IOSSNAY SYSTEM







SELECTION

GUF Series

(Lossnay with Dx-Coil Unit) Heat recovery units with a heating and cooling system that uses the City Multi outdoor units as a heat source.

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

PRODUCT LINEUP

	Loss	snay						
Energy Recovery Ventilation	Heat Recove	ry Ventilation	Energy Recovery Ventilation					
	Centralized Ventilation		Decentralized Ventilation					
Ceiling C	Ceiling Concealed Vertical Type							
LGH-RVX Series A commercially oriented system that can be used to deliver high performance and functions virtually anywhere. LGH-RVXT Series Thin, large airflow models of the LGH series that deliver high performance and functions.	LGH-RVS Series Sensible heat models of the LGH series that can also be installed in sanitary areas.	VL-CZPVU Series Vertical type for residential use. Centralized ventilation with sensible heat exchange.	VL-100(E)U5-E Wall mounted models. Particularly suitable for houses and small offices. VL-50(E)S2-E VL-50SR2-E					

Dx-coil unit	Remote	controller								
For Lossnay LGH-RVX/RVXT Series	For LGH-RVX/RVXT/RVS Series									
GUG Series Temperature control equipment that works with	PZ-62DR-EA/EB	PZ-43SMF-E								
Lossnay units and Mr.Slim outdoor units.	Actor or and a second or a sec	Anne								

LOSSNAY LINEUP

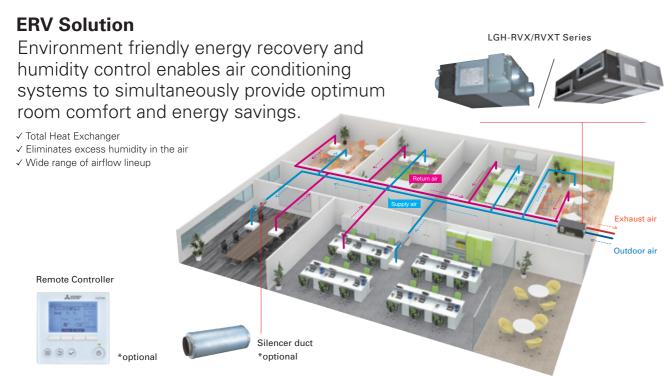
Applica	ation	Model	Airflow	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	2000 CMH	2500 CMH
		LGH-RVX Series				•	•	•	•	•	•	•	•		
<u> </u>	aled	LGH-RVXT Series											•	•	•
Centralized Ventilation	Concealed	LGH-RVS Series	-						•		•	•			
lized Ve	Ceiling	GUF Series							•			•			
Centra		GUG Series (Dx-coil unit for Lossnay LGH-RVX/RVXT Series)	•						•	•	•	•	•	•	•
	Vertical Type	VL-CZPVU Series					•	•	•						
alized	l mounted Type	VL-100(E)U5-E			•										
Decentralized Ventilation	Wall mo	VL-50(E)S ₂ -E VL-50SR ₂ -E		•											

Commercial Use Lossnay

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

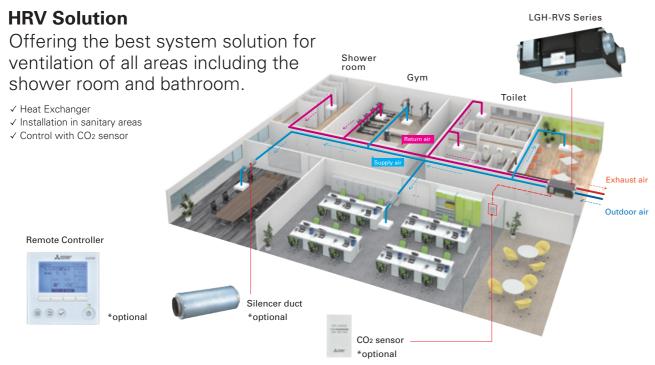
Energy Recovery Ventilation

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



Heat Recovery Ventilation

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



Residential Use Lossnay

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

Heat Recovery Ventilation

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

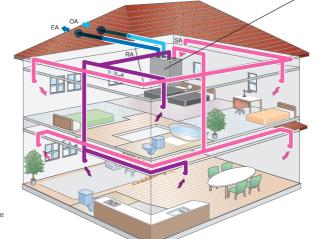
Centralized Ventilation Solution

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



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











Energy Recovery Ventilation

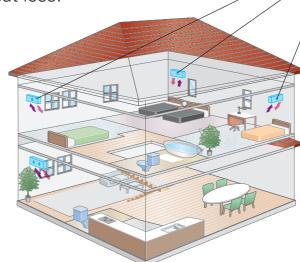
A total heat exchange ventilation system that uses paper characteristics (Lossnay Core) to perform temperature (Sensible heat) and humidity (latent heat) exchange.

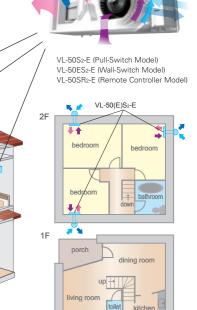
Decentralized Ventilation Solution

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

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

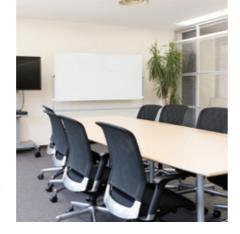






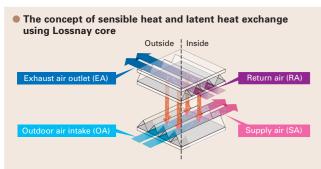
LOSSNAY

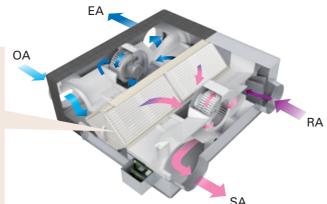
Lossnay ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



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

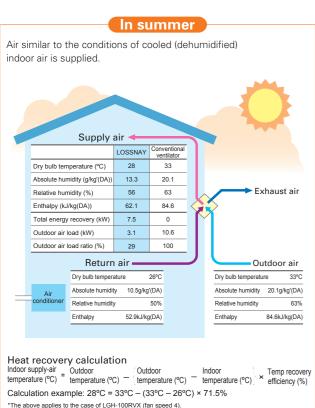
Lossnay is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

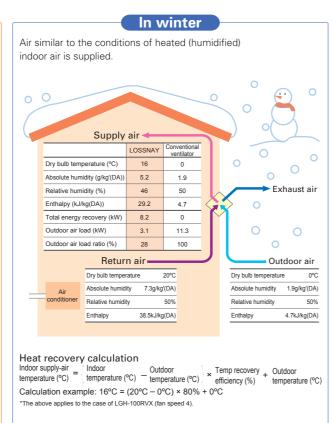




What can be improved by introducing Lossnay?

Ventilation with maximized comfort





LGH-RVX s

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

LGH-15/25/35/50/65/80/100/150RVX-E

S ah performance and

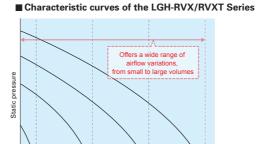
Improved airflow range

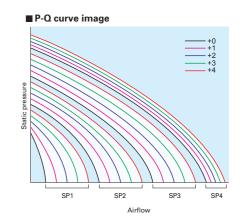
Wide airflow range

Each fan speed has a range setting of 25, 50, 75 and 100%, allowing much finer airflow control. When used in combination with the CO₂ sensor or timer function, airflow can be controlled according to conditions that realize better performance and reduce power consumption.

Fan speed adjustment function

- The default fan speed value can be adjusted in slight increments. Use the PZ-62DR-EA/EB remote controller to reset the speed.
- 1) Considering the total hours of Lossnay operation (filter clogging), fan power can be adjusted automatically after a given period of time.
- 2) After the unit is installed, fine adjustments can be made if the airflow is slightly lower than the desired airflow.





LGH-RVXT SERIE

SERIES

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

LGH-150/200/250RVXT-E



Thin body type

■ LGH-150/200/250RVXT-E

■ LGH-150/200/250RVXT-E

■ LGH-RVXT installation image

| Solution | Solu

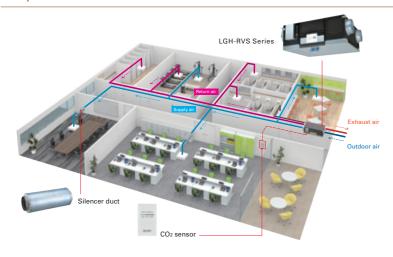
LGH-RVS SERIES

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

LGH-50/80/100RVS-E



A system solution for all-area ventilation



A sensible heat exchanger allows ventilation of all areas including sanitary area.

- Plug and play CO2 sensor control including power
- Digital commissioning of fan speed increments
- Built-in condensate drainage traps

Easy installation

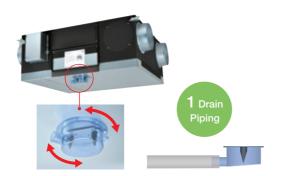
Light Chassis

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



Easy Drain Piping

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



Various optional parts

The LGH-RVS series can connect with various optional parts. A 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 condensation in the room. Optimized ventilation can reduce the energy consumption of the air conditioner. A high-efficiency filter can be optionally installed in the unit as an easy solution for even better indoor air quality.



GUF SERIES



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

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

These units can be used with R410A.

