

# Mitsubishi Electric Ventilator Selection Tool

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

**1. Model Selection**

**3. Technical Documents**

**2. Summary Sheet**

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

## 1. Model Selection

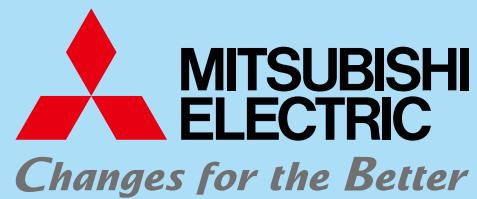
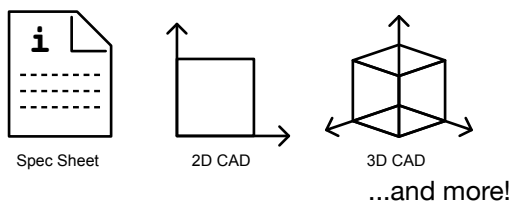
An appropriate model can be selected simply by inputting the necessary air volume and static pressure. Optional parts that go with the selected model will also be listed.

## 2. Summary Sheet

Data for the selected model can be downloaded in PDF format. SFP at duty point, acoustic information, and energy saving calculation can be also downloaded (varies by model).

## 3. Technical Documents

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



# ENERGY RECOVERY VENTILATORS



# LOSSNAY YouTube Channel

LOSSNAY YouTube channel provides videos on LOSSNAY features, structures, and more! Check the 2D Code below for more details.

**LOSSNAY Features**

**LOSSNAY Structure**

**How to select a model**

SCAN ME!



## RVX3 Series

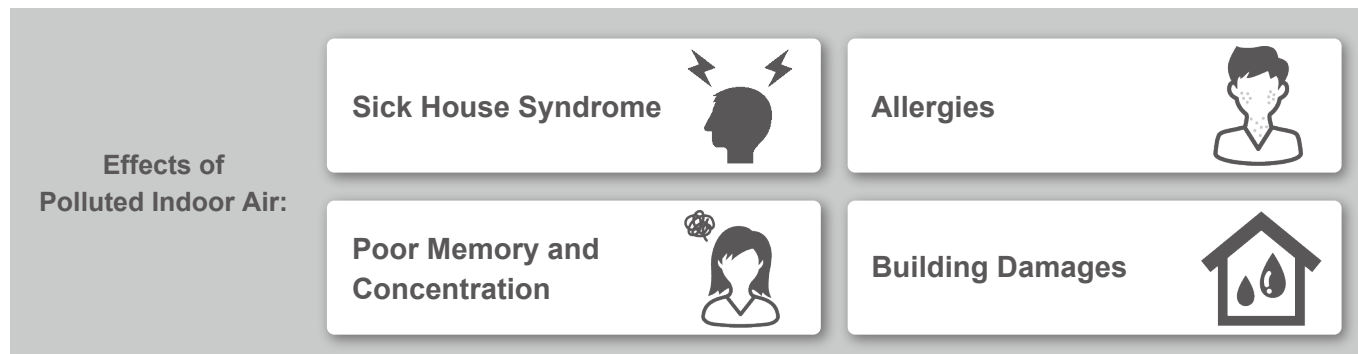
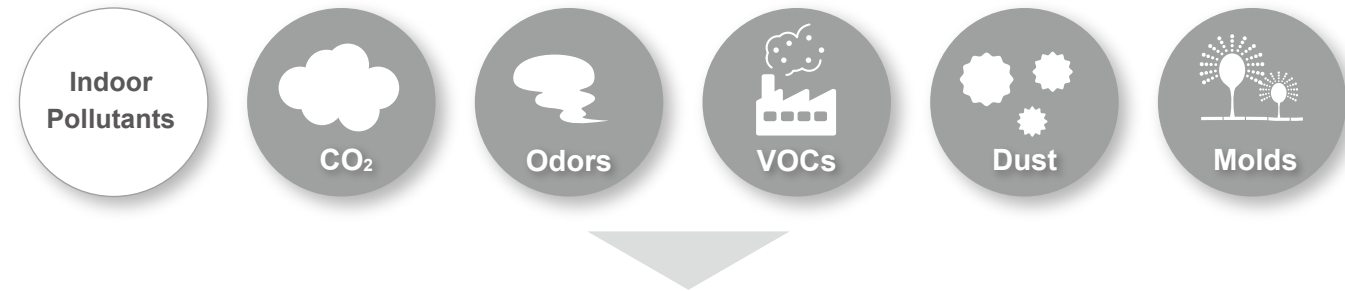
Offering solutions for better indoor air quality and saves energy by energy recovery ventilation.

**MITSUBISHI ELECTRIC CORPORATION**  
 HEAD OFFICE : TOKYO BLDG., 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN  
 www.MitsubishiElectric.com

# Ventilation Solutions

## Why is Ventilation Necessary?

Ventilation is necessary to maintain good indoor air quality by letting in fresh air from outside and expelling indoor pollutants.



## Types of Ventilation

There are 2 types of ventilation: "Natural Ventilation" and "Mechanical Ventilation". With "Mechanical Ventilation", the amount of air that is supplied and exhausted can be controlled without being influenced by the outside environment, to enable stable and sufficient ventilation.

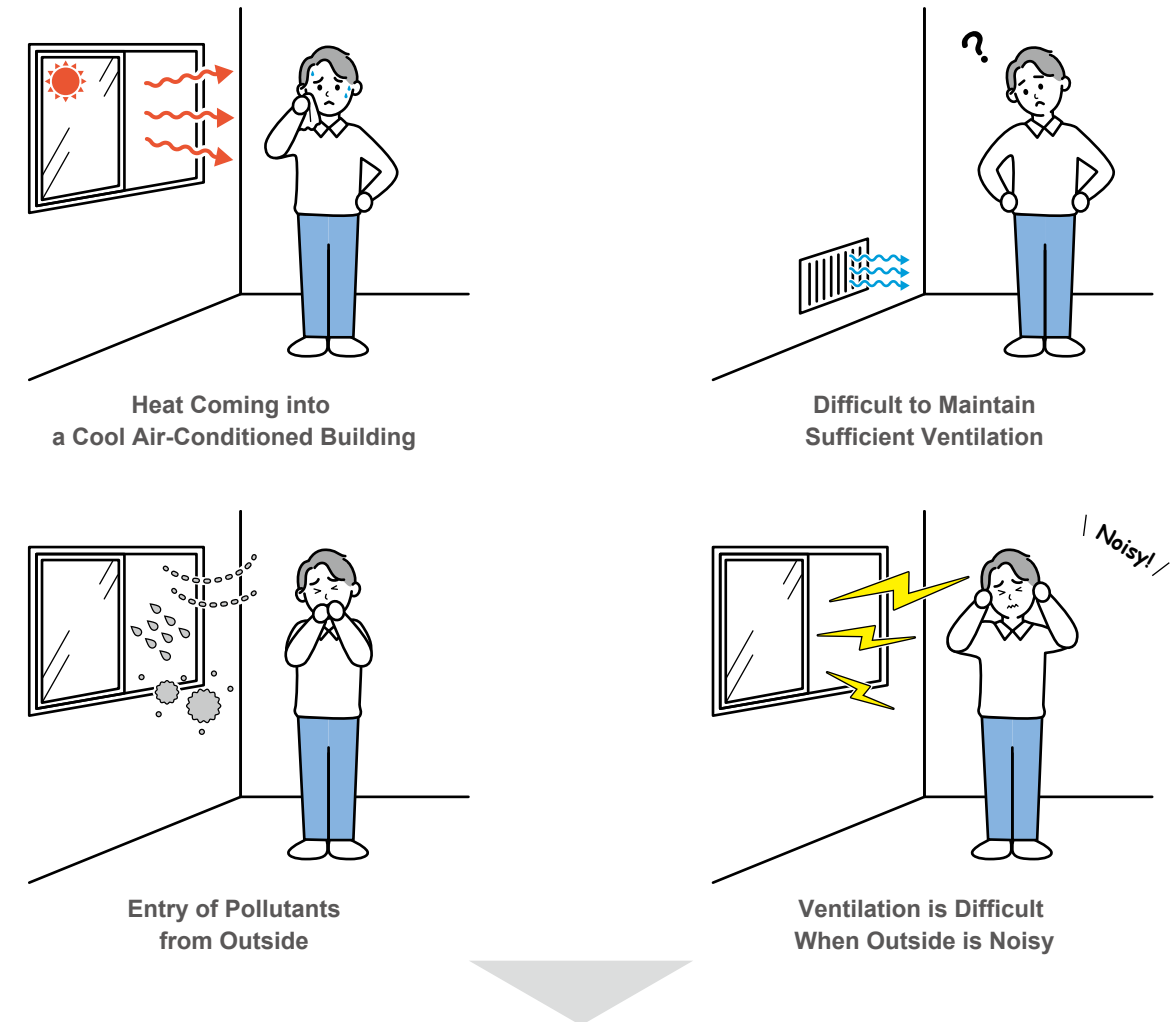
**Natural Ventilation**  
Ventilation through openings, such as windows and doors.

