LOSSNAY SYSTEM

VL-CZPVU SERIES

Speci□cations

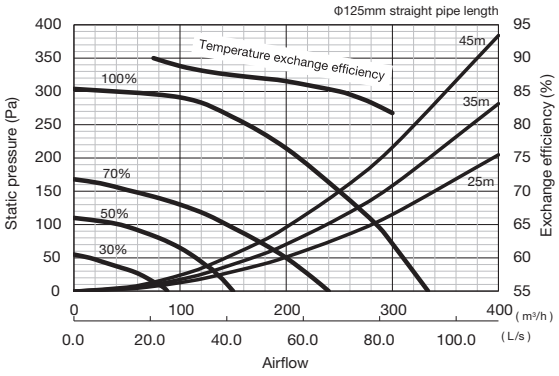
VL-250CZPVU-R/L-E

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

■ Attention

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

Characteristic Curves

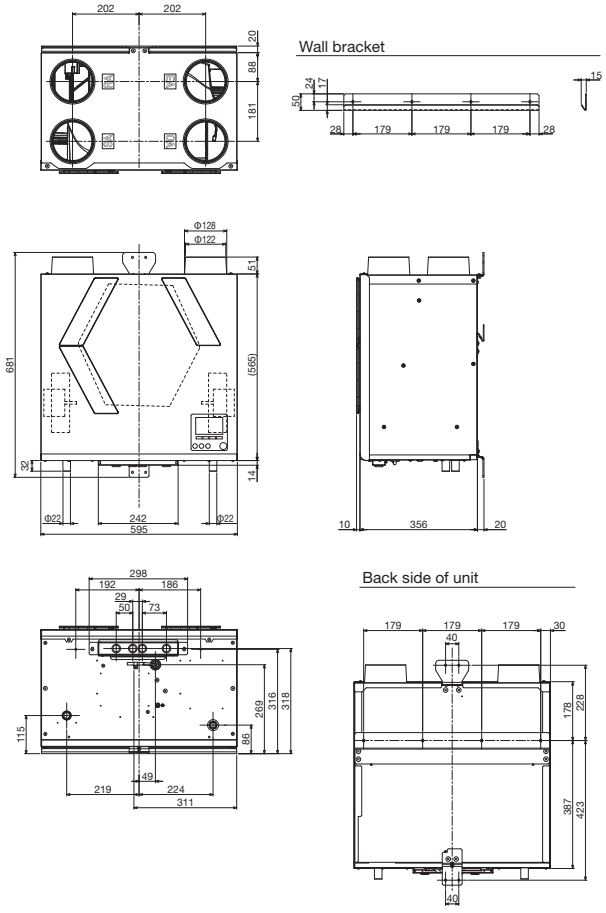


■ Attention

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

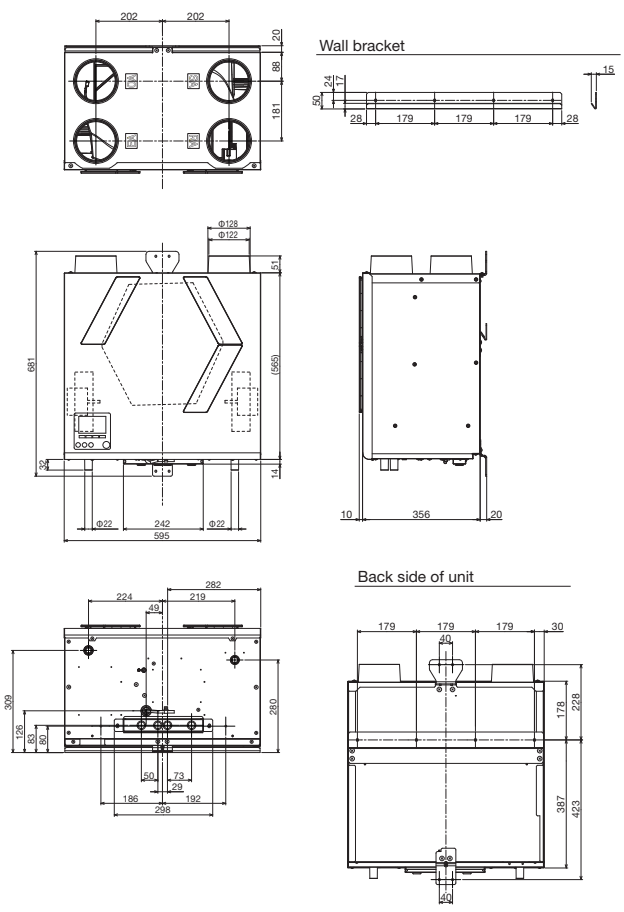
Dimensions

VL-250CZPVU-R-E



Unit: mm

VL-250CZPVU-L-E



Unit: mm

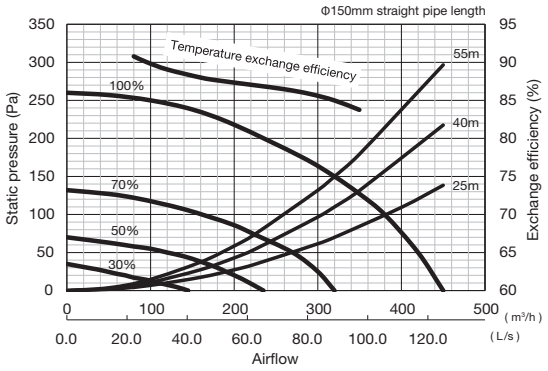
VL-350CZPVU-R/L-E

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

■ Attention

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

Characteristic Curves

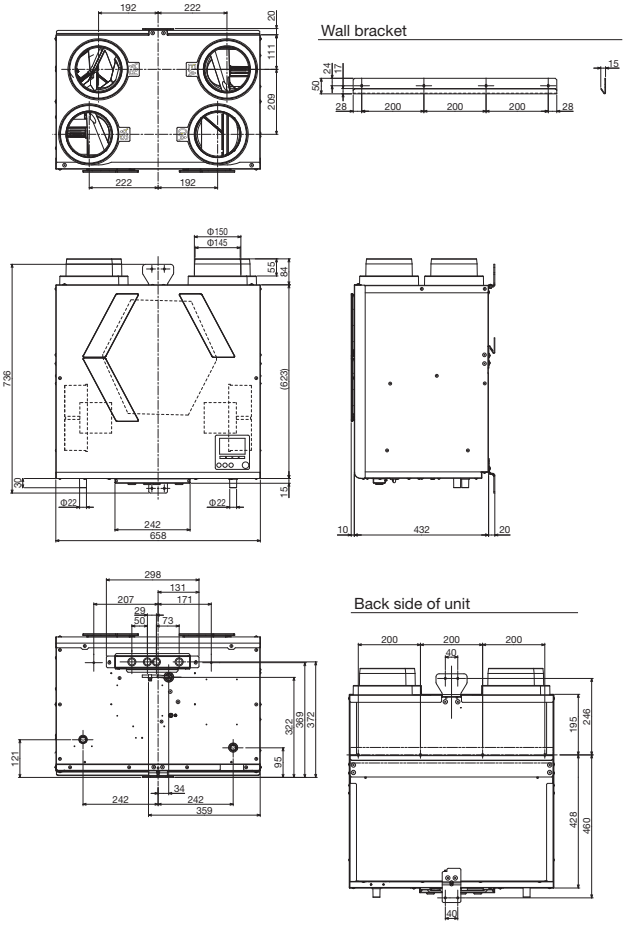


■ Attention