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

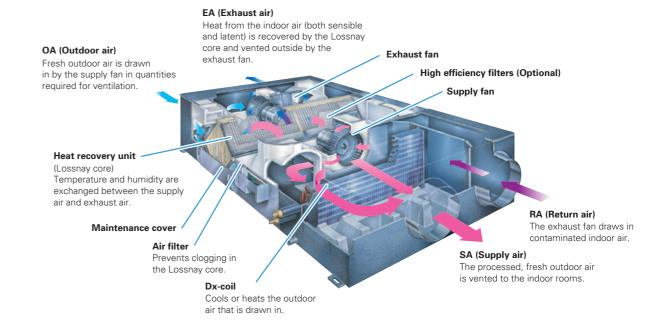
R410A refrigerant units

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

GUF-RD type



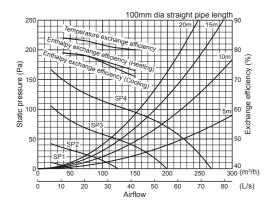
LGH-RVX SERIES

Specifications

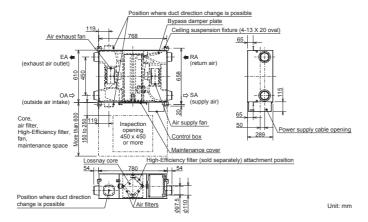
LGH-15RVX-E

Electrical power supply				2:	20-240V/50H	lz, 220V/60H	-lz		
Ventilation mode			Heat recov	very mode			Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.40	0.24	0.15	0.10	0.41	0.25	0.15	0.10
Input power (W)	(m ³ /h)	49	28	14	7	52	28	14	8
Airflow	113	75	38	150	113	75	38		
All Hove	(L/s)	42	31	21	10	42	31	21	10
External static pressure (Pa)		95	54	24	6	95	54	24	6
Temperature exchange efficiency (%)	80	81	83	84	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	73	75.5	78	79	-	-	-	-
Littialpy exchange efficiency (70)	Cooling	71	74.5	78	79	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	nber) 28 24 19 17 29 24 19						18	
Weight (kg)		20							
Specific energy consumption class					,	Α			

Characteristic Curves



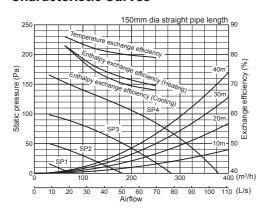
Dimensions



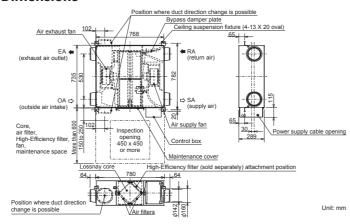
LGH-25RVX-E

Electrical power supply		220-240V/50Hz, 220V/60Hz								
Ventilation mode			Heat recov	very mode	20 240 1/001	12, 220 1/001		s mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		0.48	0.28	0.16	0.10	0.48	0.29	0.16	0.11	
Input power (W)		62	33	16	7.5	63	35	17	9	
Airflow	(m ³ /h)	250	188	125	63	250	250 188 125 6			
All HOW	(L/s)	69	52	35	17	69	52	35	17	
External static pressure (Pa)		85	48	21	5	85	48	21	5	
Temperature exchange efficiency (%)	79	80	82	86	-	-	-	-	
Enthalpy exchange efficiency (%)	Heating	69.5	72	76	83	-	-	-	-	
Littralpy exchange efficiency (76)	Cooling	68	70	74.5	83	-	-	-	-	
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	27	22	20	17	27.5	27.5 23 20 17			
Weight (kg)		23								
Specific energy consumption class		A								

Characteristic Curves



Dimensions



- ■For LGH-RVX and LGH-RVXT series

 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

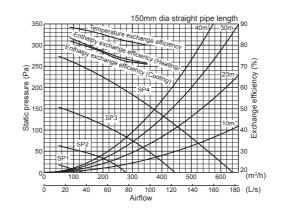
 *Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

 *For specifications at other frequencies, contact your dealer.

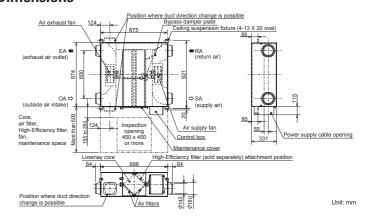
LGH-35RVX-E

Electrical power supply				2	20-240V/50H	tz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode Bypass mode							
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		0.98	0.54	0.26	0.12	0.98	0.56	0.28	0.13
Input power (W)		140 70 31 11 145 72 35					13		
Airflow	(m³/h)				88	350	263	175	88
All How	(L/s)	97	73	49	24	97	73	49	24
External static pressure (Pa)		160	90	40	10	160	90	40	10
Temperature exchange efficiency (%)	80	82.5	86	88.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	71.5	74	78.5	83.5	-	-	-	-
Littialpy exchange efficiency (%)	Cooling	71 73 78 82				-			
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	er) 32 28 20 17 32.5 28 20					18		
Weight (kg)		30							

Characteristic Curves



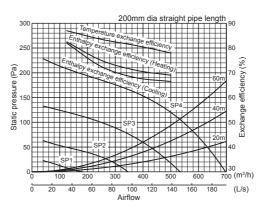
Dimensions



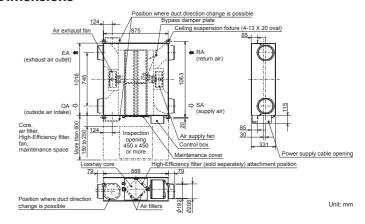
LGH-50RVX-E

Electrical power supply				2:	20-240V/50H	Hz, 220V/60H	Hz		
Ventilation mode			Heat recov	very mode			Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.15	0.59	0.26	0.13	1.15	0.59	0.27	0.13
Input power (W) 165 78 32 12 173 81 35						14			
Airflow	(m ³ /h)	500 375 250 125 500 375 250		125					
All llow			69	35					
External static pressure (Pa)		120	68	30	8	120	68	30	8
Temperature exchange efficiency (%)	78	81	83.5	87	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	69	71	75	82.5	-	-	-	-
Entitiality exchange efficiency (70)	Cooling 66.5 68 72.5 82		-	-					
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	34	28	19	18	35	29	20	18
Weight (kg) 33									

Characteristic Curves



Dimensions



- For LGH-RVX and LGH-RVXT series

 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

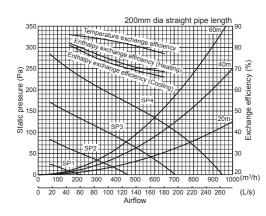
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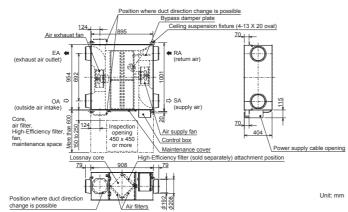
LGH-65RVX-E

Electrical power supply				2:	20-240V/50H	lz, 220V/60H	łz			
Ventilation mode			Heat recov	very mode			Bypass	mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		1.65	0.90	0.39	0.15	1.72	0.86	0.38	0.16	
Input power (W)		252	131	49	15	262 131 47 1				
Airflow	(m ³ /h)	650	488	325	163	650			163	
All Hove	(L/s)	181	135	90	45	181	135	90	45	
External static pressure (Pa)		120	68	30	8	120	68	30	8	
Temperature exchange efficiency (%)	77	81	84	86	-	-	-	-	
Enthalpy exchange efficiency (%)	Heating	68.5	71	76	82	-	-	-	-	
Littialpy exchange efficiency (70)	Cooling	66	69.5	74	81	-	-	-	-	
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	34.5	29	22	18	35.5	35.5 29 22 18			
Weight (kg)		38								

Characteristic Curves



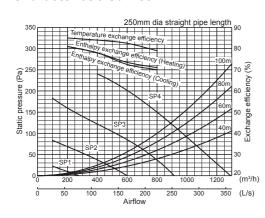
Dimensions



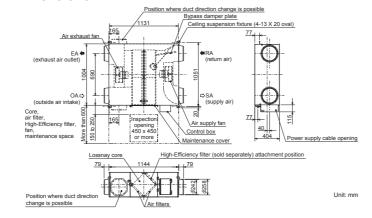
LGH-80RVX-E

Electrical power supply				2:	20-240V/50H	tz, 220V/60H	-lz		
Ventilation mode			Heat recov	very mode			Bypass	mode	
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		1.82	0.83	0.36	0.15	1.97	0.86	0.40	0.15
Input power (W)						20			
Airflow	(m ³ /h)	800	600	400	200	800	600 400		200
All Hove	(L/s) 222 167 111 56		222	167	111	56			
External static pressure (Pa)		150	85	38	10	150	85	38	10
Temperature exchange efficiency (%)	79	82.5	84	85	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	71	73.5	78	81	-	-	-	-
Cooling		70	72.5	78	81	-	-	-	-
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	34.5	30	23	18	36	30	23	18
Weight (kg)		48							

Characteristic Curves



Dimensions



- ■For LGH-RVX and LGH-RVXT series

 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

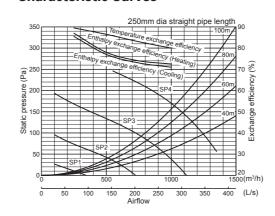
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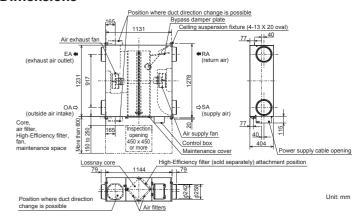
LGH-100RVX-E

Electrical power supply				2	20-240V/50H	Hz, 220V/60H	Нz			
Ventilation mode			Heat recov	very mode			Bypass	mode		
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		2.50	1.20	0.50	0.17	2.50	1.20	0.51	0.19	
Input power (W)		420 200 75 21 420 200 75						23		
Airflow	(m ³ /h)	1000	750	500	250	1000				
All HOVV	(L/s)	278	208	139	69	278	208			
External static pressure (Pa)		170	96	43	11	170	96	43	11	
Temperature exchange efficiency (%)	80	83	86.5	89.5	-	-	-	-	
Enthalpy exchange efficiency (%)	Heating	72.5	74	78	87	-	-	-	-	
Littialpy exchange efficiency (76)	Cooling	71	73	77	85.5	-	-	-	-	
Noise (dB) (Measured at 1.5m under	the center of the unit in an anechoic chamber)	37	31 23 18 38 32 24 1				18			
Weight (kg)		54								

Characteristic Curves



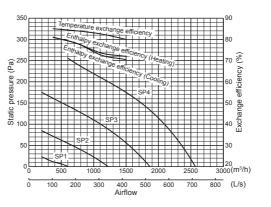
Dimensions



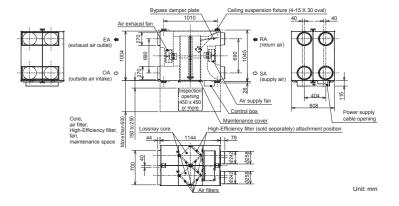
LGH-150RVX-E

Electrical power supply				2	20-240V/50H	lz, 220V/60H	Ηz			
Ventilation mode		Heat recovery mode Bypass mode								
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		3.71	1.75	0.70	0.29	3.85	1.78	0.78	0.30	
Input power (W)		670	311	123	38	698	311	124	44	
Airflow (m³/h)			1125	750	375	1500	1125	750	375	
Airflow (L/s)		417	313	208	104	417	313	208	104	
External static pressure (Pa)		175	98	44	11	175	98	44	11	
Temperature exchange efficiency (%)	80	82.5	84	85	-	-	-	-	
Enthalpy exchange efficiency (%)	Heating	72	73.5	78	81	-	-	-	-	
Cooling		70.5	72.5	78	81	-	-	-	-	
Noise (dB) (Measured at 1.5m under	ise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber) 39 32 24 18 40.5 33 26					18				
Weight (kg)		98								

Characteristic Curves



Dimensions



- For LGH-RVX and LGH-RVXT series

 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

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

 *For specifications at other frequencies, contact your dealer.

