SS-E	600	660	249	332	ø250	8.9							

Filters

Lineup and Classification

LOSS	YAY				Filter		
						Classification	
	Fil	ter					
Model	Standard Setting	Optional Setting	Name	Model	Material	ISO 16890: 2016	EN779: 2012
A	•		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
LGH-RVX3 Series		●*1	Advanced high-efficiency filter (F8 filter)	PZ-**RFH3-E	Synthetic fiber	-	F8
	•		Replacement filter (Coarse 60% filter)	PZ-250TRF-E	Non-woven fabric	Coarse 60%	-
		•	Advanced high-efficiency filter (ePM1 75%)	PZ-250TPF-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	-
		●*1	High-efficiency filter (M6 filter)	PZ-250TMFR-E	Synthetic fiber	-	M6
LGH-RVXT3 Series		●*1	Advanced high-efficiency filter (F8 filter)	PZ-250THFR-E	Synthetic fiber	-	F8
	•		Replacement filter (Coarse 50% filter)	PZ-S**RF-E	Non-woven fabric	Coarse 50%	G3
		•	High-efficiency filter (ePM10 80% filter)	PZ-S**RFM-E	Synthetic fiber	ePM10 80%	M6
LGH-RVS Series		•	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%	_
GUF Series		•	Advanced high-efficiency filter (ePM1 75%)	PZ-**RFP2-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	

^{*1:} Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVX3 SERIES

		Filter					Package	In	stallatio	n locati	on
luceus	Model		Dime	ension (mm)	Pieces per	number for	N	lumbers	of filter	rs
Image	Model	Applicable model	L	W	Н	package	replacement		OA	RA	S
Replacement filter	PZ-15RF3-E	LGH-15RVX3-E	549	125	20	2	1	2	1	1	
Coarse 60% filter)	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	П
	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	Т
	D7 00DE0 E	LGH-80RVX3-E	000	000	45		1	2	1	1	\Box
	PZ-80RF3-E	LGH-160RVX3-E	890	238	15	2	2	4	2	2	
	D7 400DE0 E	LGH-100RVX3-E	4447	000	4.5		1	2	1	1	
	PZ-100RF3-E	LGH-200RVX3-E	1117	238	15	2	2	4	2	2	
dvanced	PZ-15RFP3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	_	_	
igh-efficiency filter	PZ-25RFP3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	-	_	
PM1 75% filter)	PZ-35RFP3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	_	_	
	PZ-50RFP3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	_	_	Т
	PZ-65RFP3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	_	_	\Box
	D7 00DED0 E	LGH-80RVX3-E	440	045.5	05	0	1	2	-	-	
	PZ-80RFP3-E	LGH-160RVX3-E	442	215.5	25	2	2	4	_	_	Т
	PZ-100RFP3-E	LGH-100RVX3-E	554	045.5	25	0	1	2	_	_	П
	PZ-100RFP3-E	LGH-200RVX3-E	554	215.5	25	2		4	_	_	Г
igh-efficiency	PZ-15RFM3-E	LGH-15RVX3-E	542	125	13	1	1	1	1	_	П
ter ^{*2} (M6 filter)	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	423	213	13	2	1	2	2	_	
	D7 00DEM2 E	LGH-80RVX3-E	440	220	40	2	1	2	2	_	
	PZ-80RFM3-E	LGH-160RVX3-E	442	238	13	2	2	4	4	-	
	PZ-100RFM3-E	LGH-100RVX3-E	554	238	13	2	1	2	2	_	
	PZ-100RFW3-E	LGH-200RVX3-E	554	238	13	2	2	4	4	_	
dvanced	PZ-15RFH3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	_	_	Т
igh-efficiency	PZ-25RFH3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	_	_	
ter ^{*2} ⁻ 8 filter)	PZ-35RFH3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	_	_	
o liller)	PZ-50RFH3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	-	-	
	PZ-65RFH3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	-	-	
	D7 00D5U0 5	LGH-80RVX3-E	440	245.5	25	2	1	2	-	-	
	PZ-80RFH3-E	LGH-160RVX3-E	442	215.5	25	2	2	4	-	-	
	D7 400D5110 5	LGH-100RVX3-E	F	045.5	05	2	1	2	-	-	
	PZ-100RFH3-E	LGH-200RVX3-E	554	215.5	25	2	2	4		_	