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

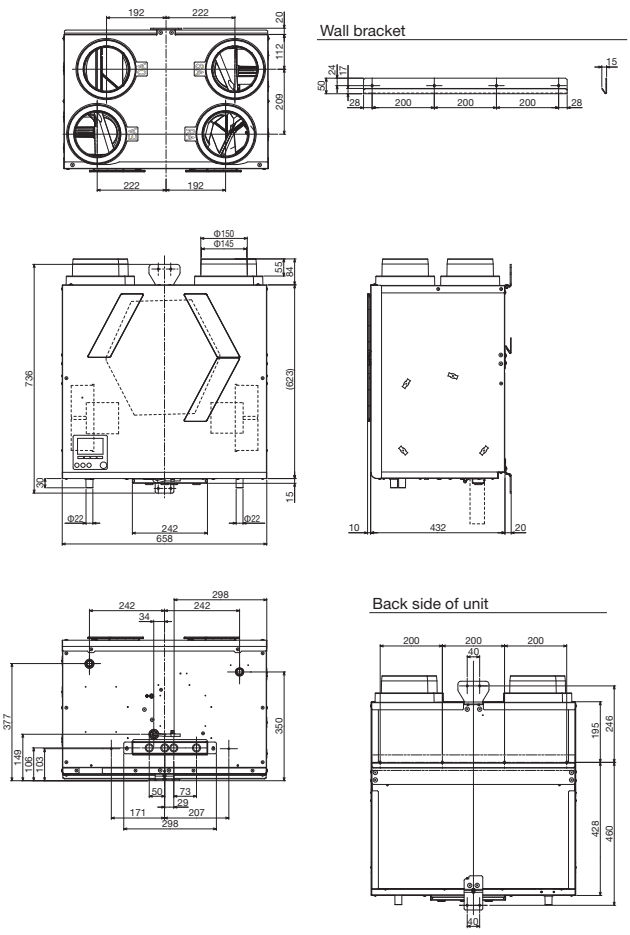
Dimensions

VL-350CZPVU-R-E



Unit: mm

VL-350CZPVU-L-E



Unit: mm

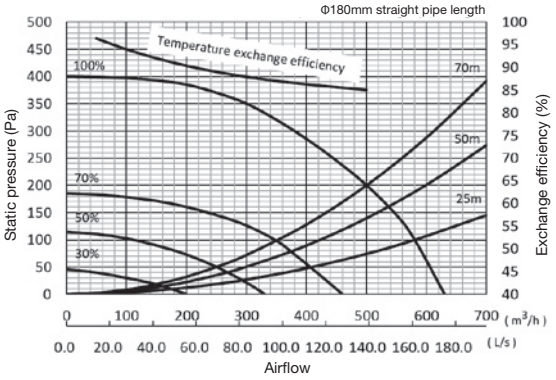
VL-500CZPVU-R/L-E

Electrical Power Supply		220-240V/50Hz, 220V-/60Hz			
Ventilation Mode		Heat recovery mode			
Fan Speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)
Running Current (A)		1.73	0.77	0.40	0.19
Input Power (W)		275	104	49	21
Airflow	(m^3/h)	500	350	250	150
	(L/s)	139	97	69	42
External Static Pressure (Pa)		200	98	50	18
Temperature Exchange Efficiency (%)		85	87	89	92
Noise Level (dB)		37	29	22	15>
Energy Efficiency Class		A+			
Weight (kg)		39			
Dimensions (mm)		(H) 632 x (W) 725 x (D) 556			