**Unstable Ventilation  
Affected by Air Pressure**

**Mechanical Ventilation**  
Ventilation controlled by a mechanical ventilating device.

**Stable and Sufficient  
Ventilation Control**

## Common Problems with Natural Ventilation



**LOSSNAY is your solution!**

LOSSNAY can ventilate the room while maintaining a comfortable temperature without worrying about pollutants and noise coming in from outside.





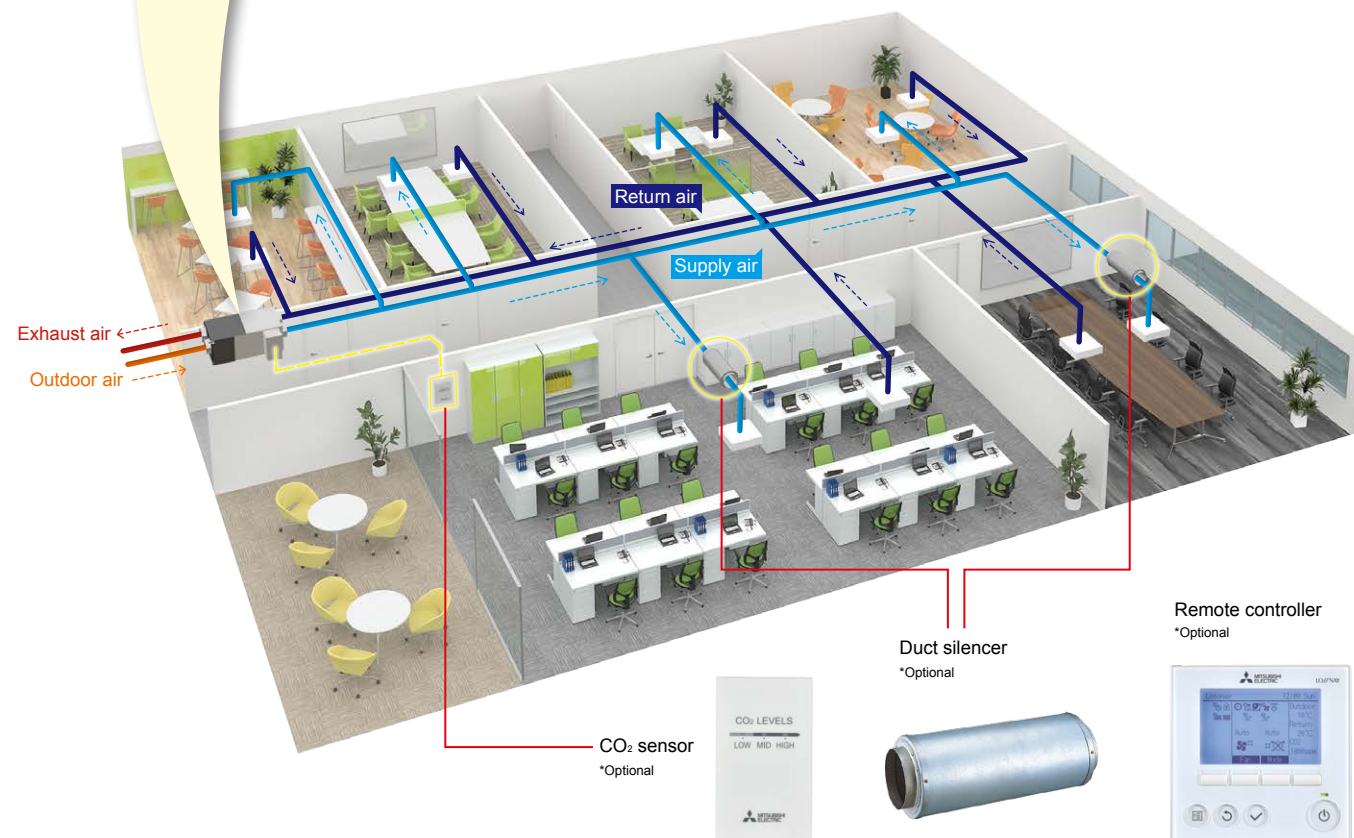
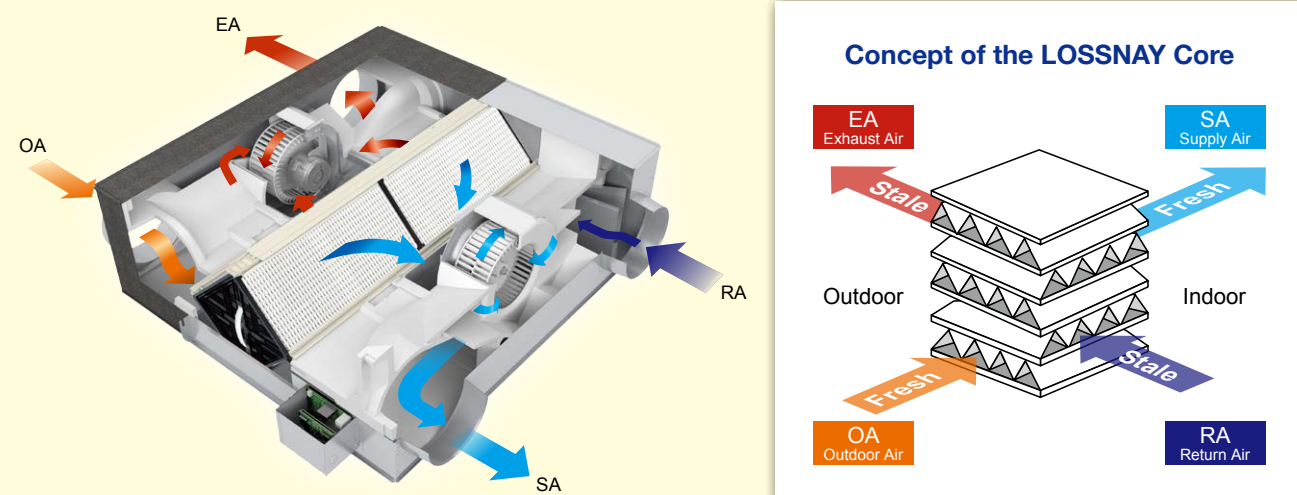
# LOSSNAY System

## What is LOSSNAY?

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

### How does LOSSNAY work?

The LOSSNAY core located at the crosspoint of each airflow transfers heat and humidity while going through each cross-air passage.



## Temperature and Humidity Exchange

Without total heat exchange, air-conditioned air inside the building is expelled, and new hot or cold air is directly brought into the building. LOSSNAY can prevent this by total heat exchange so that fresh outdoor air is conditioned before it is brought into the room.

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

	LOSSNAY	Conventional ventilator
Dry bulb temperature (°C)	28.3	33
Absolute humidity (g/kg(DA))	15.1	20.1
Relative humidity (%)	62.6	63
Enthalpy (kJ/kg(DA))	67	84.6
Total energy recovery (kW)	5.9	0
Outdoor air load (kW)	4.7	10.6
Outdoor air load ratio (%)	44.3	100

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

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

**Heat recovery calculation**  
Indoor supply air temperature (°C) = Outdoor temperature (°C) - { Outdoor temperature (°C) - Indoor temperature (°C) } × Temp. recovery efficiency (%)  
Calculation example: 28.3°C = 33°C - (33°C - 26°C) × 67.5%  
\*The above applies to the case of LGH-100RVX3-E(1000m<sup>3</sup>/h).

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

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

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

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

**Heat recovery calculation**  
Indoor supply air temperature (°C) = { Indoor temperature (°C) - Outdoor temperature (°C) } × Temp. recovery efficiency (%) + Outdoor temperature (°C)  
Calculation example: 15°C = (20°C - 0°C) × 75.5% + 0°C  
\*The above applies to the case of LGH-100RVX3-E(1000m<sup>3</sup>/h).

## 2 Main Benefits of Heat Exchange Ventilation

### Energy Saving

Total heat exchange maintains comfortable room temperature, and thereby conserves energy and reduces the load on the air conditioning system

### Clean

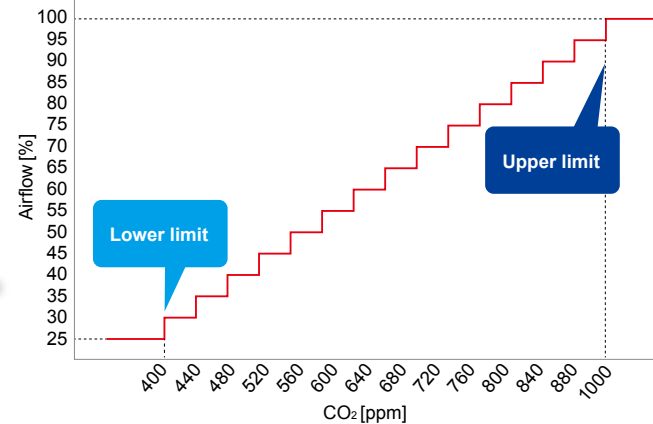
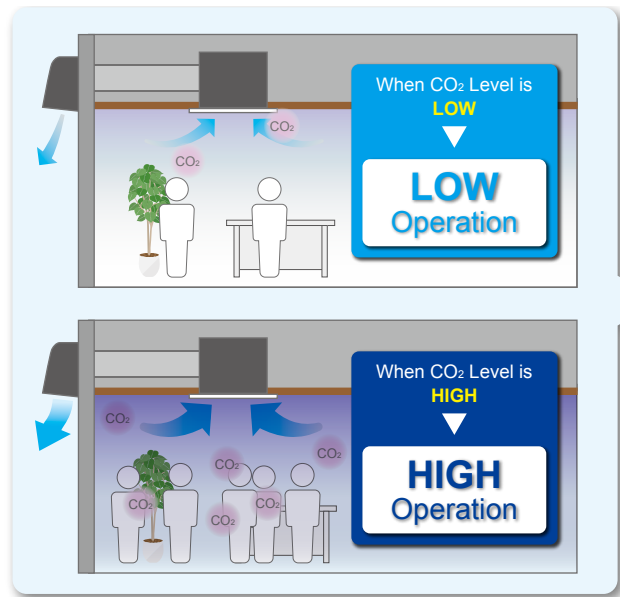
Outdoor air is filtered to prevent contaminants from coming in, and contaminated indoor air is expelled.