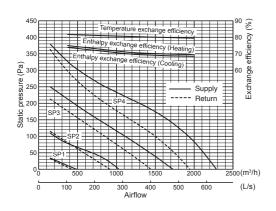
LGH-RVXT SERIES

Specifications

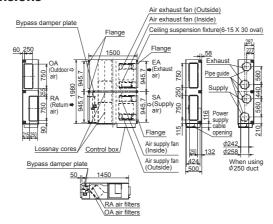
LGH-150RVXT-E

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
All How	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (1 a)	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	-	-	-	-
Littialpy exchange efficiency (70)	Cooling	69	70	72	74	-	-	-	-
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			35.5	29.5	22	39	33	26.5	20.5
Weight (kg)		156							

Characteristic Curves



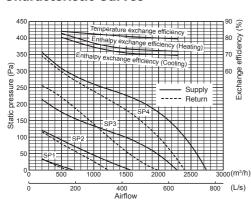
Dimensions



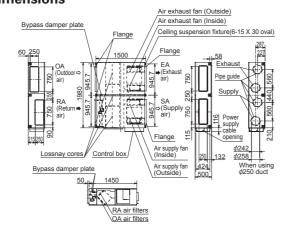
LGH-200RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode	Heat recovery mode Bypass mode								
Fan speed	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		5.40	2.70	1.10	0.39	5.00	2.20	0.85	0.34
Input power (W)	1000	494	197	56	916	407	150	45	
Airflow	(m ³ /h)	2000	1500	1000	500	2000	1500	1000	500
	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (i a)	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	-	-	-	-
Entirally exchange eniciency (76)	Cooling	70	71	74.5	80.5	-	-	-	-
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			35.5	28	22	40.5	34.5	27	20.5
Weight (kg)			159						

Characteristic Curves



Dimensions

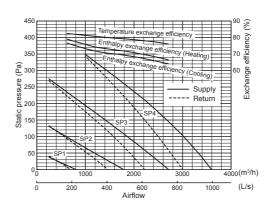


255

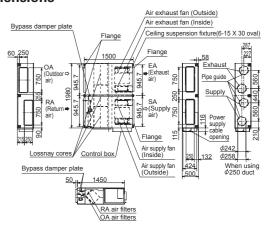
LGH-250RVXT-E

EGII EGGII VALI E											
Electrical power supply		220-240V/50Hz, 220V/60Hz									
Ventilation mode	Ventilation mode					Heat recovery mode Bypass mode					
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
Running current (A)	7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49			
Input power (W)	1446	687	244	82	1298	587	212	69			
Airflow	(m ³ /h)	2500	1875	1250	625	2500	1875	1250	625		
All HOW	(L/s)	694	521	347	174	694	521	347	174		
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11		
External static pressure (i a)	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	-	-	-	-		
Entrialpy exchange efficiency (%)	Cooling	65.5	69	71.5	76.5	-	-	-	-		
Noise (dB) (Measured at 1.5m under	Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			32	24	44	38.5	31	22.5		
Weight (kg)	Weight (kg)			198							

Characteristic Curves



Dimensions



- ■For LGH-RVX and LGH-RVXT series

 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

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

 *For specifications at other frequencies, contact your dealer.

[■]For LGH-RVX and LGH-RVXT series

*The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz, and 220V/60Hz.

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

*For specifications at other frequencies, contact your dealer.

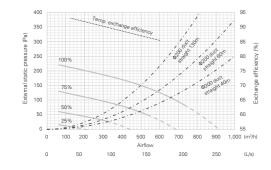
LGH-RVS SERIES

Specifications

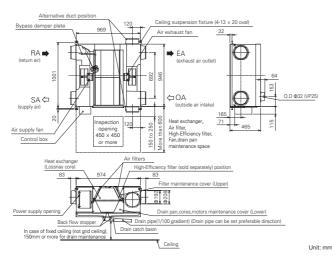
LGH-50RVS-E

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							
A1.51	(m ³ /h)	500	375	250	125			
Airflow	(L/s)	139	104	69	35	ISO 16494		
Specific fan power [W/(L/s]	1.37	1.06	0.86	0.72	Temp. exchange efficiency is winter condition		
External static pressure	Pa)	150	84	38	9			
Temperature exchange efficiency (%)		87.0	89.0	91.0	93.0			
Noise (dB)		33.0	27.0	22.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber		
Exhaust air transfer ratio (%)	5				Tracer gas method @100% airflow (prEN308)		

Characteristic Curves



Dimensions

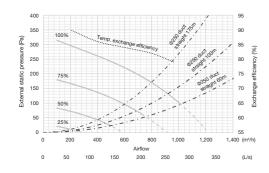


LGH-80RVS-E

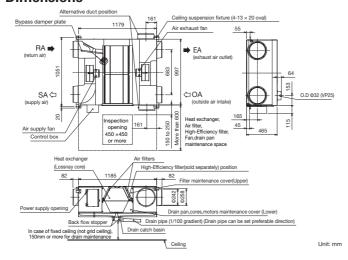
Weight						63kg (77kg with maximum drain water)		
Electrical power supply		220-240V/50Hz, 220V/60Hz						
Fan speed		100%	75%	50%	25%	Test condition		
Input power (W)		325	175	85	32			
AT GL	(m ³ /h)	800	600	400	200			
Airflow	(L/s)	222	167	111	56	ISO 16494		
Specific fan power [W/(L/s)]	1.46	1.05	0.77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

Characteristic Curves

257



Dimensions

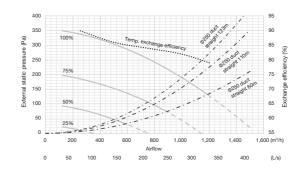


■The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494. When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter. ■The absolute humidity of RA shall be lower than 0.0138kg/kg (DA) in winter and relative humidity of RA shall be lower than 90%RH through the year. Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

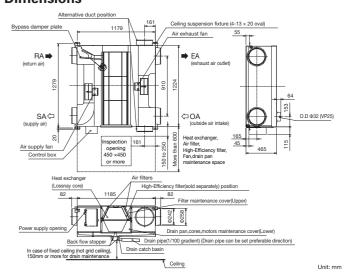
LGH-100RVS-E

Weight						73kg (89kg with maximum drain water)		
Electrical power supply		220-240V/50Hz, 220V/60Hz						
Fan speed		100%	75%	50%	25%	Test condition		
Input power (W)	ut power (W) 445		225	100	35			
A1.61.	(m ³ /h)	1000	750	500	250			
Airflow	(L/s)	278	208	139	69	ISO 16494		
Specific fan power [W/(L/s)]	1.60	1.08	0.72	0.50	Temp. exchange efficiency is winter condition		
External static pressure	Pa)	190	107	48	12			
Temperature exchange e	fficiency (%)	82.0	84.0	86.0	90.0			
Noise (dB)		37.0	32.0	24.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber		
Exhaust air transfer ratio (%)		5				Tracer gas method @100% airflow (prEN308)		

Characteristic Curves



Dimensions



- ■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.

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

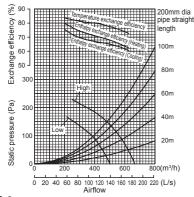
GUF SERIES

Specifications

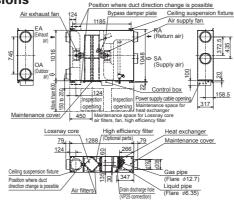
GUF-50RD4

Electrical power supp	ly			220-240)V/50Hz			
Ventilation mode			Heat reco	Heat recovery mode Bypass mode				
Fan speed			High	Low	High	Low		
Running current (A)			1.15	0.70	1.15	0.70		
Input power (W)			235-265	150-165	235-265	150-165		
Airflow		(m ³ /h)	500	400	500	400		
All HOW		(L/s)	139	111	139	111		
External static pressure (Pa)			140	90	140	90		
Temperature exchange efficiency (%)			77.5	80	-	-		
Enthalpy exchange ef	ficionay (9/)	Heating	68	71	-	-		
Entirally exchange en	licieticy (76)	Cooling	65	67	-	-		
Cooling capacity (kW)			5.57 (1.94)					
Heating capacity (kW))		6.21 (2.04)					
Capacity equivalent to	the indoor unit		P32					
	Humidifying			-	-			
Humidifier	Humidifying cap	acity (kg/h)		-	-			
	Water supply pre	essure		-	-			
Noise (dB) (Measur	Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			29.5-30.5	35-36	29.5-30.5		
Weight (kg)			48					

Characteristic Curves



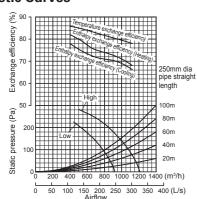




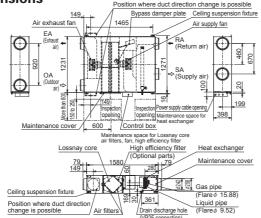
GUF-100RD4

Electrical power suppl	ly			220-240	0V/50Hz			
Ventilation mode			Heat reco	very mode	Bypass	s 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		
AIITIOW		(L/s)	278	222	278	222		
External static pressur	External static pressure (Pa)			90	140	90		
Temperature exchange	Temperature exchange efficiency (%)			81.5	-	-		
Enthalpy exchange eff	ficioney (%)	Heating	71	74	-	-		
Littialpy excitatinge en	ilciency (70)	Cooling	69	71	-	-		
Cooling capacity (kW)			11.44 (4.12)					
Heating capacity (kW))		12.56 (4.26)					
Capacity equivalent to	the indoor unit		P63					
	Humidifying			-	-			
Humidifier	Humidifying cap	acity (kg/h)		-	-			
	Water supply pr	essure		-	-			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			38-39 34-35 38-39 35-30					
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/5°C WB

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

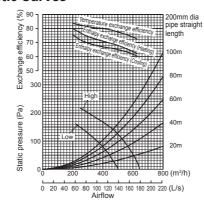
 *Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.