■ Attention

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

Characteristic Curves

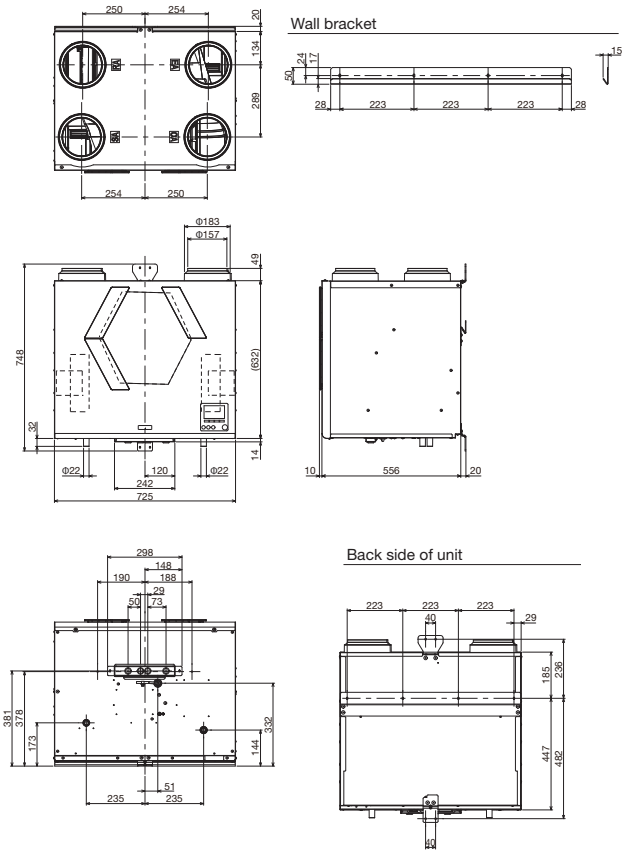


■ Attention

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

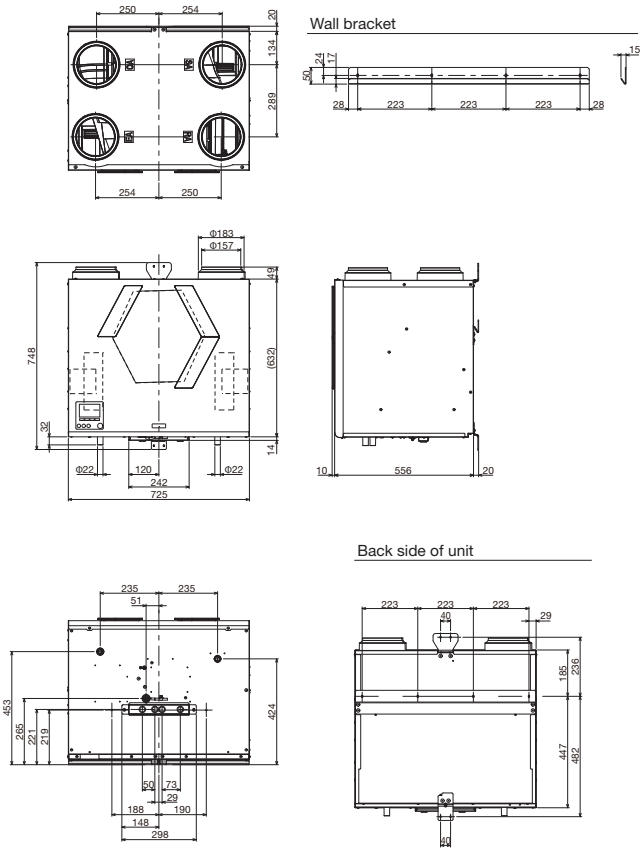
Dimensions

VL-500CZPVU-R-E



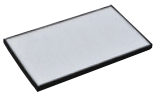
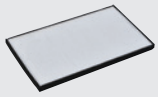
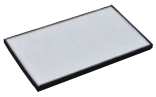
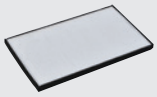
Unit: mm

VL-500CZPVU-L-E

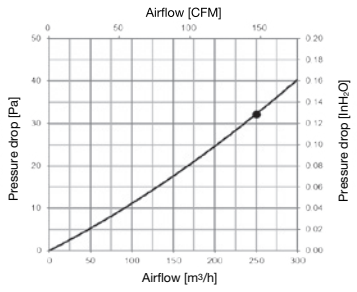
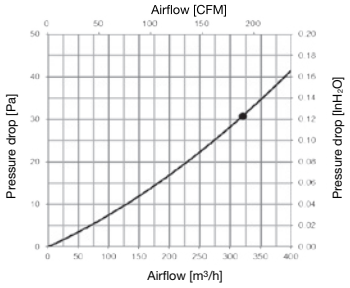
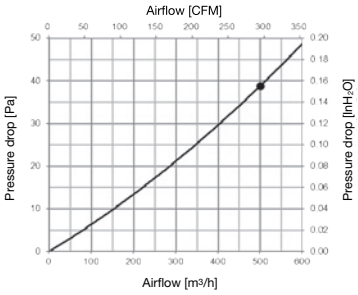