^{*2:} Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVXT3 SERIES

	Filter											I	nstalla	ation l	ocatio	n
					Din	nensi	on (n	ım)		Pieces	Package number for		Numb	ers of	filters	
	Image	Model	Applicable model		Short			Long		per	replacement		OA	RA	S	A
			Applicable illouer	L	W	Н	L	W	Н	package			Long	Long	Short	Long
(C	eplacement filter oarse 60% er)	PZ-250TRF-E		-	-	-	995	285	15	Long : 4	1	4	2	2	-	-
eff	dvanced high- ficiency filter PM1 75% filter)	PZ-250TPF-E	LGH-160RVXT3-E LGH-200RVXT3-E	663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1
	gh-efficiency er (M6 filter) ^{3*}	PZ-250TMFR-E	LGH-250RVXT3-E	-	-	-	1003	283	13	Long : 2	1	2	2	-	-	-
eff	dvanced high- ficiency filter 8 filter)' ³	PZ-250THFR-E		663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1

^{*3:} Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVS SERIES

		Filter					Package	In	stallatio	n locati	on
Image	Model		Dime	ension	(mm)	Pieces per	number for	N	lumbers	of filter	s
illaye	Model	Applicable model	L	W	Н	package	replacement		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	2	1	1	
-	PZ-S100RF-E	LGH-100RVS-E	1112	195	15	2	1	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	1	2	2	_	_
	PZ-S100RFM-E	LGH-100RVS-E	556	195	15	2	1	2	2	_	_
Advanced high- efficiency filter	PZ-S50RFH-E	LGH-50RVS-E	412	203	25	2	1	2	2	_	_
(ePM1 65% filter)	PZ-S80RFH-E	LGH-80RVS-E	432	203	25	2	1	2	2	_	_
4	PZ-S100RFH-E	LGH-100RVS-E	546	203	25	2	1	2	2	-	_

For GUF SERIES

		Filter		Package	In	stallatio	n locati	on			
I	Model		Dime	ension	(mm)	Pieces per	number for	1	lumbers	of filter	's
Image	Model	Applicable model	L	W	Н	package	replacement		OA	RA	SA
Replacement filter (Coarse 35% filter)	PZ-50RF8-E	GUF-50RD4	470	183	15	4	1	4	2	2	-
	PZ-100RF8-E	GUF-100RD4	565	243	15	4	1	4	2	2	-
High-efficiency filter (ePM10 75% filter)	PZ-50RFM-E	GUF-50RD4	464	175	25	2	1	2	-	-	2
	PZ-100RFM-E	GUF-100RD4	559	236	25	2	1	2	-	-	2
Advanced high-effi- ciency filter (ePM1 75% filter)	PZ-50RFP2-E	GUF-50RD4	464	175	25	2	1	2	-	-	2
	PZ-100RFP2-E	GUF-100RD4	559	236	25	2	1	2	-	-	2

Residential Use LOSSNAY

VL-CZPVU SERIES



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

Key Features



Quiet Operation

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

Air Purification

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

*NOx: Nitrogen oxide, which includes nitric oxide (NO) and nitrogen dioxide (NO2).

*PM2.5: Airborne particulates that are 2.5µm or smaller in size

Wi-Fi Control

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

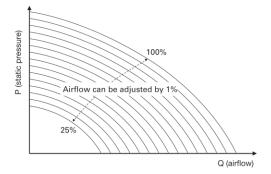
Energy Saving

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.



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.



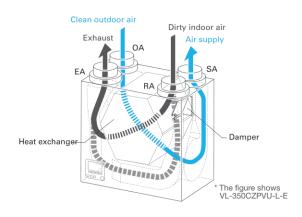
External Airflow Control

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.