# Energy Saving and Clean Features of LOSSNAY

## "CO<sub>2</sub> Sensor" Clean and Efficient Operation

### ● 16 Steps of Automatic Airflow Control by CO<sub>2</sub> Level

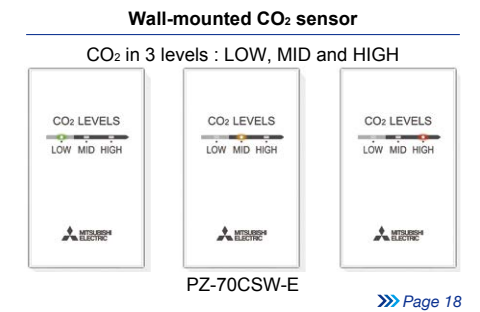
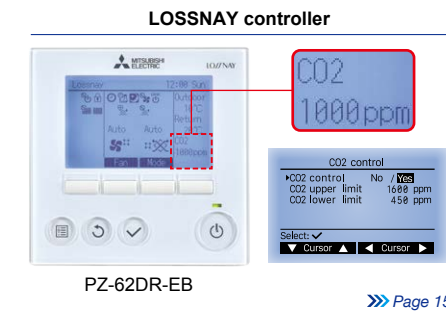
The CO<sub>2</sub> sensor controls airflow in 16 steps depending on the CO<sub>2</sub> level in the room. This saves energy by preventing over-ventilation while maintaining high indoor air quality.



Upper Limit	600 to 2000 ppm
Lower Limit	300 to (upper limit - 300) ppm
Increment	50ppm

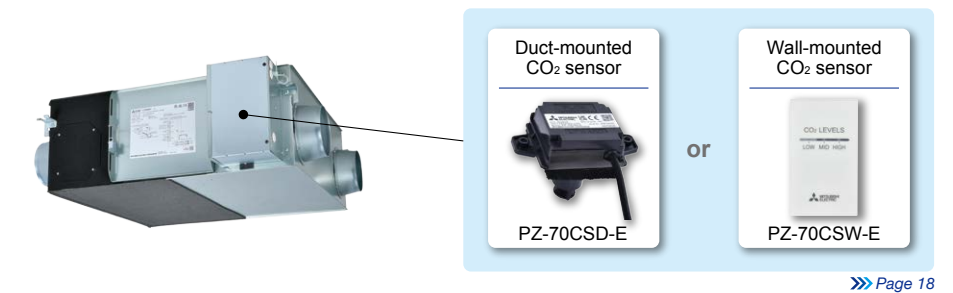
### ● 2 Ways to Monitor CO<sub>2</sub> Level

CO<sub>2</sub> level can be monitored with a LOSSNAY remote controller or wall-mounted CO<sub>2</sub> sensor.



### ● 2 Types of CO<sub>2</sub> Sensors

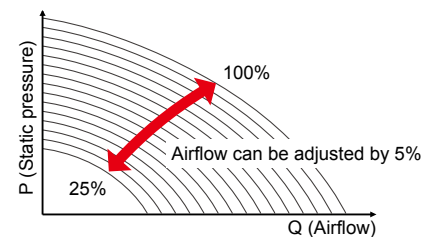
2 types of CO<sub>2</sub> sensors are available. Power is supplied to both sensors from the LOSSNAY circuit board.



## Other "Energy Saving" Features

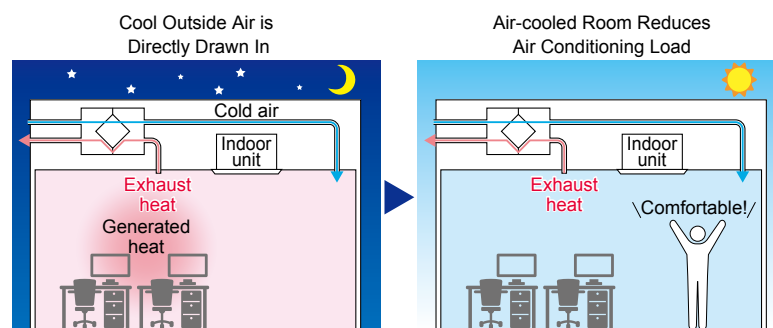
### "Flexible Airflow Setting" Prevention of Over-Ventilation

Flexible airflow setting saves energy by preventing over-ventilation! The fan speed of both supply and exhaust air can be flexibly adjusted within the range between 25% and 100% to ensure sufficient air volume. Airflow can be adjusted in 5% increments.



### "Night Purge Mode" Reduction of Morning Air Conditioning Load

When the air conditioner is off and outside air is cooler at night, the Night Purge Mode draws the cooler air into the room. This mode reduces the load when the air conditioning starts up the next morning.



## Other "Clean" Features

### "Advanced High Efficiency Filter" Removes Outside Pollutants

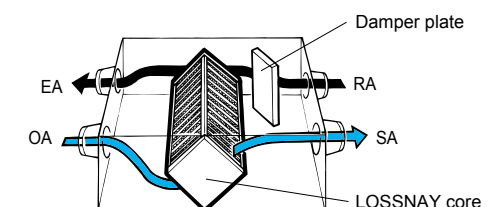
The new optional filter (PZ-RFP3-E) removes 99.7% of particles larger than 0.5µm. By removing pollutants, fresh and clean air is supplied.

\*GB/T 14295-2008: YG class 99.7%  
 (Collecting efficiency for particles that are 0.5µm or larger)  
 \*PM2.5 is airborne particulates that are 2.5µm or smaller in size.  
 \*The collecting performance of airborne particulates smaller than 0.3µm has not been confirmed.



### No heat exchange needed? Try the "Bypass Mode"

When air conditioning is off and heat exchange is not necessary, LOSSNAY can automatically switch to Bypass Mode. This enables simple ventilation while filtering outside pollutants, so indoor air quality is maintained without heat exchanging the outside air.





# Other New RVX3 Features

## "EC Motor" High Static Pressure and Low Power Consumption

LOSSNAY uses a high efficiency EC motor to realize low power consumption. The RVX3 series is equipped with Mitsubishi Electric's original EC motor, which delivers improved external static pressure compared to the previous RVX model in addition to low power consumption. It also allows flexible duct work.

Mitsubishi Electric's EC Motor

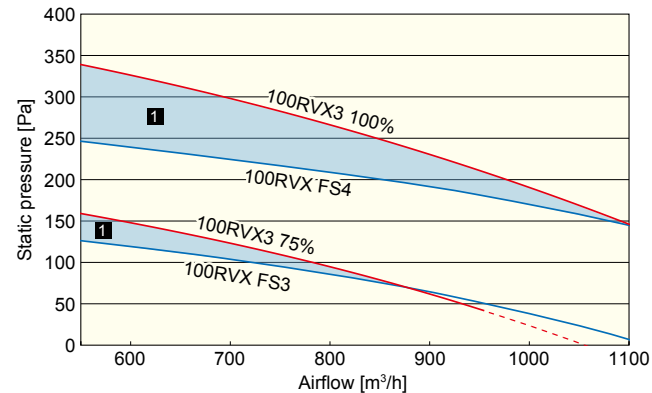


Low Power Consumption

Long Lifetime

The EC motor used in the RVX3 Series is developed and manufactured by Mitsubishi Electric.

Static Pressure of the RVX and RVX3 Series

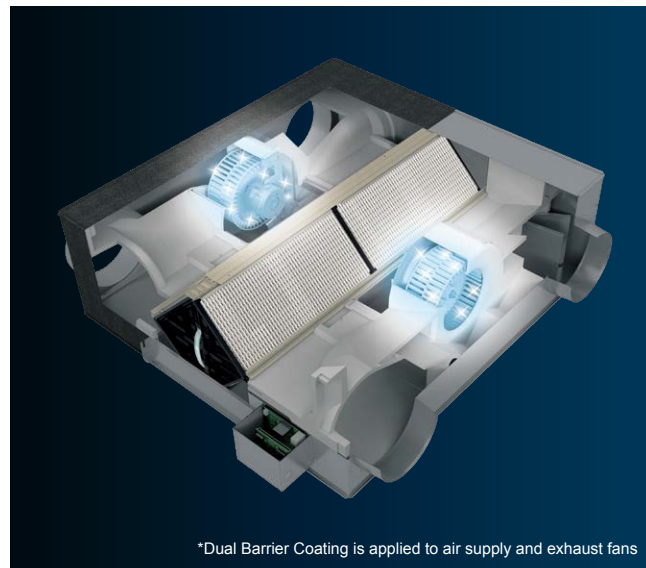


Increased static pressure

\*The dotted lines of the fan curve indicate reference values.