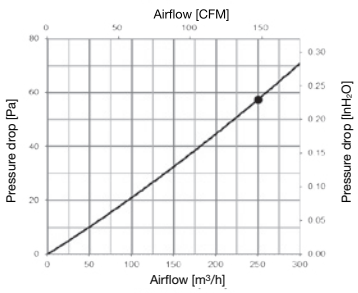
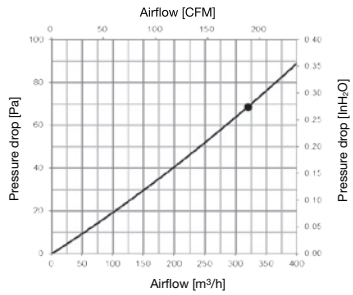
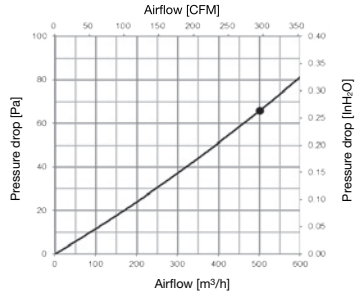
Unit: mm

Filters

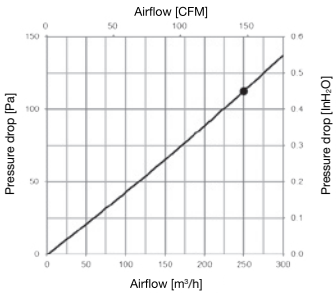
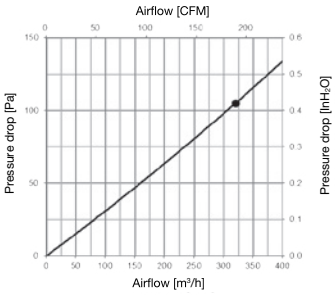
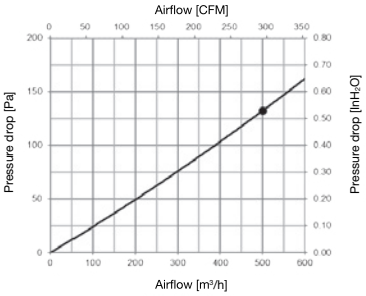
Type		Replacement Filter	Standard Filter	Medium Efficiency Filter	Advanced Efficiency Filter	Advanced High Efficiency Filter	NOx Filter
							
Model		P-250F-E P-350F-E P-500F-E	P-250SF-E P-350SF-E P-500SF-E	P-250MF-E P-350MF-E P-500MF-E	P-250PF-E P-350PF-E P-500PF-E	P-250PFH-E P-350PFH-E P-500PFH-E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

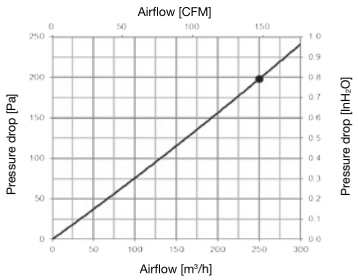
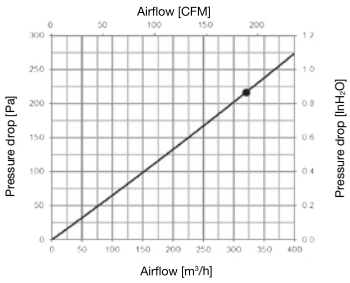
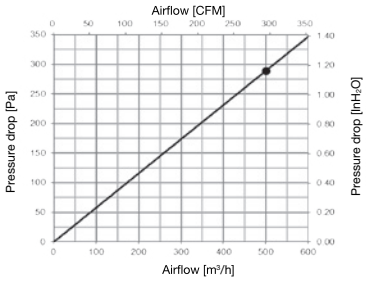
Pressure loss characteristics

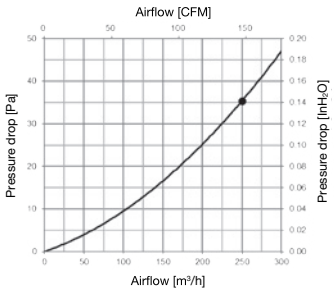
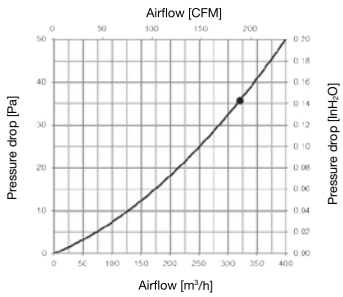
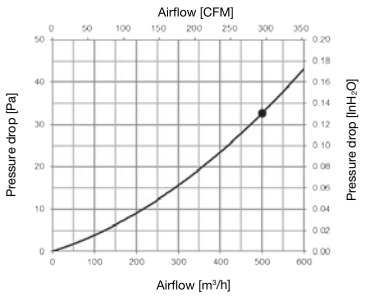
Model	P-250SF-E	P-350SF-E	P-500SF-E
Standard Filter			

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

Pressure loss characteristics

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

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

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

Silencer Box

P-250/350/500SB-E

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

Installation Image

Model P-250SB-E

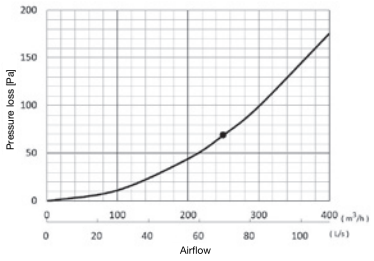
■ Attenuation of sound power level for center frequency