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)



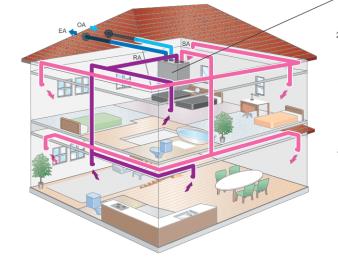
Isntallation Image

Centralized Ventilation

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







bedroom bedroom SA RA bedroom



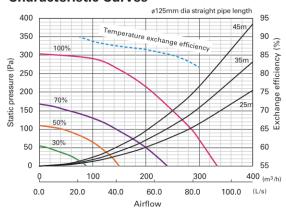
Specifications VL-CZPVU SERIES

Model		V	L-250CZ	PVU-R/L	-E			
Electrical power supp	ly	22	0-240V/50H	lz, 220V-/60	Hz			
Ventilation mode			Heat reco	very mode				
Fan speed		FS4 (100%)	FS4 (100%) FS3 (70%) FS2 (50%)					
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			
Allilow	(L/s)	69	49	35	21			
External static pressu	ıre (Pa)	150	74	38	14			
Temperature exchange effi	ciency (%)	85	87	88	90			
Noise level (dB)		31	22	16	15>			
Energy efficiency class	SS		А	+				
Weight (kg)		26						
Dimensions (mm)		(H) 565 x (W) 595 x (D) 356						

■ Attention

- 1. Above values are at factory default.
 2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 3. 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.

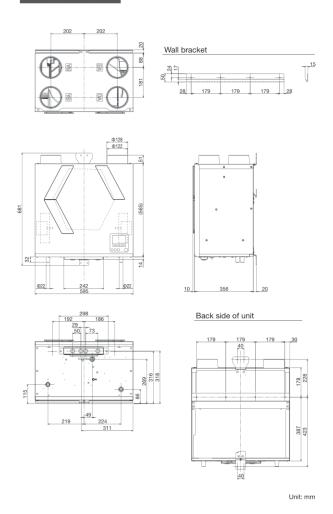
Characteristic Curves



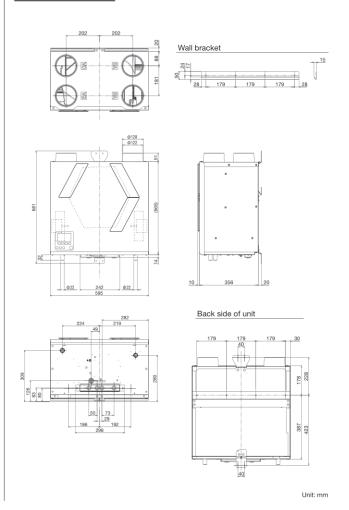
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-250CZPVU-R-E



VL-250CZPVU-L-E

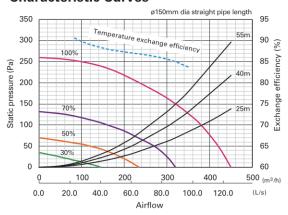


Model		V	L-350CZ	PVU-R/L	-E		
Electrical power supp	ly	22	0-240V/50H	z, 220V-/60	Hz		
Ventilation mode			Heat reco	very mode			
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)		
Running current (A)		1.08	0.52	0.31	0.18		
Input power (W)		155	71	37	19		
Airflow	(m ³ /h)	320	224	160	96		
Allilow	(L/s)	89	62	44	27		
External static pressu	ıre (Pa)	150	74	38	14		
Temperature exchange effi	ciency (%)	85	87	88	90		
Noise level (dB)		35	26	19	15>		
Energy efficiency class	SS		А	+			
Weight (kg)	32						
Dimensions (mm)		(H) 623 x (W) 658 x (D) 432					

■ Attention

- 1. Above values are at factory default.
 2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 3. 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