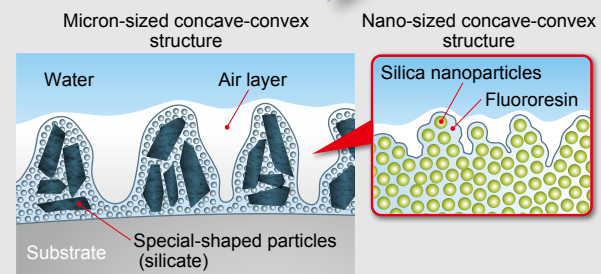
## "Dual Barrier Coated Blades" Reduce Maintenance Frequency

Dual Barrier Coating is applied to the fan blades of LOSSNAY to minimize the adherence of dirt. It keeps the fan in a cleaner state for a longer period of time and thus reduces maintenance frequency.



\*Dual Barrier Coating is applied to air supply and exhaust fans

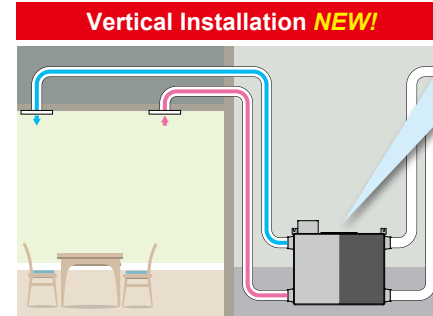
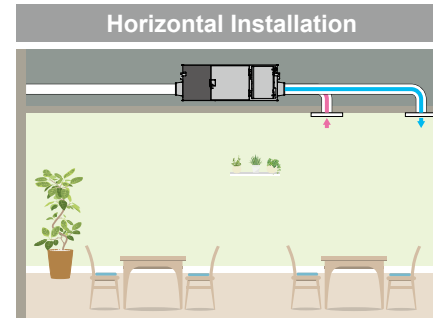
### What Is Dual Barrier Coating?



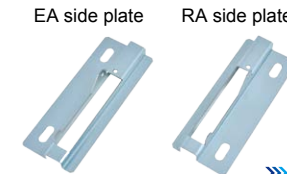
A water-repellent effect is achieved by creating a coating film that has nano-sized concave-convex structures formed by silica nanoparticles made of water-repellent fluororesin and micron-sized concave-convex structures formed by combining micron-sized special-shaped particles (silicate) with the silica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

## "Vertical and Horizontal Installation" Flexible Installation

The RVX3 Series can be installed vertically for greater flexibility of installing locations. By using optional parts, it can be installed in places such as the machine room where only vertical installation is possible.



Vertical Installation Plates



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

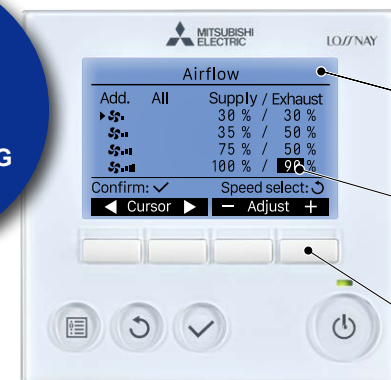
Model name	LOSSNAY
PZ-1VS-E	LGH-15RVX3-E
	LGH-25RVX3-E
	LGH-35RVX3-E
	LGH-50RVX3-E
PZ-2VS-E	LGH-65RVX3-E
	LGH-80RVX3-E
	LGH-100RVX3-E

## "New Remote Controller" Short Commissioning Time

New remote controller PZ-62DR-EB allows supply and exhaust air volume to be adjusted from FS1 to FS4 directly on one screen. It can also be operated while the fan motor is sensing the air volume.

By using PZ-62DR-EB, the commissioning time for LGH-RVX3 is reduced by 75%<sup>\*1</sup> compared to the previous RVX series when using PZ-61DR-E.

REDUCED  
**75%<sup>\*1</sup>**  
COMMISSIONING  
TIME



PZ-62DR-EB

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Point 1  
One screen for  
airflow commissioning

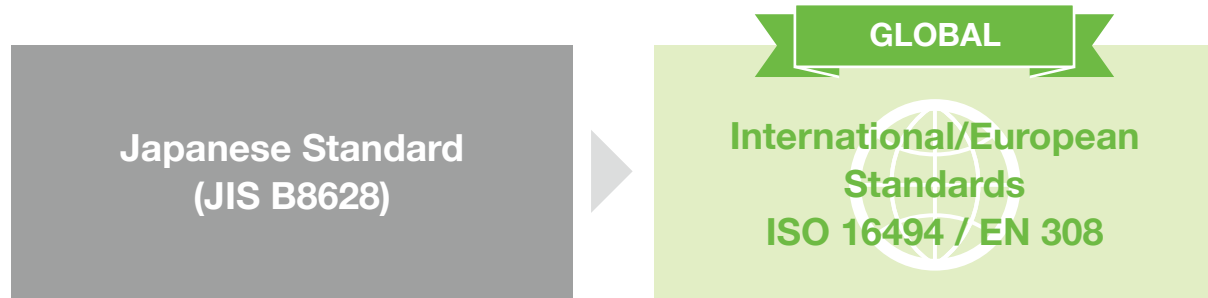
Point 2  
Direct input of  
airflow value

Point 3  
Can be operated even  
when the fan motor is  
sensing the air volume

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

# RVX3 is tested under International standards!

From the new RVX3 Series, LOSSNAY is tested under the latest ISO and EN international standards in place of the conventional JIS Japanese standard. Testing under the standards of European countries can more widely prove that LOSSNAY is ecological at the global level. Due to the change in testing standards, the method for testing temperature and enthalpy exchange has also changed, so that values are now shown to be lower than the previous model.



\*LGH-15/25/35/50RVX3-E is tested under ISO16494, LGH-65/80/100/160/200RVX3-E is tested under EN308 standards.

The **LOSSNAY RVX3 Series** also complies with the **ErP (Energy-related Products) Directive** which is required in the EU.

## RVX3 is ErP Compliant!

ErP stands for Energy-related Products and refers to products that have an impact on energy consumption during use.

Being ErP compliant proves that **products meet the regulation set out by the European Commission**. Compliance with ErP indicates that LOSSNAY is a high-efficiency, ecological product.

### Regulations for compliance with the ErP Directive

Model	Criteria
<b>Small Air Volume Model (15-50RVX3)</b>	1 Air volume can be controlled by 3 or more notches.
	2 Has a bypass mode.
	3 Complies with the required specific energy consumption.
	4 Shows a signal when filter exchange is needed.
<b>Large Air Volume Model (65-200RVX3)</b>	1 Air volume can be controlled by 3 or more notches.
	2 Has a heat recovery function.
	3 Has a bypass mode.
	4 Heat recovery rate for heating is 73% or more.
	5 Complies with the required specific fan power.

# Specifications & Dimensions

- LGH-15RVX3-E
  - LGH-25RVX3-E
  - LGH-35RVX3-E
  - LGH-50RVX3-E
  - LGH-65RVX3-E
  - LGH-80RVX3-E
  - LGH-100RVX3-E
- Pages 10 to 13

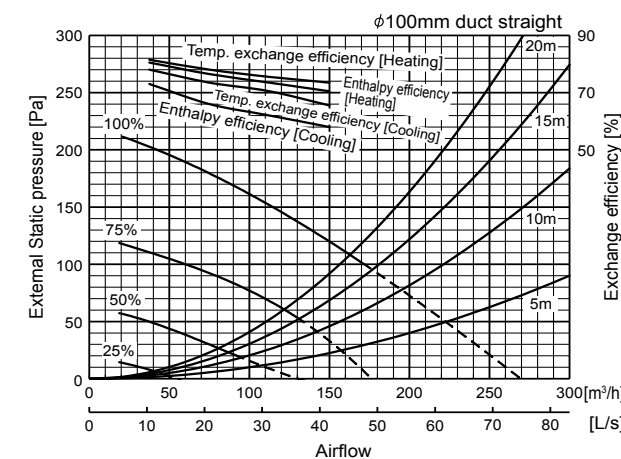
- LGH-160RVX3-E
  - LGH-200RVX3-E
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Model	LGH-15RVX3-E			
Electrical power supply	220-240V/50Hz, 220V/60Hz			
Fan speed	4	3	2	1
Default Airflow setting	100%	75%	50%	25%
Input power (W) <sup>1</sup>	55	30	15	10
Airflow <sup>1</sup>	(m <sup>3</sup> /h)	150	113	75
	(L/s)	42	31	21
Specific fan power [W/(L/s)] <sup>1</sup>	1.32	0.96	0.72	0.96
External static pressure (Pa) <sup>1</sup>	120	68	30	8
Temperature exchange efficiency (%) <sup>1</sup>	Heating	73.5	75.5	78.0
	Cooling	65.5	70.5	73.5
Enthalpy exchange efficiency (%) <sup>1</sup>	Heating	70.5	73.5	76.5
	Cooling	58.0	62.0	66.0
Noise (dB) <sup>2</sup>	27.0	22.0	18.0	17.0
Exhaust air transfer ratio (%) <sup>3</sup>	5			
Weight (kg)	20			