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

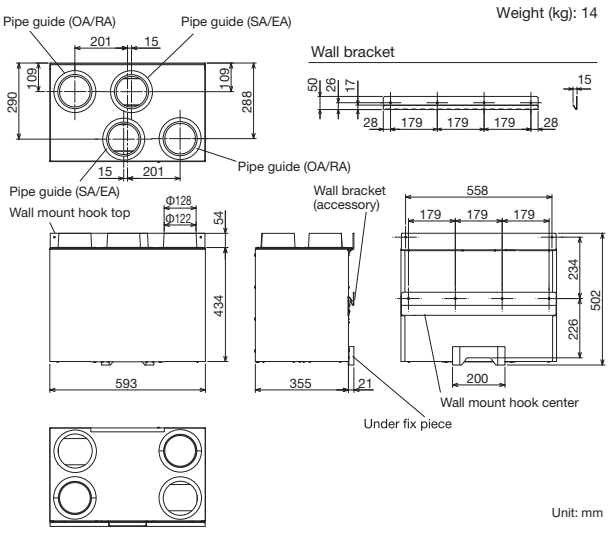
1. Figures in the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

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



■ Dimensions



Unit: mm

Model P-350SB-E

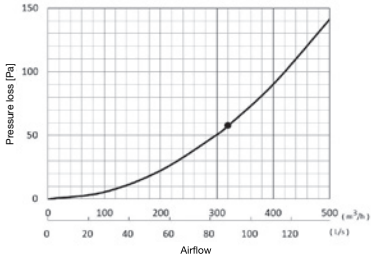
■ Attenuation of sound power level for center frequency

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

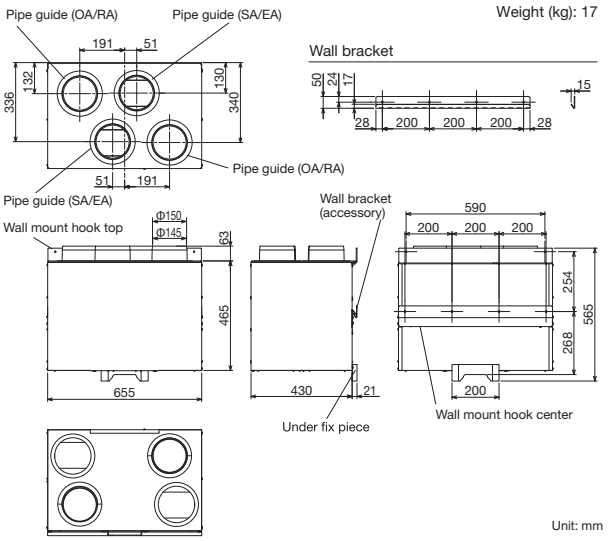
1. Figures in the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When airflow differs, attenuation may also differ from the chart above.

■ Pressure loss curve

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



■ Dimensions



Unit: mm

Model	P-500SB-E

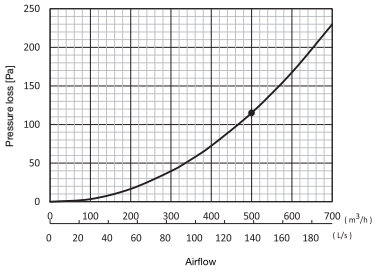
■ Attenuation of sound power level for center frequency

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

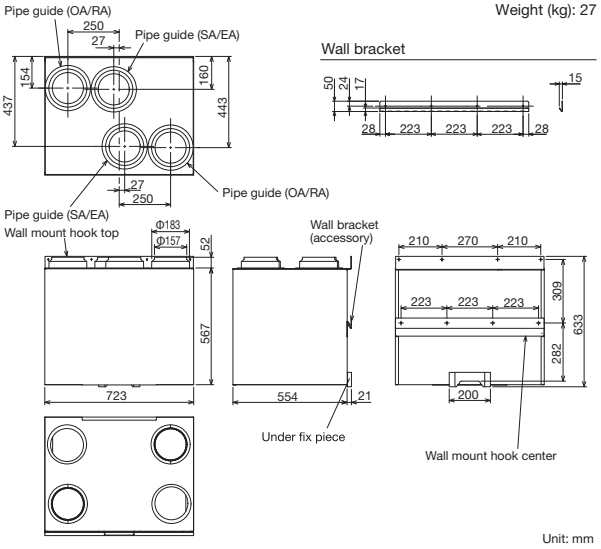
1. Figures on the chart above are measured by Mitsubishi Electric.
2. The silencer box is placed on the just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
3. When the airflow differs, the attenuation may be also different from the chart above.

■ Pressure loss curve

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



■ Dimensions

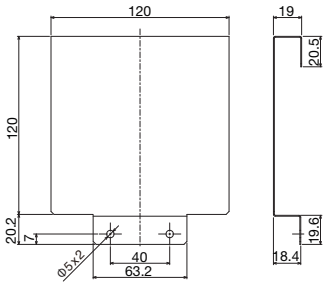


Remote Controller Cover

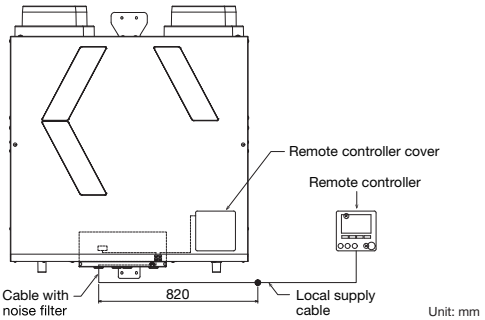
P-RCC-E

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

■ Dimensions



■ Configuration



Remote Controller Cover

Cable with Noise Filter

(Cable length outside the product: Approximately 820 mm)

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

Wall mounted models. Particularly suitable for houses and small of□ces.