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

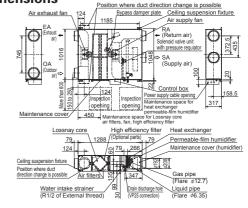
GUF-50RDH4

Electrical power supp	oly			220-240)V/50Hz			
Ventilation mode			Heat recov	very 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		(m³/h)	500	400	500	400		
AITIOW		(L/s)	139	111	139	111		
External static pressure (Pa)			125	80	125	80		
Temperature exchange efficiency (%)			77.5	80	-			
Enthalpy exchange ef	ficiona, (9/)	Heating	68	71	-	-		
Entitalpy exchange er	inciency (70)	Cooling	65	67	-	-		
Cooling capacity (kW))		5.57 (1.94)					
Heating capacity (kW))		6.21 (2.04)					
Capacity equivalent to	the indoor unit		P32					
	Humidifying		Permeable film humidifier					
Humidifier	Humidifying cap	acity (kg/h)		2.7 (heating)				
	Water supply pr	essure	Minimum	pressure : 2.0 × 10 ⁴ Pa	Maximum pressure : 49.0	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

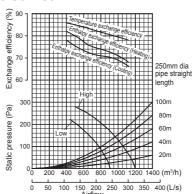


GUF-100RDH4

Electrical power supp	oly			220-240	OV/50Hz		
Ventilation mode			Heat reco	very mode	Bypass	s 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		(m³/h)	1000	800	1000	800	
All IIOW		(L/s)	278	222	278	222	
External static pressure (Pa)			135	86	135	86	
Temperature exchange efficiency (%)			79.5	81.5	-	-	
Enthalpy exchange ef	fficiency (%)	Heating	71	74	-	-	
Littialpy excitatige et	iliciericy (70)	Cooling	69	71	-	-	
Cooling capacity (kW)		11.44 (4.12)				
Heating capacity (kW	7)		12.56 (4.26)				
Capacity equivalent to	o the indoor unit		P63				
	Humidifying			Permeable fi	lm humidifier		
Humidifier	Humidifying cap	pacity (kg/h)		5.4 (he	eating)		
	Water supply pr	essure	Minimum	pressure : $2.0 \times 10^4 Pa$	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 wi	th water 96)		

Dimensions

Characteristic Curves



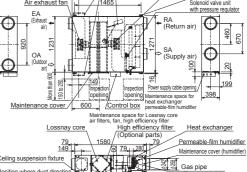
- For GUF series

 *Cooling/Heating capacity indicates the maximum value at operation under the following condition.

 Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB
 Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB
 *The figures in () indicates heat recoverying capacity of heat exchange core.

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

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



GUG SERIES

(Optional Dx-coil Unit for Lossnay)

Temperature control equipment that works with Lossnay units and Mr.Slim outdoor units.

GUG-01SL-E (Connection to LGH-50RVX-E or 65RVX-E) GUG-02SL-E (Connection to LGH-80RVX-E or 100RVX-E) GUG-03SL-E (Connection to LGH-150RVX-E, LGH-150/200/250RVXT-E)

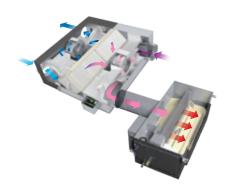


GUG-03SL-E

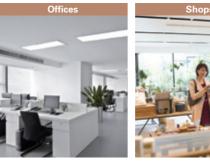
Supply comfortable control

Product Features

- Lossnay return air and supply air temperature control are possible by connecting the Dx-coil unit to Mr.Slim (power inverter series).
- Connecting the Dx-coil unit will expand Lossnay's temperature control range (500-2,500 CMH).
 Suitable for various applications such as offices, shops and schools etc.

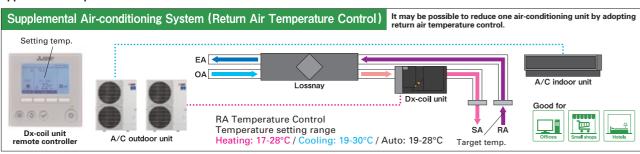


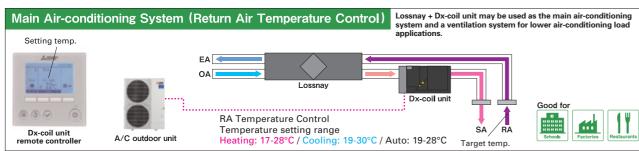
■ Target Applications

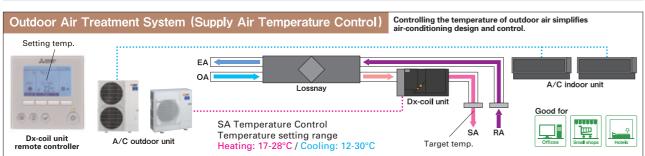




Application Examples





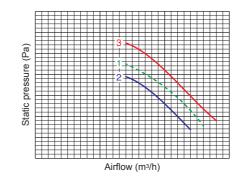


*The above images of using the LGH-RVXT Series are simply examples for reference.

Flexible installation

Flexible Connection to Lossnay

The length of the connection cable (accessory) between the Lossnay and Dx-coil unit is about 6m, so flexible installation is possible (two units can be installed close together or far apart with straight or bent ducting).



To Keep High Static Pressure

P-Q curve image

- 1. Lossnay unit
- 2. Lossnay unit + Dx-coil unit
- 3. Lossnay unit (fan power-up +4) + Dx-coil unit

Dx-coil unit static pressure loss is kept to a minimum, making it possible to maintain high static pressure using the fan power-up function of the Lossnay. The fan power-up function is only available when used with the PZ-62DR-EA/EB Lossnay remote controller.

Drain Pump Equipment

A built-in drain pump makes attaching the drain hose in the ceiling cavity easy, resulting in simple and fast installation.



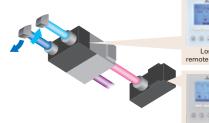
User-friendly system control

Flexible Remote Controller Selection

(A) One remote controller



(B) Two remote controllers



ON/OFF
Fan speed
Vent. mode

Lossnay
remote controller

ON/OFF
Heating/Cooling

Dx-coil unit remote controller

When using only one remote controller, Lossnay fan speed is fixed at fan speed 3 or 4. When using two remote controllers, all Lossnay functions are available.

- *1: Lossnay unit and Dx-coil unit both will synchronously switch on and off.
- *2: When one of the two remote controllers is turned ON, the other remote controller turns ON synchronously.

Priority Mode Selection

Temperature priority mode (factory setting) or Fan speed priority mode are selectable when Lossnay unit fan speed is controlled by a CO₂-sensor or a BMS (analog input (0 - 10 VDC) or a volt-free input).

*During fan speed 1 or 2, the Dx-coil unit is always set to thermo-OFF.

Operation	Fan speed order	Actual fa	n speed	
mode	from external input	Temp. priority	Fan speed priority	
	FS4	FS4	FS4	
Heating	FS3	FS3	FS3	
Cooling	FS2	FS3	FS2	
Cooming	FS1	FS3	FS1	
	FS4	FS4	FS4	
Fan	FS3	FS3	FS3	
rd[]	FS2	FS2	FS2	
	FS1	FS1	FS1	

GUG SERIES **Specifications**



GUG-01SL-E



Refrigerant		R410A				
Electrical power supp	oly	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)				
Input power		Heating / Fan: 2.5W, Cooling: 12.4W				
Running current		Less than 0.1A				
Weight		26kg *Accessories: Approx. 1kg				
		Heating / Cooling / Auto / Fan *Auto is only available for RA temperatu	re control			
Function		RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller]				
		RA (Return Air) to	emperature control			
Connectable Lossna	y unit	LGH-80RVX-E	LGH-100RVX-E			
Consoity [IdM]	Heating	10.0 (4.0 + 6.0)	13.2 (5.1 + 8.1)			
Capacity [kW]	Cooling	8.3 (3.3 + 5.0)	11.3 (4.2 + 7.1)			
SHF		0.69	0.66			
Performance index	Heating	4.62	4.42			
	Cooling	4.76	4.98			
Airflow range at SP3	and SP4	560 - 1200 m³/h	700 - 1200 m³/h			
Connectable outdoor	unit	PUHZ-ZRP50	PUHZ-ZRP71			
Ext. piping		Diameter Liquid / Gas: 6.35 / 12.7	Diameter Liquid / Gas: 9.52 / 15.88			
Ext. piping		Maximum length: 50m, Maximum height: 30m	Maximum length: 50m, Maximum height: 30m			
Required optional pa	rts	PAC-SH30RJ-E and PAC-SH50RJ-E	-			
			emperature control			
Connectable Lecone	Lunit	I CH OUD/IV E	LCH 100D\/Y E			

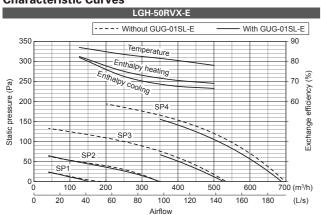
		SA (Supply All) to	imperature control		
Connectable Lossna	y unit	LGH-80RVX-E	LGH-100RVX-E		
Capacity [kW]	Heating	10.0 (4.0 + 6.0)	11.4 (5.1 + 6.3)		
Capacity [KVV]	Cooling	8.3 (3.3 + 5.0)	9.5 (4.2 + 5.3)		
SHF		0.69	0.73		
Performance index	Heating	4.62	5.09		
renormance muex	Cooling	4.76	5.43		
Airflow range at SP3	and SP4	560 - 1200 m³/h	700 - 1200 m³/h		
Connectable outdoor	unit	PUHZ-ZRP50	PUHZ-ZRP50		
Ext. piping		Diameter Liquid / Gas: 6.35 / 12.7	Diameter Liquid / Gas: 6.35 / 12.7		
Ext. pipirig		Maximum length: 50m, Maximum height: 30m	Maximum length: 50m, Maximum height: 30m		
Required optional pa	rts	PAC-SH30RJ-E and PAC-SH50RJ-E	PAC-SH30RJ-E and PAC-SH50RJ-E		

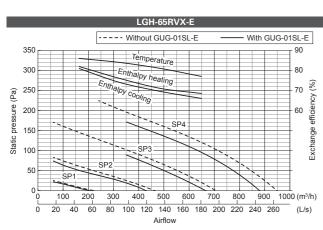
		Ventilation specifications										
	Connectable Lossnay		LGH-100RVX-E									
	Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1		
	Airflow	[m ³ /h]	800	600	400	200	1,000	750	500	250		
		[L/s]	222	167	111	56	278	208	139	69		
	External static pressu	ıre [Pa]	130	73	33	8	130	73	33	8		

GUG-01SL-E (Connection to LGH-50RVX-E or LGH-65RVX-E)