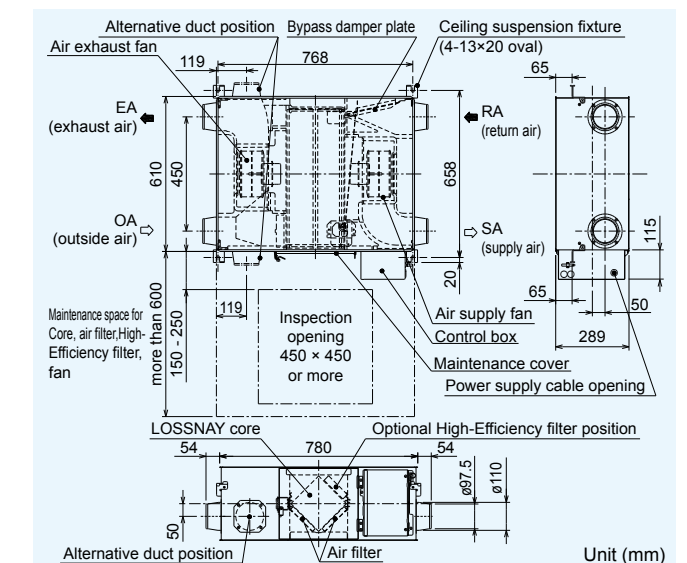
<sup>1</sup> Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.  
<sup>2</sup> \*1 : Measured according to ISO 16494-1: 2022 \*2 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.  
<sup>3</sup> \*3 : Measured according to EN308: 2022 / FS3

## Characteristic Curve of the LGH-15RVX3-E



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

## Dimensions of the LGH-15RVX3-E



• Certain ratings and specifications may change due to product improvements or modifications. • Refer to the product manual for safety precautions.



# LGH-25/35RVX3-E

# LGH-50/65RVX3-E

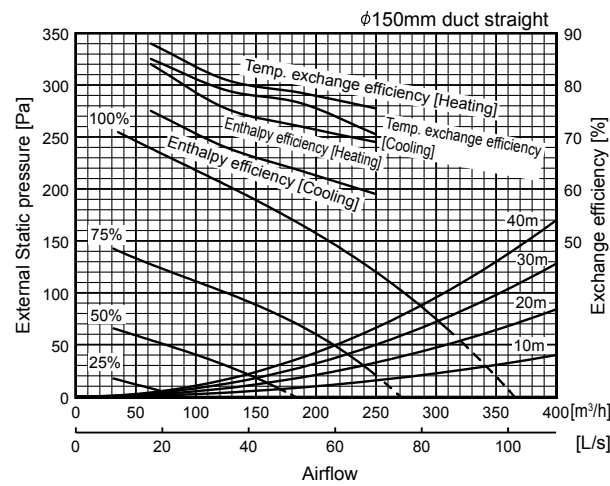
Model		LGH-25RVX3-E				LGH-35RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) <sup>1</sup>		75	42	21	11	120	61	29	15
Airflow <sup>1</sup>	(m <sup>3</sup> /h)	250	188	125	63	350	263	175	88
	(L/s)	69	52	35	17	97	73	49	24
Specific fan power [W/(L/s)] <sup>1</sup>		1.08	0.81	0.60	0.63	1.23	0.84	0.60	0.62
External static pressure (Pa) <sup>1</sup>		120	68	30	8	160	90	40	10
Temperature exchange efficiency (%) <sup>1</sup>	Heating	75.5	78.5	81.0	88.0	75.0	77.0	79.0	82.0
	Cooling	70.5	76.5	79.0	85.0	66.5	71.0	74.0	79.0
Enthalpy exchange efficiency (%) <sup>1</sup>	Heating	69.0	72.0	75.5	84.0	72.0	74.5	77.5	80.0
	Cooling	59.0	63.5	68.0	75.0	60.0	64.5	68.5	74.5
Noise (dB) <sup>2</sup>		30.5	25.0	19.5	17.0	30.5	24.5	19.0	17.0
Exhaust air transfer ratio (%) <sup>3</sup>		5				5			
Weight (kg)		22				30			

<sup>1</sup> Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.  
<sup>1</sup> : Measured according to ISO 16494-1: 2022  
<sup>2</sup> : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.  
<sup>3</sup> : Measured according to EN308: 2022 / FS3

Model		LGH-50RVX3-E				LGH-65RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) <sup>1</sup>		185	81	34	15	245	120	51	20
Airflow <sup>1</sup>	(m <sup>3</sup> /h)	500	375	250	125	650	488	325	163
	(L/s)	139	104	69	35	181	135	90	45
Specific fan power [W/(L/s)] <sup>1</sup>		1.33	0.78	0.49	0.43	1.36	0.89	0.56	0.44
External static pressure (Pa) <sup>1</sup>		150	85	38	10	150	85	38	10
Temperature exchange efficiency (%) <sup>2</sup>	Heating	70.5	71.5	73.5	75.0	72.5	75.0	78.5	82.0
	Cooling	63.5	67.0	71.0	73.0	65.0	70.0	74.5	80.0
Enthalpy exchange efficiency (%) <sup>2</sup>	Heating	68.5	69.5	72.0	73.0	69.5	72.0	76.5	80.0
	Cooling	53.5	58.0	63.0	68.0	55.5	60.0	66.5	74.0
Noise (dB) <sup>3</sup>		35.0	27.0	21.0	17.0	37.5	31.5	24.0	17.5
Exhaust air transfer ratio (%) <sup>4</sup>		5				5			
Weight (kg)		33				41			

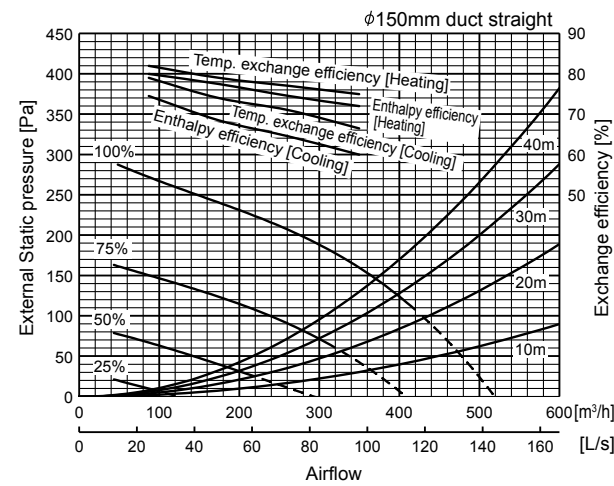
<sup>1</sup> Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.  
<sup>1</sup> : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65RVX3-E) EN13053: 2019  
<sup>2</sup> : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65RVX3-E) EN308: 2022  
<sup>3</sup> : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.  
<sup>4</sup> : Measured according to EN308: 2022 / FS3

## Characteristic Curve of the LGH-25RVX3-E



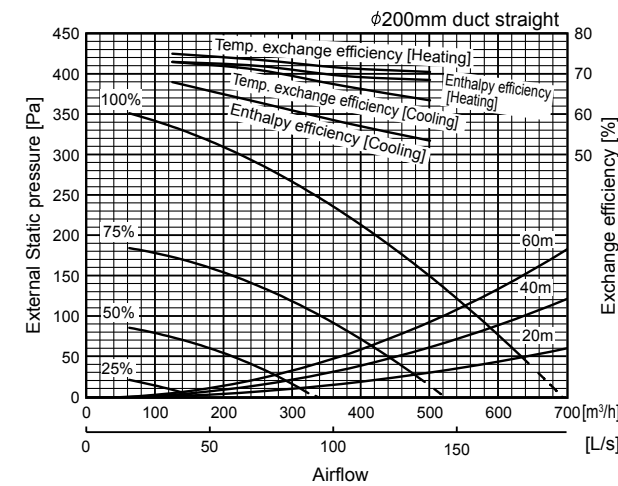
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-35RVX3-E



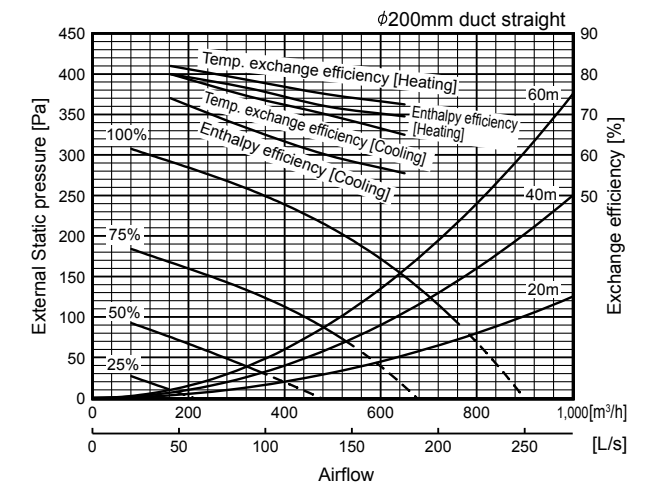
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-50RVX3-E