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

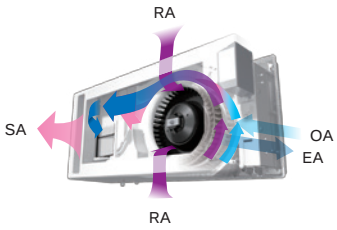
VL-100(E)U5-E

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

Product advantages

Air supplied and Exhausted Simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.

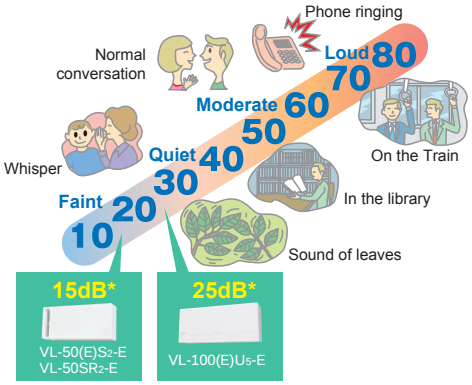


Energy Efficient

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

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

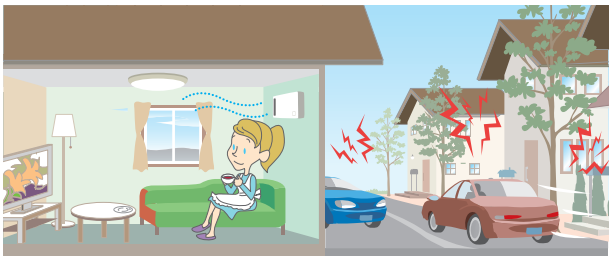
Low noise levels are ideal for bedrooms and children's rooms.



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

Sound Insulation

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

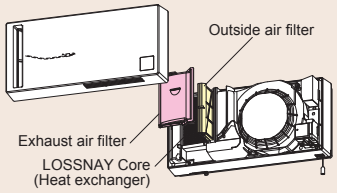


Sound Insulation Effect	Sound Source Side Average sound pressure dB	Sound Receiving Side Average sound pressure dB	Difference
	103.4	63.2	40.2

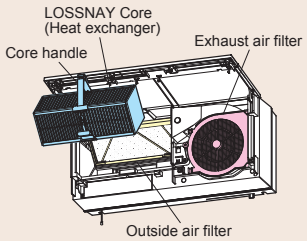
*Tested based on VL-08S2-AE
*Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.
VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E

Easy Maintenance

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



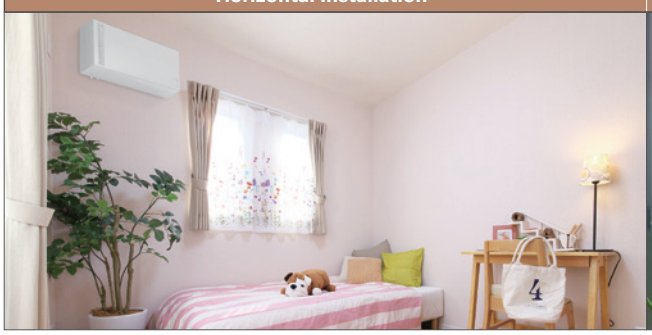
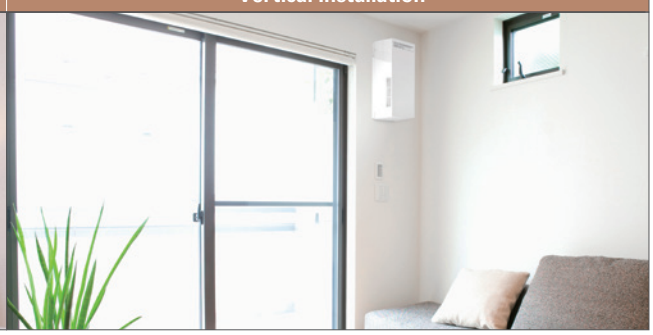
VL-50(E)S2-E
VL-50SR2-E