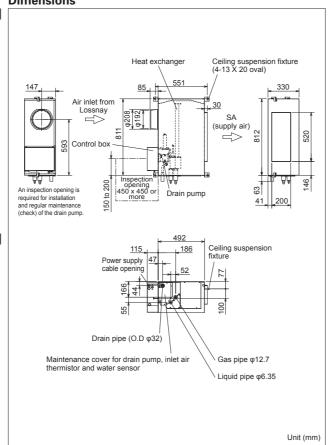
	R410A										
ly	220-240V / 50Hz	220V / 60Hz (Sup	plied from outdoor	unit)							
	Heating / Fan: 2.5	W, Cooling: 12.4W	/								
	Less than 0.1A										
	21kg *Accesso	ries: Approx. 1kg									
	Heating / Cooling	/ Auto / Fan *Au	ito is only available	for RA temperatur	re control						
	RA (Return Air) to										
				RA (Return Air) to	emperature control						
unit		LGH-50	DRVX-E			LGH-6	5RVX-E				
Heating		6.5 (2.4	4 + 4.1)		7.7 (3.2 + 4.5)						
Cooling		5.6 (2.0	0 + 3.6)			6.6 (2.0	6 + 4.0)				
		0.0	66			0.	69				
Heating		4.0	09			4.	72				
Cooling		4.0	69		5.03						
and SP4		350 - 69	95 m³/h		350 - 900 m³/h						
unit		PUHZ-	ZRP35		PUHZ-ZRP35						
		Diameter Liquid	I / Gas: 6.35 / 12.7		Diameter Liquid / Gas: 6.35 / 12.7						
	Max	imum length: 50m,	Maximum height:	30m	Maximum length: 50m, Maximum height: 30m						
				Ventilation s	pecifications						
	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1			
[m³/h]	500	375	250	125	650	488	325	163			
[L/s]	139	104	69	35	181	135	90	45			
re [Pa]	105	59	26	7	95	53	24	6			
	unit Heating Cooling Heating Cooling and SP4 unit [m³/h] [L/s]	y 220-240V / 50Hz,	220-240V / 50Hz, 220V / 60Hz (Sup Heating / Fan: 2.5W, Cooling: 12.4W Less than 0.1A	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor Heating / Fan: 2.5W, Cooling: 12.4W	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)	220-240V / 50Hz, 220V / 60Hz (Supplied from outdoor unit)	Y	Y			

Characteristic Curves

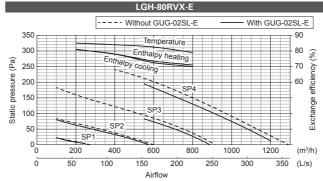


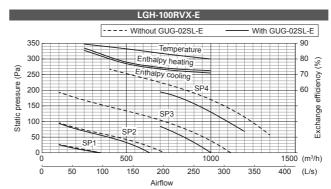


Dimensions

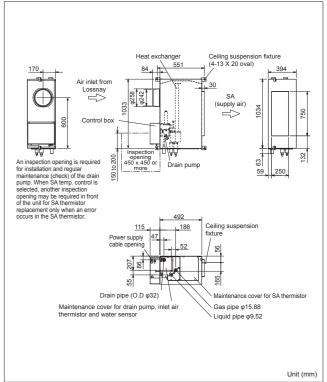


Characteristic Curves





Dimensions



264

GUG-02SL-E

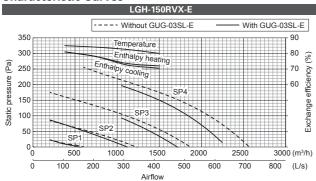


GUG-03SL-E

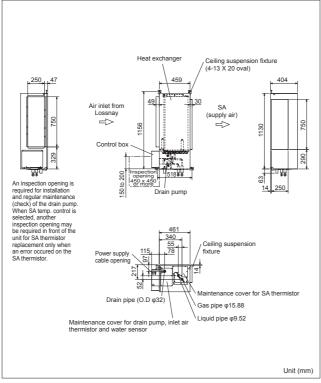
GUG-03SL-E (Connection to LGH-150RVX-E)

Refrigerant		R410A							
Electrical power supp	oly	220-240V / 50Hz, 220V / 60Hz (Sup	plied from outdoor unit)						
Input power		Heating / Fan: 2.5W, Cooling: 12.4W	1						
Running current		Less than 0.1A							
Weight		28kg *Accessories: Approx. 1kg							
		Heating / Cooling / Auto / Fan *Auto is only available for RA temperature control							
Function		RA (Return Air) temperature control	/ SA (Supply Air) temperature control						
		RA (Return Air) temperature control / SA (Supply Air) temperature control [Must be set at initial setting and not possible to change from remote controller]							
		RA (Return Air) temperature control							
Connectable Lossnay	/ unit		LGH-15	0RVX-E					
Canacity [IAM]	Heating		20.7 (7.7	7 + 13.0)					
Capacity [kW]	Cooling		15.8 (6.	3 + 9.5)					
SHF			0.6	68					
Performance index	Heating		4.2	24					
renormance index	Cooling		5.2						
Airflow range at SP3	and SP4	1050 - 2250 m³/h							
Connectable outdoor	unit	PUHZ-ZRP100							
Ext. piping				/ Gas: 9.52 / 15.88					
Lxt. piping			Maximum length: 75m,						
		SA (Supply Air) temperature control							
Connectable Lossnay	/ unit	LGH-150RVX-E							
Capacity [kW]	Heating	16.6 (7.7 + 8.9)							
, ,, ,	Cooling	13.4 (6.3 + 7.1)							
SHF				85					
Performance index	Heating	5.46							
	Cooling			32					
Airflow range at SP3				250 m³/h					
Connectable outdoor	unit	PUHZ-ZRP71							
Ext. piping		Diameter Liquid / Gas: 9.52 / 15.88							
Ext. piping		Maximum length: 50m, Maximum height: 30m							
		Ventilation specifications							
Connectable Lossnay	/ unit		LGH-15						
Fan speed		SP4	SP3	SP2	SP1				
Airflow	[m³/h]	1,500	1,125	750	375				
	[L/s]	417	313	208	104				
External static pressu	ıre [Pa]	150	84	38	9				

Characteristic Curves



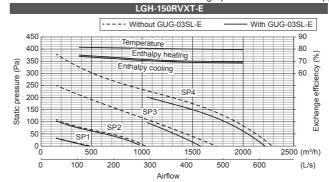
Dimensions

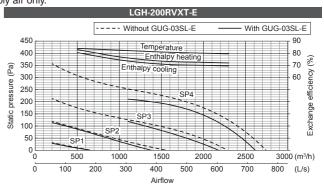


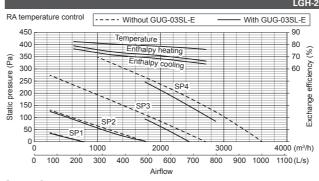
GUG-03SL-E (Connection to LGH-150RVXT-E, LGH-200RVXT-E or LGH-250RVXT-E)

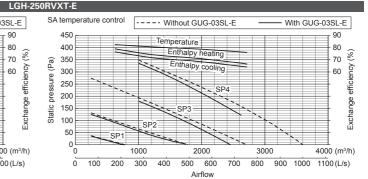
Refrigerant		R410A											
Electrical power supp	oly	220-240V /	50Hz, 220V	/ / 60Hz (Su	oplied from o	utdoor unit)							
Input power		Heating / F	an: 2.5W, Co	ooling: 12.4V	V								
Running current		Less than ().1A										
Weight		28kg *Ac	cessories: A	pprox. 1kg									
		Heating / C	ooling / Auto	/Fan *Aı	uto is only av	ailable for R	A temperatu	re control					
Function		RA (Return [Must be se	Air) temper et at initial se	ature control etting and no	/ SA (Supply t possible to	y Air) temper change from	rature contro n remote con	l troller]					
						RA (F	Return Air) te	emperature c	ontrol				
Connectable Lossnay	/ unit		LGH-150	ORVXT-E			LGH-200	ORVXT-E			LGH-25	0RVXT-E	
Capacity [kW]	Heating		20.4 (7.4	1 + 13.0)			23.8 (10.	3 + 13.5)			26.1 (12	.1 + 14.0)	
	Cooling		15.7 (6.	2 + 9.5)		18.4 (8.4 + 10.0)				22.3 (9.	8 + 12.5)		
SHF				68		0.76						.87	
Performance index Heating 4.07							86				.75		
	Cooling 5.03			5.59				4.59					
	Airflow range at SP3 and SP4 1050 - 2250 m³/h						600 m³/h		1750 - 2880 m³/h				
Connectable outdoor	Connectable outdoor unit PUHZ-ZRP100				PUHZ-2	ZRP100			PUHZ-	ZRP125			
Ext. piping		Diame		/ Gas: 9.52		Diame		/ Gas: 9.52		Diame		/ Gas: 9.52	
Ext. pipirig		Maximum	length: 75m,	Maximum h	neight: 30m		length: 75m,			Maximum	length: 75m	, Maximum h	eight: 30m
			SA (Supply Air) temperature control										
Connectable Lossnay	/ unit	LGH-150RVXT-E			LGH-200RVXT-E			LGH-250RVXT-E					
Capacity [kW]	Heating		16.3 (7.	4 + 8.9)		19.5 (10.3 + 9.2)			21.6 (12.1 + 9.5)				
, ,, ,	Cooling		13.3 (6.	.2 + 7.1)			15.9 (8.5 + 7.4)				17.6 (9	.8 + 7.8)	
SHF			0.	86			0.	90			0.	.95	
Performance index	Heating		5.	16			6.01				5.	.97	
	Cooling			03				54				.31	
Airflow range at SP3	and SP4		1050 - 2	250 m³/h			1050 - 2	600 m³/h			1000 - 2	:600 m ³ /h	
Connectable outdoor	unit		PUHZ-	ZRP71			PUHZ-	ZRP71			PUHZ-	-ZRP71	
Eut piping		Diame	ter Liquid	/ Gas: 9.52	/ 15.88	Diame	eter Liquid	/ Gas: 9.52	15.88	Diame	eter Liquid	/ Gas: 9.52	/ 15.88
Ext. piping		Maximum	length: 50m,	Maximum h	neight: 30m	Maximum	length: 50m,	Maximum h	eight: 30m	Maximum	length: 50m	, Maximum h	eight: 30m
							Ventilation s	pecifications					
Connectable Lossnay	/ unit			ORVXT-E				ORVXT-E		LGH-250RVXT-E			
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Airflow	[m³/h]	1,500	1,125	750	375	2,000	1,500	1,000	500	2,500	1,875	1,250	625
	[L/s]	417	313	208	104	556	417	278	139	694	521	347	174
External static pressu	ıre [Pa]	150	84	38	9	145	82	36	9	140	79	35	9

Characteristic Curves Note The graphs below show the supply air only.