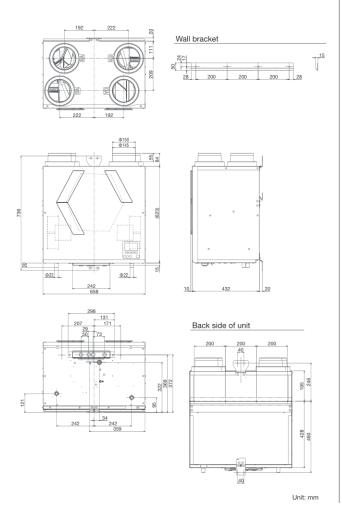


■ Attention

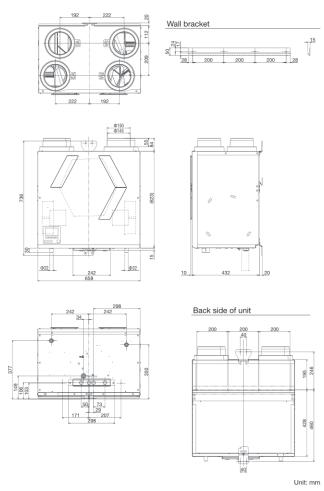
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-350CZPVU-R-E



VL-350CZPVU-L-E

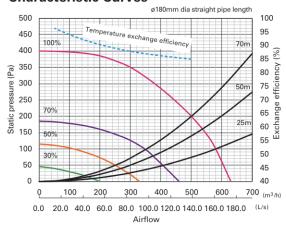


Model		V	L-500CZ	PVU-R/L	-E		
Electrical power supp	ly	22	0-240V/50H	z, 220V-/60	Hz		
Ventilation mode			Heat reco	very mode			
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)		
Running current (A)		1.73	0.77	0.40	0.19		
Input power (W)		275	104	49	21		
Airflow	(m ³ /h)	500	350	250	150		
Allilow	(L/s)	139	97	69	42		
External static pressu	ire (Pa)	200	98	50	18		
Temperature exchange effi	ciency (%)	85	87	89	92		
Noise level (dB)		37	29	22	15>		
Energy efficiency class	SS		А	+			
Weight (kg)	39						
Dimensions (mm)		(H) 632 x (W) 725 x (D) 556					

■ Attention

- 1. Above values are at factory default.
 2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 3. 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.

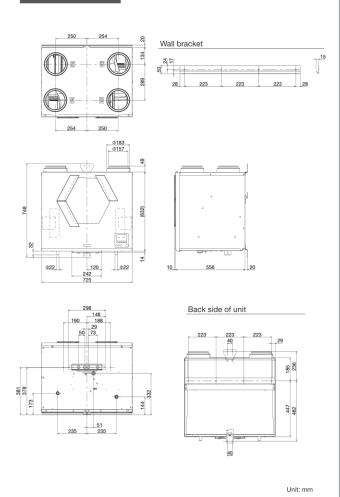
Characteristic Curves



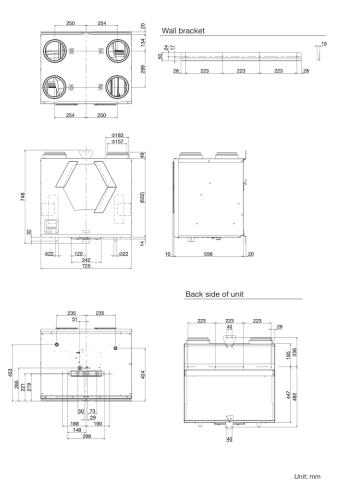
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-500CZPVU-R-E



VL-500CZPVU-L-E



Silencer Box

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



■ Dimensions



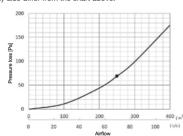
P-250SB-E

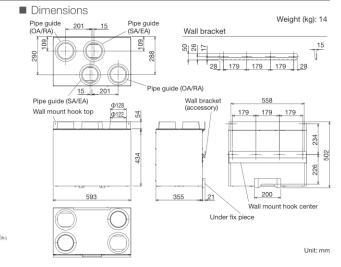
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	ation of	sound power level for center frequency Hz (dB)								
(111711)	(Pa)		63	125	250	500	1000	2000	4000	8000			
175	74	Outlet (SA/EA)	9	7	11	19	29	28	21	13			