VL-100(E)U5-E

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

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

Horizontal Installation	Vertical Installation
	

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

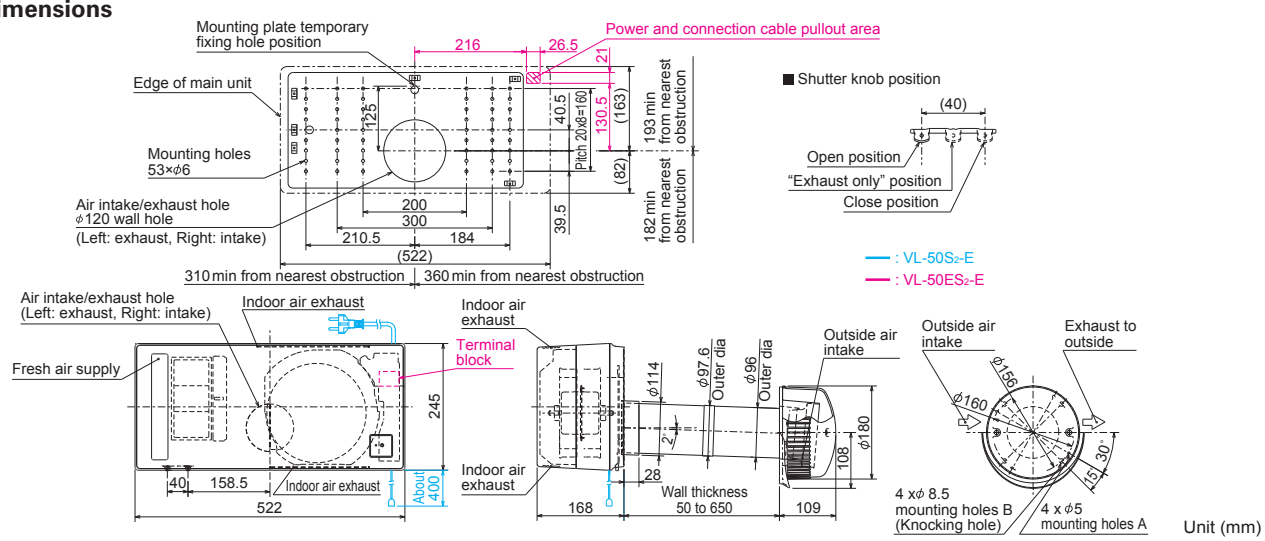
Speci□cations

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

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

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

Dimensions



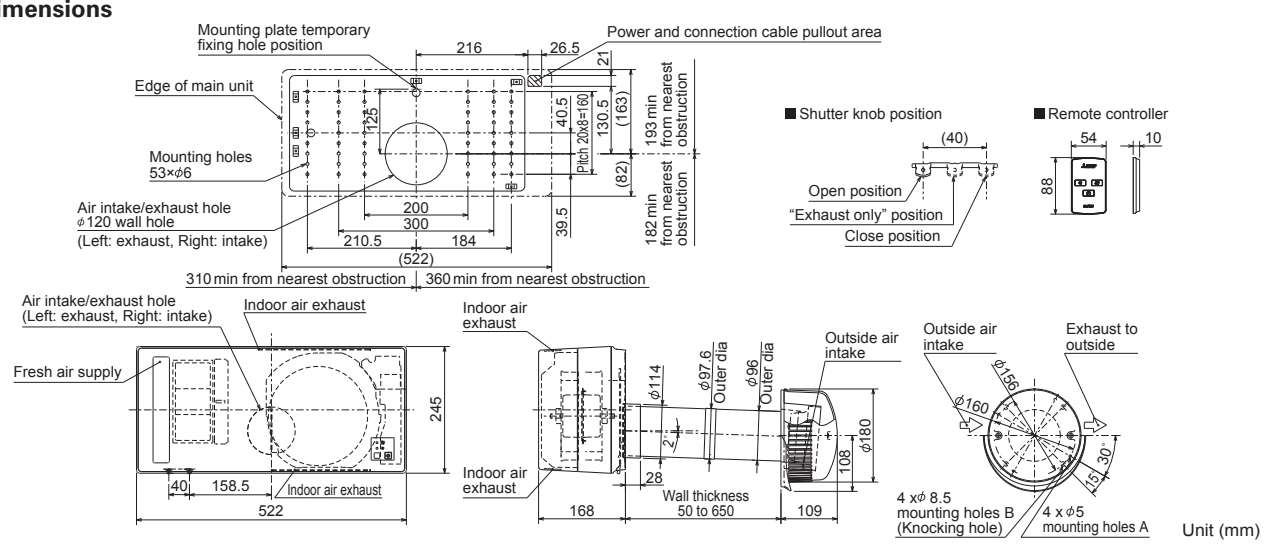
Unit (mm)

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

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

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

Dimensions



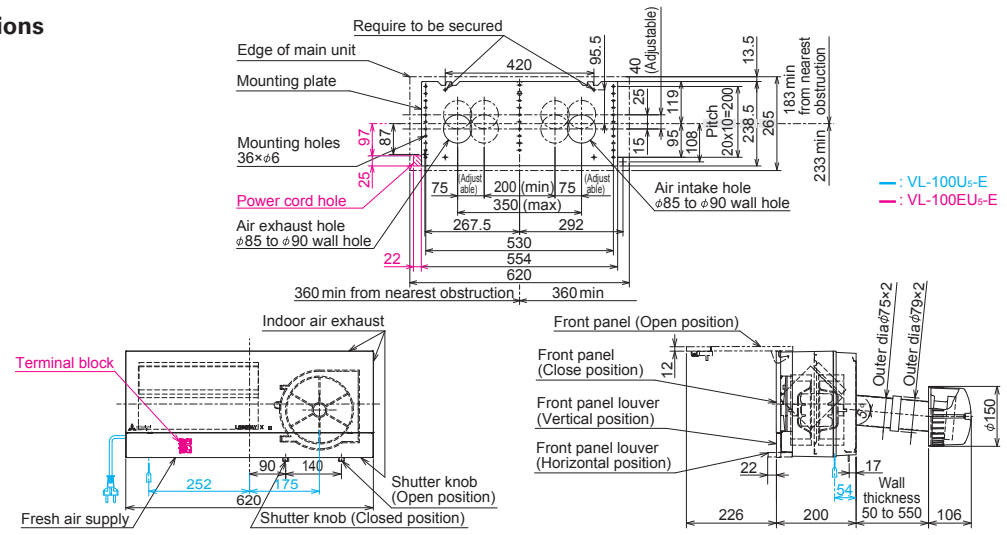
Unit (mm)

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

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

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

Dimensions



Unit (mm)