266

Attention

- 1. The running current and input power are based on 230V/50Hz.
- The cooling and heating capacities are based on the air conditions listed below and the rated airflow of fan speed 4. Cooling Indoor: 27°CDB/19°CWB, Outdoor: 35°CDB/24°CWB
- Heating Indoor: 20°CDB/15°CWB, Outdoor: 7°CDB/6°CWB
- 3. The first figure in () of the capacity specification is the heat recovery energy of the Lossnay unit. The second figure is the capacity specification for the Dx-coil connected to the outdoor unit.
- 4. "Performance index" is the calculated value at the temperature conditions above, and is for reference purpose only.

 Performance index = Total capacity ÷ total power consumption of outdoor unit and Lossnay unit
- 5. The external static pressure listed in the tables includes the static pressure loss of the Dx-coil unit when using a 50cm straight duct between the Lossnay and Dx-coil units. When the duct work between the Lossnay and Dx-coil units is longer and/or bent, the pressure loss of the duct work should be included in the pressure loss calculation.
- 6. The designed airflow of the system (Lossnay, Dx-coil and duct work) at fan speed 3 and 4 should be kept within "Airflow range at SP3 and SP4" listed in the tables. This range is shown as the solid line in graphs of the characteristic curves. If the Lossnay airflow is out of this range, the compressor of the outdoor unit may stop for self-protection
- 7. By installing the Dx-coil unit with a Lossnay unit, the air blow noise level is quieter at fan speed 4. Please refer to the "Direct Expansion coil unit for Lossnay" catalog.
- 8. Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit or disassemble the product yourself and always ask a professional.

CONTROL TECHNOLOGIES

New model



PZ-62DR-EA/EB

Multi-language Display

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

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

Compatibility Table

	PZ-62DI	R-EA/EB	PZ-43SMF-E
Function	Acceptance of the control of the con	Amer 130 Line (brend)	25 Lover Lov
	LGH-RVX / RVXT	LGH-RVS	LGH-RVX/RVXT/RVS
Fan speed selection	4 fan speeds	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)	No	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	No
Control with a CO ₂ sensor (Field supply)	Yes (Fan speed automatically changes between 4 levels depending on the CO ₂ concentration)	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	Energy recovery / Bypass / Auto
Night-purge	Yes	Yes	No
Function setting from remote controller	Yes	Yes	No
Bypass temp. free setting	Yes (Set in Function setting menu)	Yes	No
Multi-stage airflow control	No	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	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	Yes	No (English only)
CO ₂ concentration indication	No	Yes (available when using our manufactured CO2 sensor)	No
Filter cleaning sign	Yes	Yes (maintenance interval can be changed)	Yes
Lossnay core cleaning sign	Yes	No	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

*Upper and lower limits may differ when using a CO2 sensor.

Filters & Accessories

Filters For LGH-RVX Series & LGH-RVXT Series & GUF Series

Standard Filters

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



		Filter			Lossnay	
Filter	Classif	ication		Included	A 5 11 11	Required
Material	ISO 16890	EN779 (2012)	Model Name	piece/set	Applicable model	filter pieces
	Coarse 35%	G3*	PZ-15RF ₈ -E	2	LGH-15RVX-E	2
			PZ-25RF ₈ -E	4	LGH-25RVX-E	4
			PZ-35RF ₈ -E	4	LGH-35RVX-E	4
			PZ-50RF ₈ -E	4	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	4
Non-woven	Coarse 35%		PZ-65RF ₈ -E	4	LGH-65RVX-E	4
Fabrics			P7-80RFs-F		LGH-80RVX-E	4
			PZ-8URF8-E	4	LGH-150RVX-E	8
			PZ-100RFs-E	4	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	4
-		G3	PZ-150RTF-E	4	LGH-150RVXT-E	4
	Coarse 50%		PZ-250RTF-E	4	LGH-200RVXT-E, LGH-250RVXT-E	4

^{*}The classification in EN779 (2002) is G3.

High-efficiency Filters Optional

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



			Filter			Lossnay			
	Filter Material	Classification ISO 16890 EN779 (2012)		Model Name	Included piece/set	Applicable model	Required filter pieces		
			211770 (2012)	PZ-15RFM-E	1	LGH-15RVX-E	1		
				PZ-25RFM-E	2	LGH-25RVX-E	2		
				PZ-35RFM-E	2	LGH-35RVX-E	2		
	Synthetic	ePM ₁₀ 75%	M6*	PZ-50RFM-E	2	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	2		
	fiber			PZ-65RFM-E	2	LGH-65RVX-E	2		
				P7-80RFM-F	2	LGH-80RVX-E	2		
				PZ-8URFIVI-E	2	LGH-150RVX-E	4		
				PZ-100RFM-E	2	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	2		

^{*}The classification in EN779 (2002) is F7.

Advanced High-efficiency Filters (For LGH-RVX and GUF Series) Optional

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



		Filter			Lossnay			
Filter	Classif	ication		Included		Required		
Material	ISO 16890	ASHRAE 52.2 (2017)	Model Name	piece/set	Applicable model	filter pieces		
	ePM1 75% ePM2 5 80%		PZ-15RFP ₂ -E	1	LGH-15RVX-E	1		
			PZ-25RFP ₂ -E	2	LGH-25RVX-E	2		
			PZ-35RFP ₂ -E	2	LGH-35RVX-E	2		
Synthetic			PZ-50RFP ₂ -E	2	LGH-50RVX-E, GUF-50RD4, GUF-50RDH4	2		
fiber	ePM ₁₀ 95%	IVILITY TO	PZ-65RFP2-E	2	LGH-65RVX-E	2		
			P7-80RFP2-F	2	LGH-80RVX-E	2		
		-	PZ-OUNFF2-E	2	LGH-150RVX-E	4		
			PZ-100RFP ₂ -E	2	LGH-100RVX-E, GUF-100RD4, GUF-100RDH4	2		

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

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



		Filter			Lossnay				
Filter	Classif		Model Name	Included	Applicable model	Required			
Material	ISO 16890	EN779 (2012)		piece/set	PP	filter pieces			
	ePM ₁₀ 75%	M6*	M6* PZ-M6RTFM-E 3						
Non-woven Fabrics	ePM ₁ 65% ePM _{2.5} 75% ePM ₁₀ 90%	F8*	PZ-F8RTFM-E	3	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	3			
		M6*	PZ-M6TDF-E	3	1				
		F8*	PZ-F8TDF-E	3					

^{*}There is no data for the classification in EN779 (2002)

Filters For LGH-RVS Series

Filters

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



Standard Filter



		Filter			Lossnay			
Filter material	Classif	ication	Model name	Included	A lia - bia del	Required		
Filter material	ISO 16890 (2016)	EN779 (2012)	woder name	piece/set	Applicable model	set/unit		
			PZ-S50RF-E	2	LGH-50RVS-E	1		
Non-woven fabrics	Coarse 50%	G3	PZ-S80RF-E	2	LGH-80RVS-E	1		
			PZ-S100RF-E	2	LGH-100RVS-E	1		

High-efficiency Filter



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

Advanced **High-efficiency Filter**



		Lossnay				
Filter material Class		ication	Model name Included		Applicable model	Required
riiter materiai	ISO 16890 (2016)	EN779 (2012)	Wiodel Harrie	piece/set	Applicable model	set/unit
	ePM10 90%		PZ-S50RFH-E	2	LGH-50RVS-E	1
Pleated filter	ePM2.5 75%	F8	PZ-S80RFH-E	2	LGH-80RVS-E	1
	ePM ₁ 65%		D7-S100DEU-E	2	LGH-100RVS-E	1

Accessories For LGH-RVS Series

CO₂ Sensor

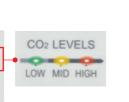
A CO₂ sensor connected directly to a Lossnay RVS unit optimizes the fan speed according to the level of CO2 detected. It improves total heat exchange efficiency and contributes to energy saving.

PZ-70CSW-E (Wall mounted type)

CO₂ levels are indicated by LED lights.

PZ-70CSB-E (Built-in type)







■ Automatic operation with CO₂ sensor and PZ-62DR-E Fan speed automatically changes depending on CO₂ concentration.

Accessories For LGH-RVX/RVS Series & GUF Series

Duct Silencer

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

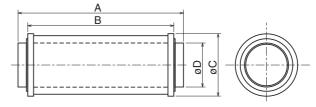


Specifications

Model	Airflow	Attenuation of sound power level [dB] for center frequency (Discharge)									
iviodei	[m ³ /h]	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz		
PZ-100SS-E	50	0	3	5	7	6	6	6	8		
PZ-10033-E	150	0	3	6	7	7	7	7	9		
PZ-150SS-E	250	0	1	5	8	15	21	20	14		
FZ-13033-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		
	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.

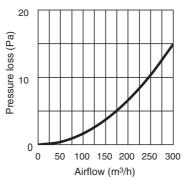
Dimensions



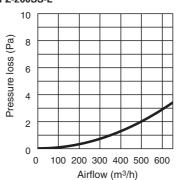
Model	Α	В	С	D	Connecting duct	Weight (kg)
PZ-100SS-E	450	400	152	99	ø100	1.9
PZ-150SS-E	560	500	202	149	ø150	3.5
PZ-200SS-E	660	600	252	199	ø200	5.3
PZ-250SS-E	660	600	332	249	ø250	8.9

Pressure loss curve

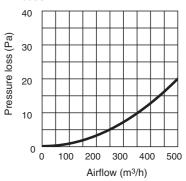
PZ-100SS-E



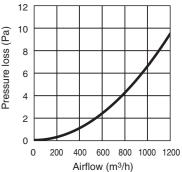
PZ-200SS-E



PZ-150SS-E



PZ-250SS-E



270

VL-CZPVU SERIES

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

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



Key features



Quiet Operation

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

Air Purification

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

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

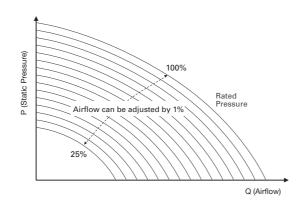
Under regulation (EU) No. 1254/2014, the VL-CZPVU series has the highest energy-saving performance in its class (ErP A+). It saves heating and cooling costs by minimizing the energy loss that occurs during ventilation.