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

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





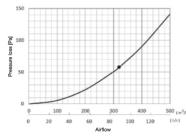
P-350SB-E

■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	ation of	sound power level for center frequency Hz (dB)								
(111-711)	(Pa)		63	125	250	500	1000	2000	4000	8000			
224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12			

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

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



Weight (kg): 17 191 Wall bracket 28 200 200 200 28 Pipe guide (OA/RA) 51 | 191 Pipe guide (SA/EA) 590 Wall mount hook top 200 200 200 254 465 99 268 655 430 200 Wall mount book center Under fix piece

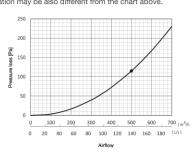
P-500SB-E

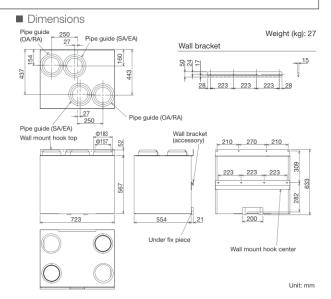
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	ation of	sound p	ower lev	el for ce	enter free	quency H	łz (dB)
	(Pa)		63	125	250	500	1000	2000	4000	8000
350	98	Outlet (SA/EA)	10.5	9.5	13.0	21.0	27.0	29.0	26.0	14.0

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

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

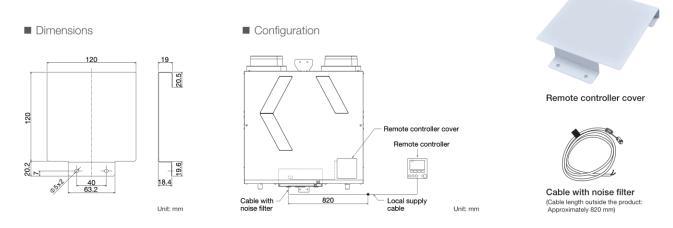




Unit: mm

Remote Controller Cover

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



Filters

Тур	oe	Replacement filter	Standard filter	Medium efficiency filter	Advanced efficiency filter	Advanced high efficiency filter	NOx Filter
Mod	del	P-250F-E P-350F-E	P-250SF-E P-350SF-E	P-250MF-E P-350MF-E	P-250PF-E P-350PF-E	P-250PFH-E P-350PFH-E	P-250NF-E P-350NF-E
		P-500F-E	P-500SF-E	P-500MF-E	P-500PF-E	P-500PFH-E	P-500NF-E
Classification	EN779 (2012)	G3	G4	M6	M6	ePM1 55%	NO ₂ 90%
Ciassification	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM ₁₀ 80%	ePM2.5 50%	GEIMI 3370	NO ₂ 9070

VL-50

Wall-mounted models particularly suited for houses and small offices.



VL-50(E)S₂-E VL-50SR₂-E

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

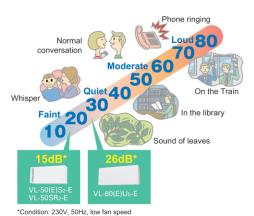
Product advantages

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.



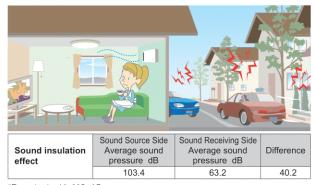
Energy efficient

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

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

Sound insulation

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

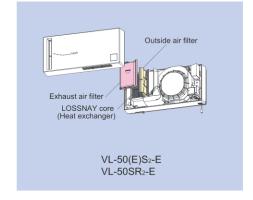


- *Tested using VL-08S2-AE
- *Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.

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.