Optional Parts

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

Filter, Extension Pipe and Stainless Hood

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

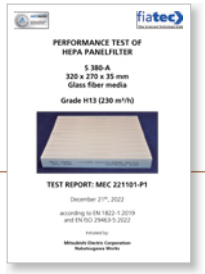
Optional Parts for VL-100(E)U5-E

Filter and Extension Pipe

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

PLASMA QUAD PROTECT

Features and Concepts



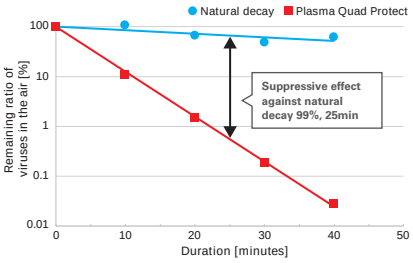
Reliable purification performance

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

Tests report results

Suppresses viruses

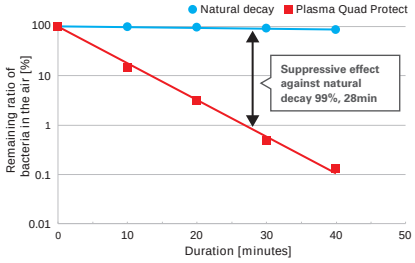
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space:
99% suppression in 25 minutes
This result does not represent the product's performance in a practical operating environment.



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

Suppresses bacteria

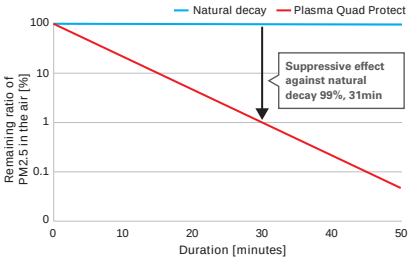
Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space:
99% suppression in 28 minutes
This result does not represent the product's performance in a practical operating environment.



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

Removes 99% PM2.5

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

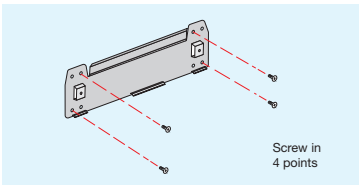


[Testing method] According to JEM1467.
Operating JC-23KR-EU (230m³/h, 31min.) in a closed space of 27.5m³. Additional particle from outside is not considered. This result does not represent the product's performance in an actual operating environment.

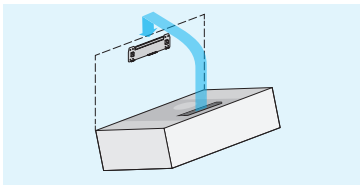
Easy, space-saving installation

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

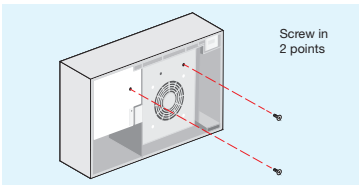
1 Attach the mounting plate to the wall by screwing in 4 points.



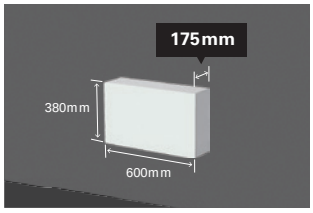
2 Hook the unit onto the mounting plate.



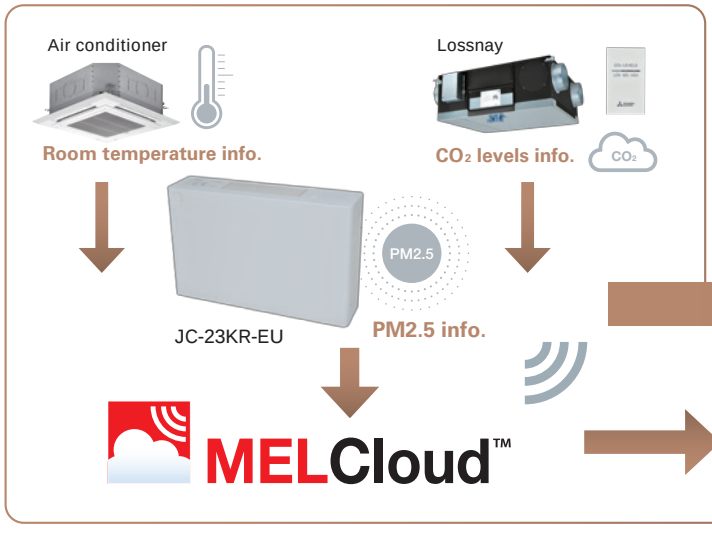
3 Screw in 2 points to secure the unit to the mounting plate.



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



New MELCO package solution



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

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

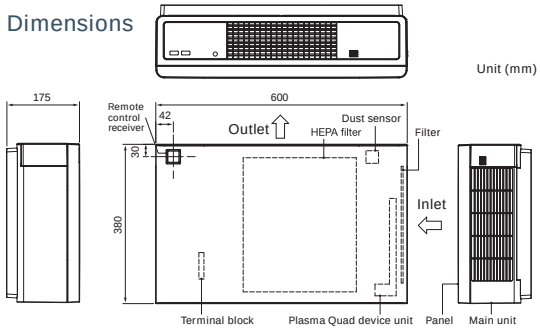
Visualization

Specifications

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

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

Dimensions



Replacement HEPA Filter

P-23KHF-E

Small air volume type

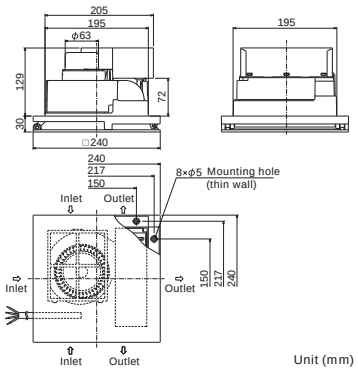
JC-4K-EU

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

Specifications

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

Dimensions



Optional parts list

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

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

List of optional parts for the VL-CZPVU Series

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

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

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