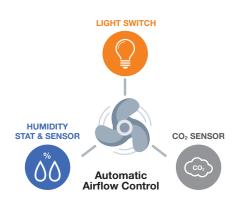
Variable airflow control

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.



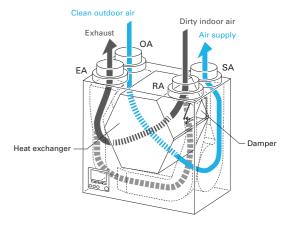
External airflow control

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 and can change to boost operation mode (input 220-240V). These devices are connected directly to the Lossnay unit, allowing automatic fan speed control according to bathroom occupation, 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 range

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

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

MELCloud for Lossnay

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

Key Control and Monitoring Features

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



VL-CZPVU SERIES

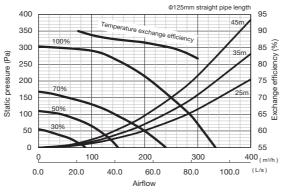
Specifications

VL-250CZPVU-R/L-E

Electrical Power Supply			220-240V/50H	z, 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	(m³/h)	250	250 175 125					
All HOW	(L/s)	69	49	35	21			
External Static Pressure (Pa)	150	74	38	14			
Temperature Exchange Effic	eiency (%)	85	85 87 88					
Noise Level (dB)		31	22	16	15 >			
Energy Efficiency Class			Д	+				
Weight (kg)		26						
Dimensions (mm)			(H) 565 x (W)	595 x (D) 356				

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

Characteristic Curves



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

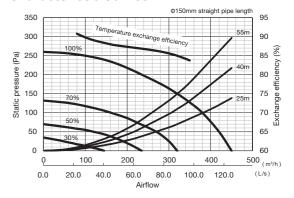
VL-350CZPVU-R/L-E

Electrical Power Supply			220-240V/50H	z, 220V-/60Hz				
Ventilation Mode		Heat recovery mode						
Fan Speed		FS4 (100%)	FS4 (100%) FS3 (70%) FS2 (50%)					
Running Current (A)		1.08	0.52	0.31	0.18			
Input Power (W)		155	71	37	19			
Airflow	(m³/h)	320	224	160	96			
AITIOW	(L/s)	89	62	44	27			
External Static Pressure (Pa))	150	74	38	14			
Temperature Exchange Effici	iency (%)	85 87 88 90						
Noise Level (dB)		35	26	19	15>			
Energy Efficiency Class			А	+				
Weight (kg)			3	2				
Dimensions (mm)			(H) 623 x (W)	658 x (D) 432				

■ Attention

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

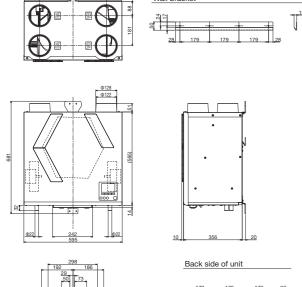
Characteristic Curves

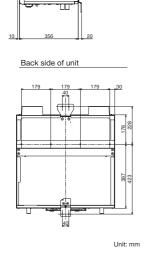


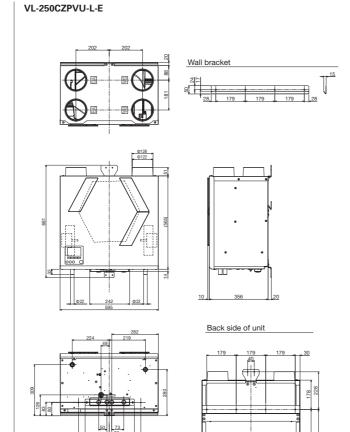
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions

VL-250CZPVU-R-E

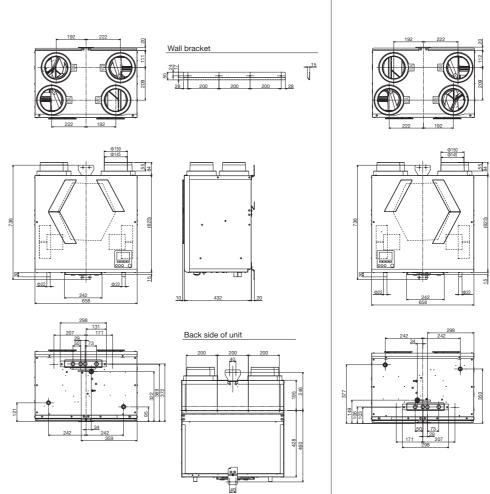






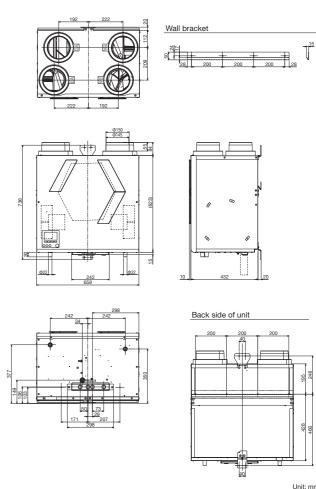
Dimensions

VL-350CZPVU-R-E



Unit: mm

VL-350CZPVU-L-E



Unit: mm

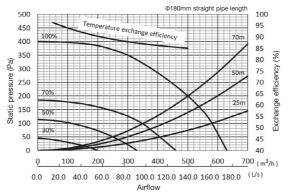
VL-500CZPVU-R/L-E

Electrical Power Supply			220-240V/50H	z, 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			
A: 61	(m³/h)	500	350	250	150			
Airflow	(L/s)	139	97	69	42			
External Static Pressure (Pa	1)	200	200 98 50 18					
Temperature Exchange Effic	iency (%)	85	87	89	92			
Noise Level (dB)		37	29	22	15>			
Energy Efficiency Class			Д	+				
Weight (kg)		39						
Dimensions (mm)			(H) 632 x (W)	725 x (D) 556				

■ Attention

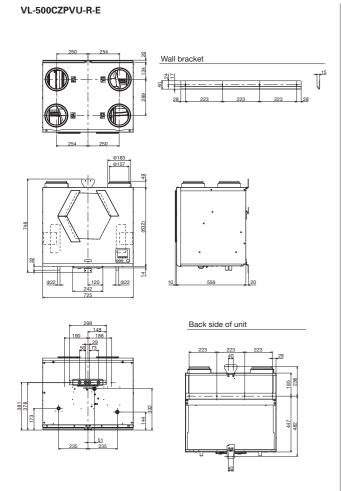
- 1. The above values are at factory default.
 2. The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 3. The sound pressure level at 3m is spherical.
 4. Temperature exchange efficiency (%) is based on winter condition.
 5. Mitsubishi Electric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

Characteristic Curves



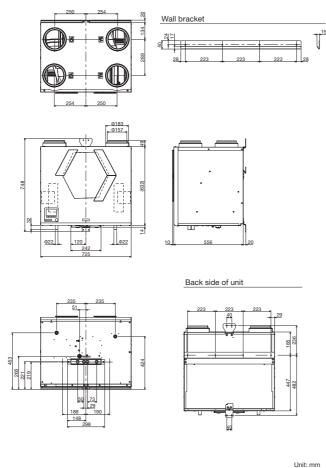
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

Dimensions



Unit: mm

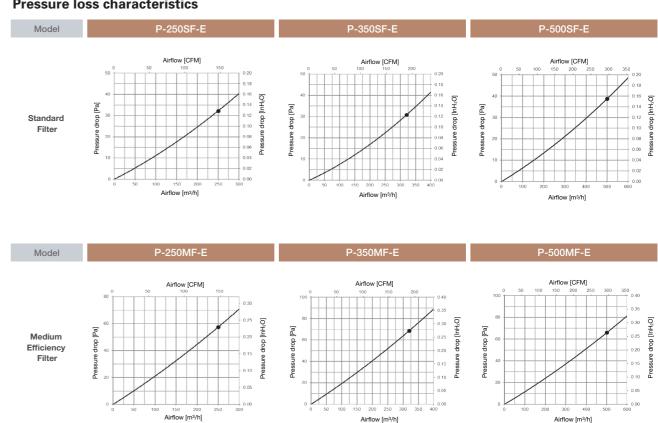
VL-500CZPVU-L-E



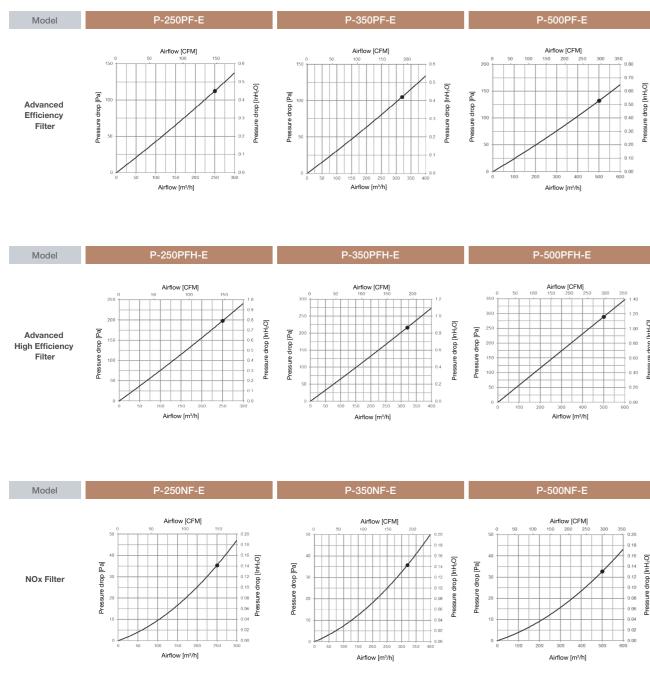
Filters

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-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		G3	G4	M6	M6	ePM ₁ 55%	NO ₂ 90%
	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM ₁₀ 80%	ePM2.5 50%		

Pressure loss characteristics



Pressure loss characteristics



Silencer Box P-250/350/500SB-E

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





Model

■ Attenuation of sound power level for center frequency

19 29 28

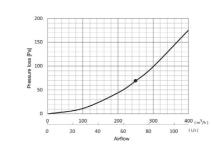
11

- 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

74

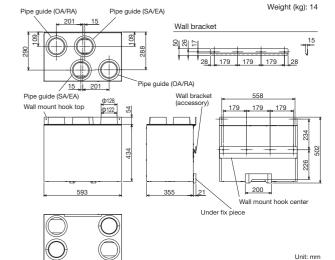
175

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

P-250SB-E



Model

■ Attenuation of sound power level for center frequency

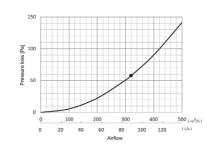
Airflow (m³/h)	Static pressure Point	Point Attenuation of sound power level for center frequency Hz (dB)								łz (dB)
(III / III) (Pa)		63	125	250	500	1000	2000	4000	8000	
224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12

- 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.