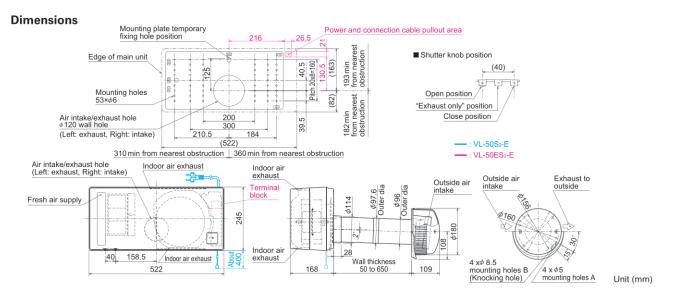


Specifications

VL-50(E)S2-E (VL-50S2-E/Pull-Switch Model, VL-50ES2-E/Wall-Switch Model)

Model	VL-50(E)S₂-E							
Electrical power supply	220V	220V/50Hz		230V/50Hz		50Hz	220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Airflow (m³/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				(С			

^{*}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.

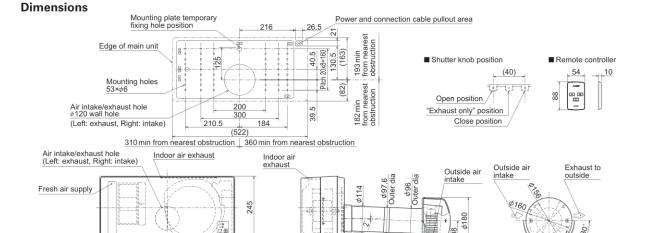


VL-50SR2-E (Remote Controller Model)

Model		VL-50SR₂-E										
Electrical power supply	220V	//50Hz	230V	/50Hz	240V	/50Hz	220V	/60Hz				
Fan speed	High	Low	High	Low	High	Low	High	Low				
Airflow (m³/h)	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	pecific 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.

Indoor air exhaust



mounting holes B (Knocking hole)

mounting holes A

Unit (mm)

Optional Parts

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

Filter, Extension Pipe and Stainless Hood

Туре	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	Stainless Hood
Design	sign				
Model	P-50F ₂ -E	P-50HF ₂ -E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	-	-	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)	G3	-	_	_	-
Classification (ISO16890)	Coarse 35%	ePM10 75%	-	_	-

Compatible table

Commercial

Optional Parts List

										ш	ш	ш	¥.	Ä.	Э <u>-</u> Е					
Optic	nal parts			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-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E	/S-E	/S-E	LGH-100RVS-E	74	3D4
				15R\	.25R\	35R\	.50R\	.65R\	.80R\	100F	160R	200R	160R	.200R	.250R	LGH-50RVS-E	LGH-80RVS-E	100R	GUF-50RD4	GUF-100RD4
		Mo	odel	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	LGH	GUF	GUF
LOSS	SNAY	PZ-62D	R-EA/EB	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
remo	te controller	PZ-43	SMF-E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
			PZ-15RF3-E	•																
		l	PZ-25RF3-E PZ-35RF3-E		•	•														
		PZ-**RF3-E (Coarse 60%	PZ-50RF3-E				•													
		filter)	PZ-65RF3-E					•												
			PZ-80RF3-E						•		•									
	Replacement filter	D7 250TDF F	PZ-100RF3-E							•		•								
		PZ-250TRF-E (Coarse 60% filter)	PZ-250TRF-E										•	•	•					
		PZ-S**RF-E	PZ-S50RF-E													•				
		(Coarse 50% filter)	PZ-S80RF-E														•			
			PZ-S100RF-E PZ-50RF8-E															•	•	
		PZ-**RF8-E (Coarse 35% filter)	PZ-30RF8-E																_	•
		,	PZ-15RFM3-E	•																
			PZ-25RFM3-E		•															
		PZ-**RFM3-E ^{*1}	PZ-35RFM3-E			•														
		(M6 filter)	PZ-50RFM3-E				•													
			PZ-65RFM3-E					•												
	High-efficiency		PZ-80RFM3-E PZ-100RFM3-E						•	•	•	•								
	filter	PZ-250TMFR-E	PZ-250TMFR-E										•	•	•					
		(M6 filter)	PZ-S50RFM-E													•				
		PZ-S**RFM-E (ePM10 80% filter)	PZ-S80RFM-E														•			
Filter			PZ-S100RFM-E	Access of the														•		
		PZ-**RFM-E (ePM10 75% filter)	PZ-50RFM-E																•	
			PZ-100RFM-E																	•
			PZ-15RFP3-E	•																
			PZ-25RFP3-E PZ-35RFP3-E		•	•														
		PZ-**RFP3-E (ePM1	PZ-50RFP3-E			_	•													
		75% filter)	PZ-65RFP3-E					•												
			PZ-80RFP3-E						•		•									
			PZ-100RFP3-E							•		•								
			PZ-15RFH3-E	•																
			PZ-25RFH3-E PZ-35RFH3-E		•															
	Advanced	PZ-**RFH3-E*1	PZ-50RFH3-E			•	•													
	high-efficiency filter	(F8 filter)	PZ-65RFH3-E					•												
	· · · · · · · · · · · · · · · · · · ·		PZ-80RFH3-E						•		•									
			PZ-100RFH3-E							•		•								
		PZ-250TPF-E (ePM1 75% filter)	PZ-250TPF-E										•	•	•					
		PZ-250THFR-E ¹¹ (F8 filter)	PZ-250THFR-E										•	•	•					
		PZ-S**RFH-E	PZ-S50RFH-E													•				
		(ePM1	PZ-S80RFH-E														•			
		65% filter)	PZ-S100RFH-E															•		
		PZ-**RFP2-E	PZ-50RFP2-E																•	
		(ePM1 75% filter)	PZ-100RFP2-E CSD-E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
(CO₂ sensor		CSW-E			•	•		•	•	•	•			•			•		
Verti	cal installation		IVS-E	•	•	•	•													
	plates	PZ-2	2VS-E					•	•	•										
Signa	l output terminal		GS-E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
		PZ-100SS-E		•																
D	uct silencer	PZ-150SS-E PZ-200SS-E			•	•	•	•								•			•	
		PZ-200SS-E PZ-250SS-E					-		•	•	•	•					•	•	_	•
			h RITE (Regulation of	Thorn	a al Inai	l	no of D	ا						l maderat					of piece	_