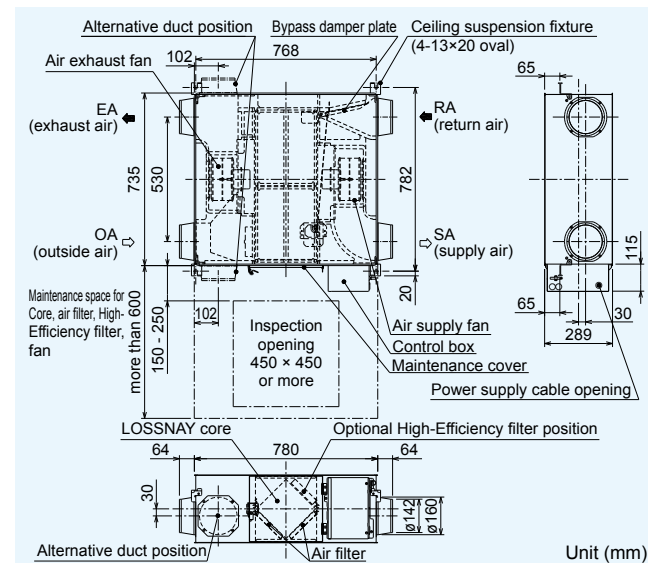
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-65RVX3-E

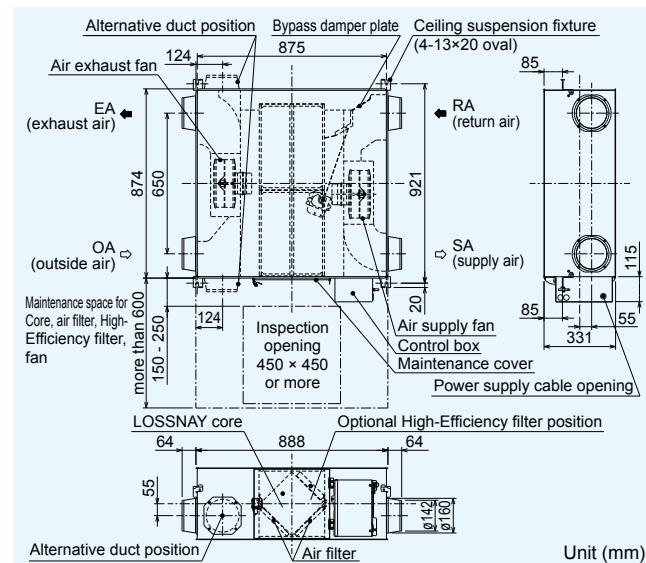


\*The dotted lines of the fan curves are reference values.

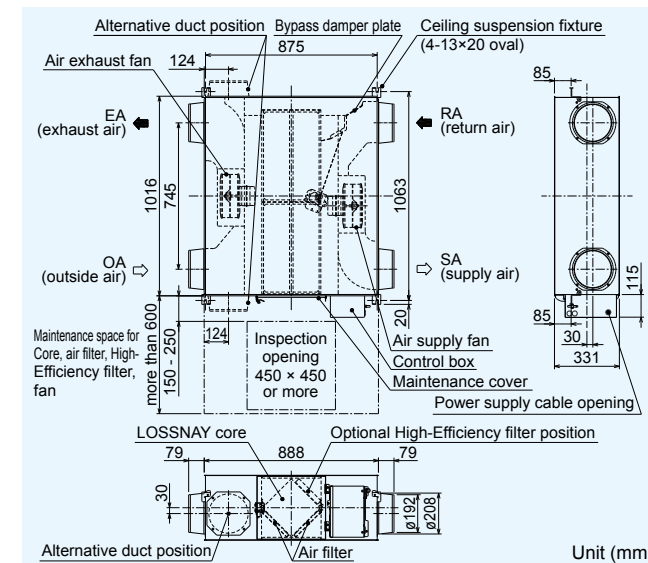
## Dimensions of the LGH-25RVX3-E



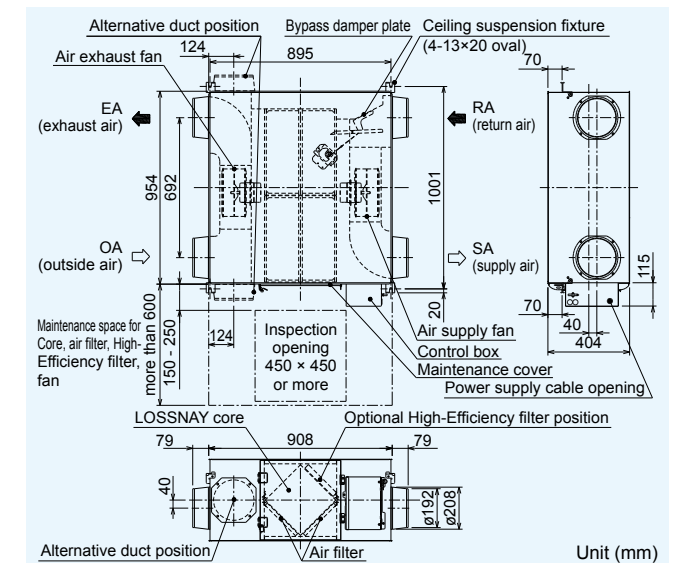
## Dimensions of the LGH-35RVX3-E



## Dimensions of the LGH-50RVX3-E



## Dimensions of the LGH-65RVX3-E



# LGH-80/100RVX3-E

# LGH-160/200RVX3-E

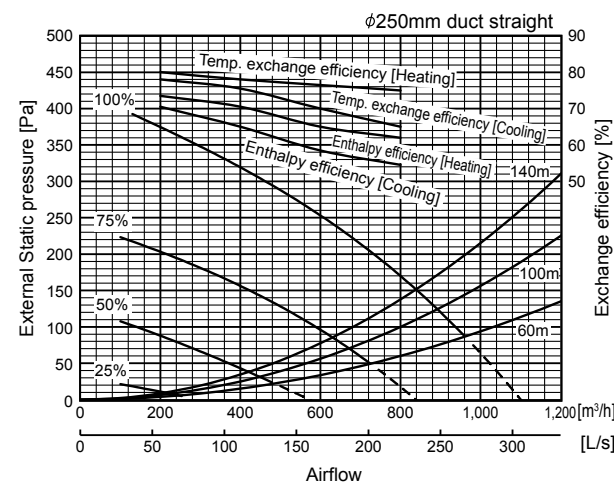
Model		LGH-80RVX3-E				LGH-100RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) <sup>1</sup>		343	160	64	23	438	210	83	27
Airflow <sup>1</sup>	(m <sup>3</sup> /h)	800	600	400	200	1000	750	500	250
	(L/s)	222	167	111	56	278	208	139	69
Specific fan power [W/(L/s)] <sup>1</sup>		1.54	0.96	0.58	0.41	1.58	1.01	0.60	0.39
External static pressure (Pa) <sup>1</sup>		170	96	43	11	190	107	48	12
Temperature exchange efficiency (%) <sup>2</sup>	Heating	75.0	76.5	78.0	80.0	75.5	77.0	79.5	83.5
	Cooling	65.0	70.0	75.5	78.0	67.5	72.0	77.0	82.5
Enthalpy exchange efficiency (%) <sup>2</sup>	Heating	62.0	65.0	70.5	73.5	60.5	63.0	68.5	75.5
	Cooling	54.5	58.5	65.0	70.5	55.5	61.0	66.0	73.5
Noise (dB) <sup>3</sup>		39.0	33.5	25.0	18.0	40.0	35.0	27.0	18.5
Exhaust air transfer ratio (%) <sup>4</sup>		5				5			
Weight (kg)		47				53			

\*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.  
<sup>1</sup>: Measured according to EN13053: 2019  
<sup>2</sup>: Measured according to EN308: 2022  
<sup>3</sup>: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.  
<sup>4</sup>: Measured according to EN308: 2022 / FS3

Model		LGH-160RVX3-E				LGH-200RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz							
Fan speed		4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%
Input power (W) <sup>1</sup>		687	324	128	45	855	416	163	57
Airflow <sup>1</sup>	(m <sup>3</sup> /h)	1600	1200	800	400	2000	1500	1000	500
	(L/s)	444	333	222	111	556	417	278	139
Specific fan power [W/(L/s)] <sup>1</sup>		1.55	0.97	0.58	0.41	1.54	1.00	0.59	0.41
External static pressure (Pa) <sup>1</sup>		170	96	43	11	170	96	43	11
Temperature exchange efficiency (%) <sup>2</sup>	Heating	75.0	76.5	78.0	80.0	76.5	77.5	79.5	83.5
	Cooling	65.0	70.0	75.5	78.0	66.5	71.5	76.0	82.5
Enthalpy exchange efficiency (%) <sup>2</sup>	Heating	62.0	65.0	70.5	73.5	60.5	64.0	67.5	76.0
	Cooling	54.5	58.5	65.0	70.5	57.0	60.0	65.0	71.0
Noise (dB) <sup>3</sup>		41.0	35.0	26.0	18.0	41.5	36.0	27.5	18.0
Exhaust air transfer ratio (%) <sup>4</sup>		5				5			
Weight (kg)		96				108			