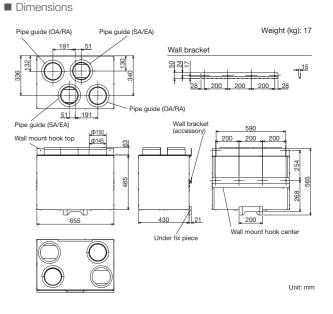
■ Pressure loss curve

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

the silencer box.



P-350SB-E



Model P-500SB-E

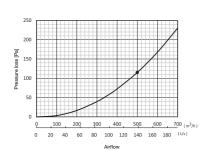
■ Attenuation of sound power level for center frequency

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

- 1. Figures on the chart above are measured by Mitsubishi Electric.
- 2. The silencer box is placed on the just after the outlet of the Lossnav 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



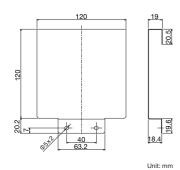
Weight (kg): 27 554

Remote Controller Cover P-RCC-E

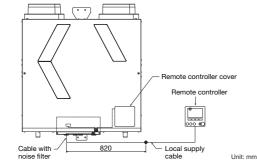
■ Dimensions

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

Dimensions



■ Configuration





Unit: mm

Remote Controller Cover



Cable with Noise Filter (Cable length outside the product: Approximately 820 mm)

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

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



VL-50(E)S₂-E VL-50SR₂-E



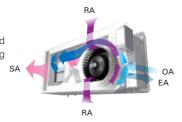
VL-100(E)U5-E

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

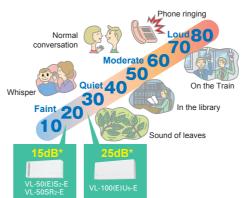
Product advantages

Air supplied and Exhausted Simultaneously

Air is supplied and exhausted simultaneously while transferring



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



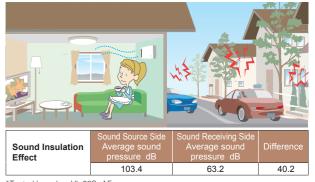
Energy Efficient

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

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

Sound Insulation

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



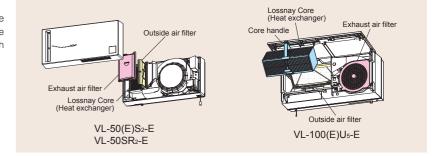
- *Measured by average sound pressure level of more than 30dB in 500Hz according to

280

VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E

Easy Maintenance

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



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

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



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

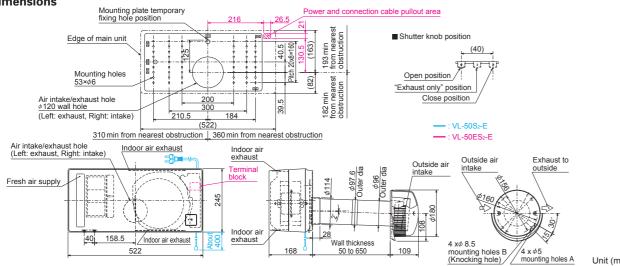
Specifications

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

Model		VL-50(E)S ₂ -E							
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	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.

Dimensions

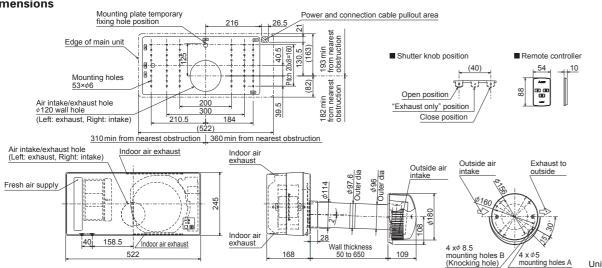


Model: VL-50SR₂-E (Remote Controller Model)

Model		VL-50SR₂-E							
Electrical power supply	220\	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		С							

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

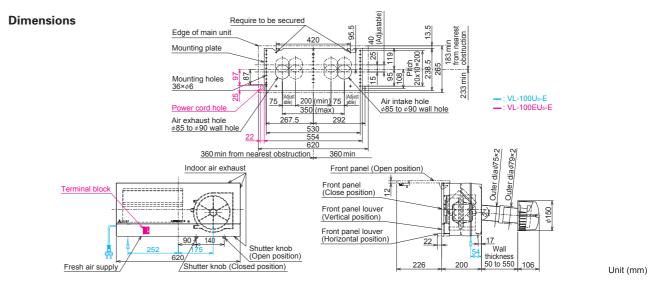
Dimensions



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

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

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



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-50VSQ5-E
Feature	-	-	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)		-	-	-	-
Classification (ISO16890)	Coarse 35%	ePM10 75%	-	-	-

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

Filter and Extension Pipe

Tittor and E	Attension ripe			
Туре	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint
Design				00
Model	P-100F ₅ -E	P-100HF₅-E	P-100P-E	P-100PJ-E
Feature	-	-	Total length when connected to the joint is 300mm.	Joint for extension pipe Screw-in method
Classification (EN779:2012)	G3	M6	-	-
Classification (ISO16890)	Coarse 35%	ePM10 70%	-	-

List of optional parts

	Lossnay	X-E	X-E	X-E	X-E	X-E	X-E	VX-E	VX-E	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	4	4H	D4	DH4	S-E	S-E	VS-E
			25RV	35RV	50RV	65RV	80RV	100R	150R	150R	200R	250R	50RC	50RC	100R	100R	50RV	80RV	100R
Optional Parts		LGH-15RVX-E	LGH-25RVX-E	LGH-35RVX-E	LGH-50RVX-E	LGH-65RVX-E	LGH-80RVX-E	LGH-100RVX-E	LGH-150RVX-E	-H97	-H97	LGH	GUF-50RD4	GUF-50RDH4	GUF-100RD4	GUF-100RDH4	LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E
Lossnay	PZ-62DR-EA/EB	•	•	•	•	•	•	•	•	•	•	•						•	•
Remote Controller	PZ-43SMF-E	•	•	•	•	•	•	•	•	•	•	•					•	•	•
	PZ-15RF ₈ -E	•																	
	PZ-25RF ₈ -E		•																
	PZ-35RF ₈ -E			•															
	PZ-50RF ₈ -E				•								•	•					
	PZ-65RF ₈ -E					•													
Standard Filter	PZ-80RF ₈ -E						•		•										
Titter	PZ-100RF ₈ -E																		
	PZ-150RTF-E									•									
	PZ-250RTF-E										•	•							
	PZ-S50RF-E																		
	PZ-S80RF-E																	•	
	PZ-S100RF-E																		•
	PZ-15RFM-E	•																	
	PZ-25RFM-E		•																
	PZ-35RFM-E			•															
	PZ-50RFM-E				•								•	•					
High-efficiency Filters	PZ-65RFM-E					•													
T IILEIS	PZ-80RFM-E						•		•										
	PZ-100RFM-E																		
	PZ-S50RFM-E																		
	PZ-S80RFM-E																	•	
	PZ-S100RFM-E																		•
	PZ-15RFP ₂ -E	•																	
	PZ-25RFP ₂ -E		•																
	PZ-35RFP ₂ -E			•															
	PZ-50RFP ₂ -E												•	•					
	PZ-65RFP ₂ -E					•													
Advanced High-efficiency	PZ-80RFP ₂ -E						•		•										
Filters	PZ-100RFP ₂ -E										•				•	•			
	PZ-M6RTFM-E									•	•	•							
	PZ-F8RTFM-E									•	•	•							
	PZ-S50RFH-E																•		
	PZ-S80RFH-E																	•	
	PZ-S100RFH-E																		•
	PZ-100SS-E	•																	
Duct Silencer	PZ-150SS-E		•	•															
	PZ-200SS-E				•	•							•	•			•		
	PZ-250SS-E						•	•	•						•	•		•	•
CO ₂ Sensor	PZ-70CSW-E																	•	•
222 3000.	PZ-70CSB-E																		•

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

List of optional parts for the VL-CZPVU Series

Optional	Parts			Lossnay	VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
	Туре	Classification (EN779:2012)	Classification (ISO16890)	Model	VL-25	VL-35	VL-50
				P-250F-E			
	Replacement Filter	G3	Coarse 55%	P-350F-E		•	
	, inter			P-500F-E			•
	0, 1			P-250SF-E	•		
	Standard Filter	G4	Coarse 90%	P-350SF-E			
F11.				P-500SF-E			
	NA II			P-250MF-E			
	Medium Efficiency Filter	M6	ePM ₁₀ 80%	P-350MF-E			
Filter				P-500MF-E			
	Advanced Efficiency Filter	M6	ePM2.5 50%	P-250PF-E			
				P-350PF-E			
				P-500PF-E			
	Advanced			P-250PFH-E			
	High Efficiency		ePM ₁ 55%	P-350PFH-E			
	Filter			P-500PFH-E			
				P-250NF-E			
	NoxFilter		NO ₂ 90%	P-350NF-E		•	
				P-500NF-E			
				P-250SB-E	•		
	S	Gilencer Box		P-350SB-E		•	
				P-500SB-E			•
	Remote	e Controller Cover		P-RCC-E	•	•	•

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

Optional	Parts	S2-E	VL-50ES ₂ -E	VL-50SR ₂ -E	VL-100U5-E	VL-100EU ₅ -E			
	Туре	Classification (EN779:2012)	Classification (ISO16890)	Model	VL-50S ₂ -E	VL-50	VL-50	VL-10	VL-10
Filter	Replacement Filter High Efficiency	G3	Coarse 35%	P-50F ₂ -E		•	•		
Filler			Coarse 33 /6	P-100F ₅ -E				•	•
			ePM ₁₀ 75%	P-50HF ₂ -E					
	Filter	M6	ePM ₁₀ 70%	P-100HF5-E					
	Ev	ktension Pipe		P-50P-E					
		Kterision ripe	P-100P-E						
		Joint	P-50PJ-E						
		JUITE		P-100PJ-E				•	
	St	ainless Hood		P-50VSQ ₅ -E			•		