^{*1:} Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings) Note: Please refer to each product page for required number of pieces/sets.

Residential

Optional Parts for VL-CZPVU Series

				VU-R/L-E	VU-R/L-E	VU-R/L-E
Optional part	is	h	Model	VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
748888			P-250F-E	•		
	Replacement filter (Coarse 55% filter)	P-**F-E	P-350F-E		•	
			P-500F-E			•
			P-250SF-E	•		
	Standard filter (Coarse 90% filter)	P-**SF-E	P-350SF-E		•	
			P-500SF-E			•
			P-250MF-E	•		
	Medium-efficiency filter (ePM10 80% filter)	P-**MF-E	P-350MF-E		•	
File.	(8. 11.10 00 70 111.01)		P-500MF-E			•
Filter			P-250PF-E	•		
	PM2.5 filter (ePM2.5 50% filter)	P-**PF-E	P-350PF-E		•	
	(01 1112.0 00 // 11110.1)		P-500PF-E			•
			P-250PFH-E	•		
	PM1 filter (ePM1 55% filter)	P-**PFH-E	P-350PFH-E		•	
	(cr iii' co / iiicci /		P-500PFH-E			•
			P-250NF-E	•		
	NOx filter	P-**NF-E	P-350NF-E		•	
			P-500NF-E			•
			P-250SB-E	•		
	Silencer box	P-**SB-E	P-350SB-E		•	
			P-500SB-E			•
RC c	over (remote controller cover)	P-	RCC-E	•	•	•

^{*}These optional parts are only compatible with models that have a serial number of 25010001 or later.

Optional Parts for VL-50

Optional parts			50S ₂ -E	50ES2-E	50RS ₂ -E
		Model	VL-5	VL-5	VL-5
Filter	Replacement filter	P-50F2-E (G3 Filter)	•	•	•
Filter	High efficiency rilter	P-50HF2-E (ePM10 75% Filter)	•	•	•
	Extension pipe	P-50P-E	•	•	•
	Pipe extension joint	P-50PJ-E	•	•	•
	Stainless hood	P-50VSQ5-E	•	•	•