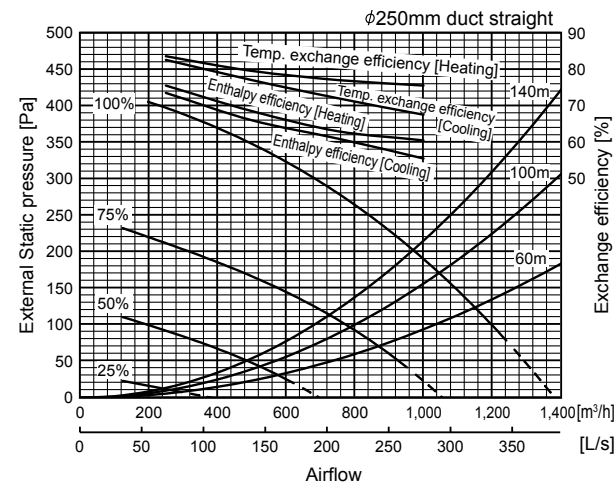
\*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz.  
<sup>1</sup>: Measured according to EN13053: 2019  
<sup>2</sup>: Measured according to EN308: 2022  
<sup>3</sup>: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber.  
<sup>4</sup>: Measured according to EN308: 2022 / FS3

## Characteristic Curve of the LGH-80RVX3-E



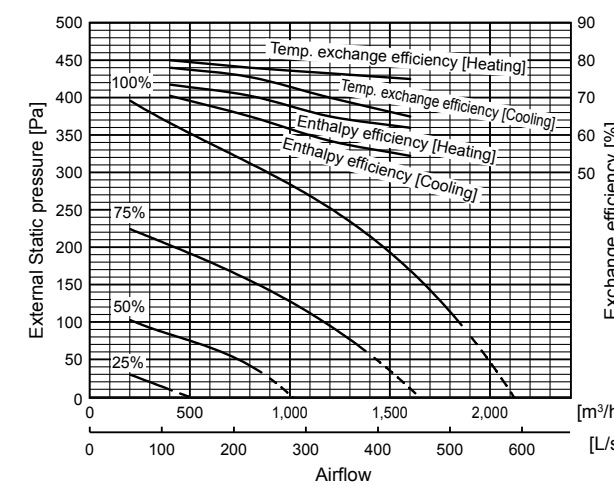
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-100RVX3-E



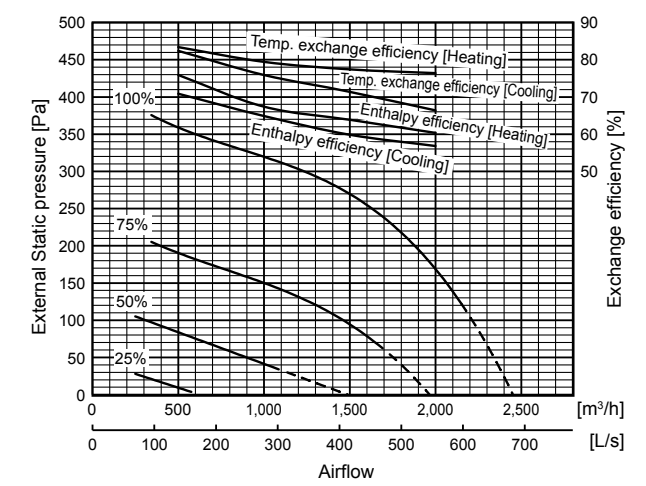
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-160RVX3-E



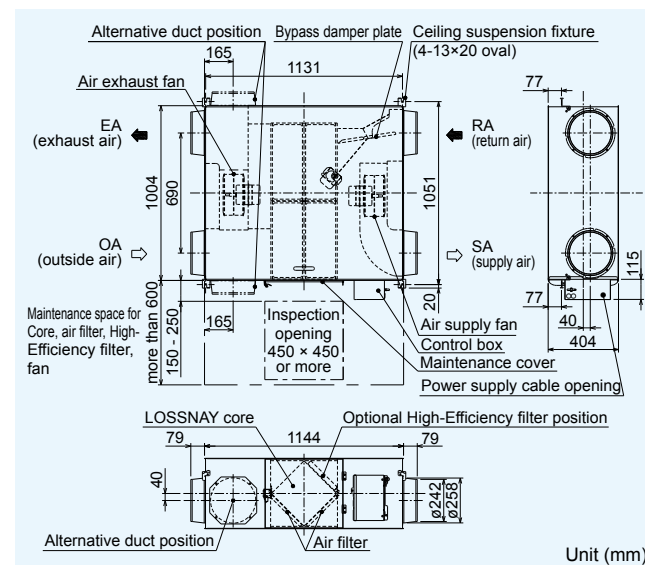
\*The dotted lines of the fan curves are reference values.

## Characteristic Curve of the LGH-200RVX3-E

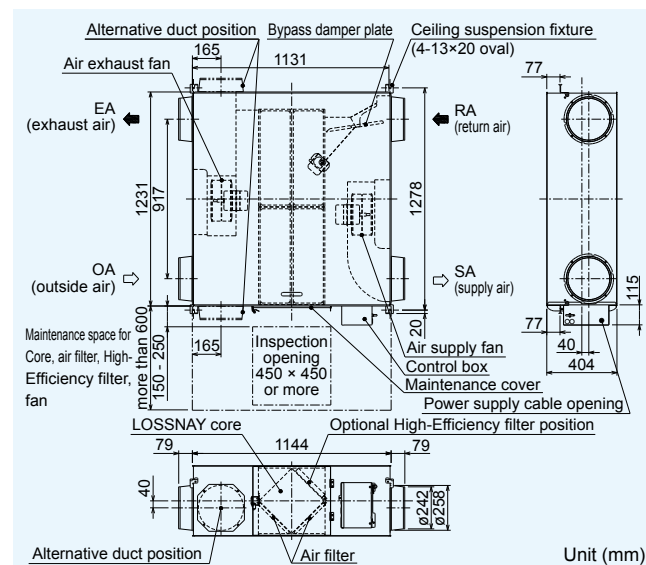


\*The dotted lines of the fan curves are reference values.

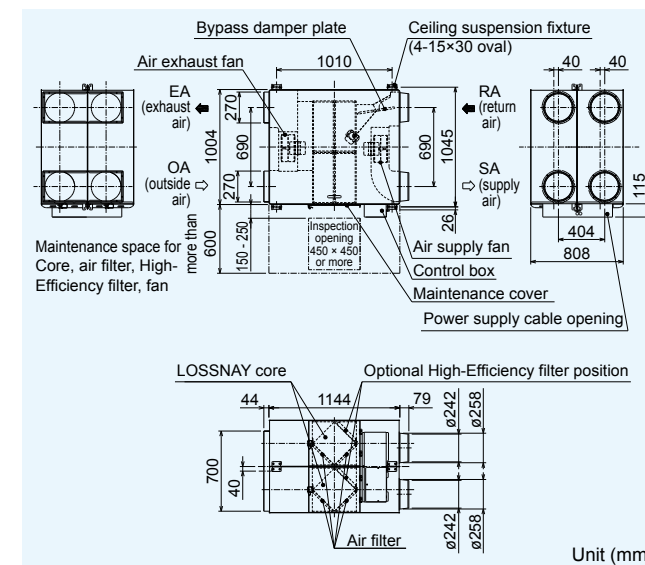
## Dimensions of the LGH-80RVX3-E



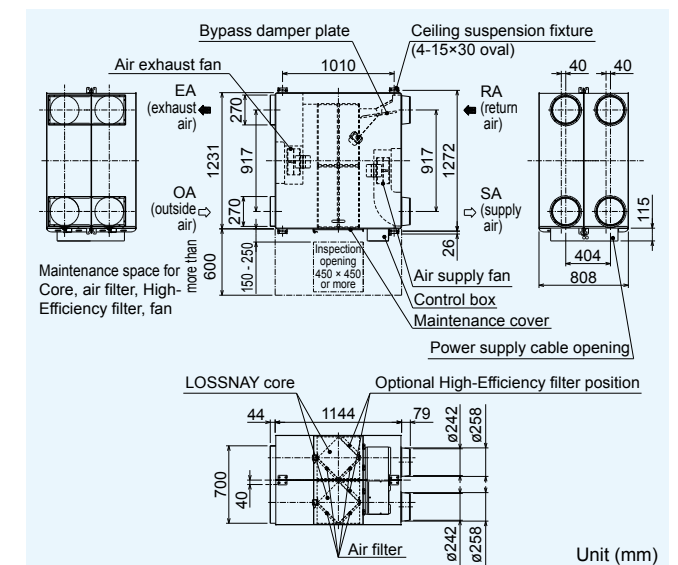
## Dimensions of the LGH-100RVX3-E



## Dimensions of the LGH-160RVX3-E



## Dimensions of the LGH-200RVX3-E



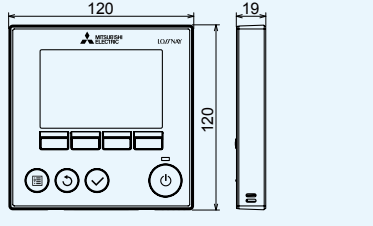
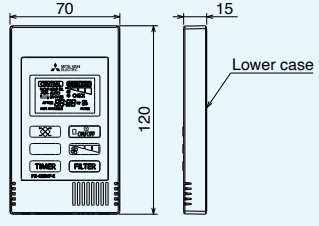




# Optional Parts

## Remote Controllers

### Compatibility Table

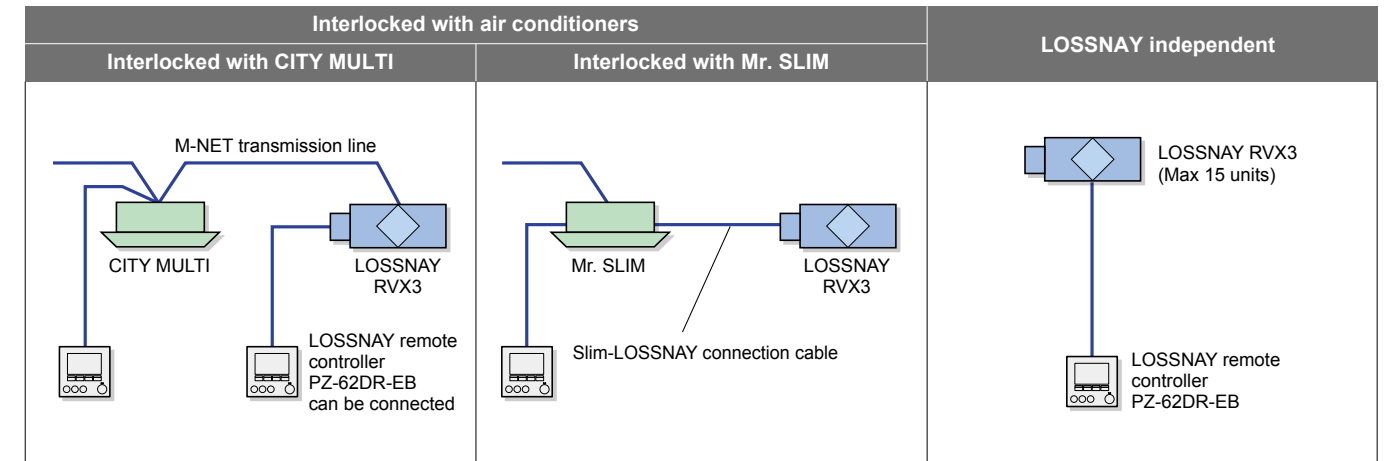
Model	PZ-62DR-EB	PZ-43SMF-E
Image		
Dimension	 Unit (mm)	 Unit (mm)
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO <sub>2</sub> sensor)	2 or 4 fan speeds
Control with a CO <sub>2</sub> sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO <sub>2</sub> concentration*)	No
Control with a CO <sub>2</sub> sensor (field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO <sub>2</sub> concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night-purge	Yes	No
Function setting from remote controller	Yes	No
Bypass temp. free setting	Yes	No
Flexible airflow setting	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No
ON/OFF timer	Yes	Yes
Auto-off timer	Yes	No
Weekly timer	Yes	No
Fan speed timer	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	No
Operation restrictions (fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (10 languages)	No (English only)
CO <sub>2</sub> concentration indication	Yes (Available when using a Mitsubishi Electric CO <sub>2</sub> sensor)	No
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes
LOSSNAY core cleaning sign	Yes	No
Error indication	Yes (Displays model name, serial number, contact information)	Yes
Error history	Yes	No
OA/RA/SA temp. display	Yes	No

\*When using a CO<sub>2</sub> sensor, upper and lower limits may differ.

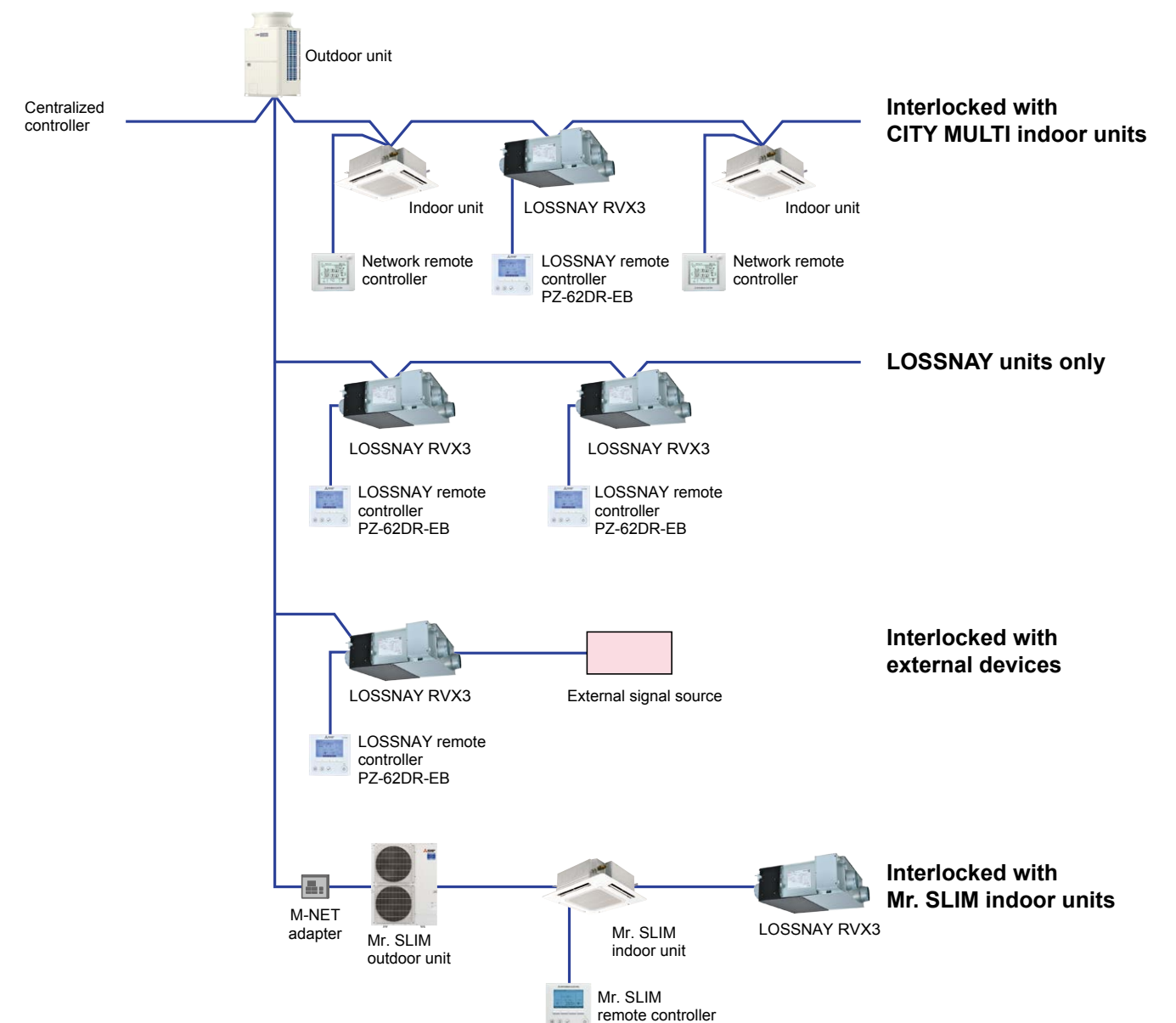
• Certain ratings and specifications may change due to product improvements or modifications.

## Control

### The new remote controller PZ-62DR-EB enables simple control setting



### Centralized controller system



# Optional Parts

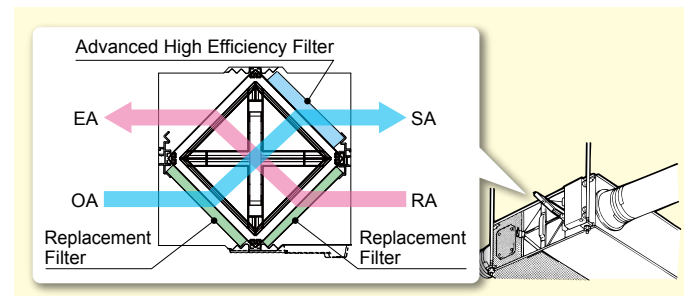
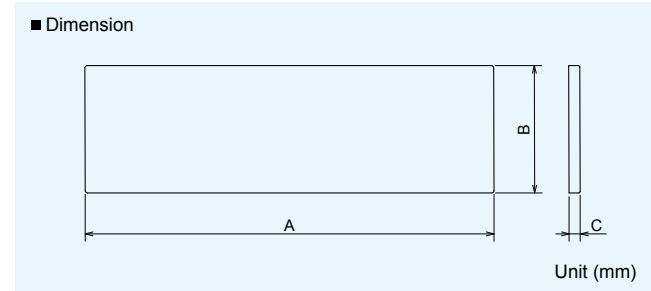
## Filters

Two types of filters are available to ensure optimum indoor air quality. All filters are ISO certified, and can be easily installed in the units.

### Performance

Model		PZ-RF3-E series	PZ-RFP3-E series
Name		Replacement Filter (Standard)	Advanced High Efficiency Filter <b>Optional</b>
Image			
Filter Material		Non-woven fabric	Synthetic fiber
Performance	ISO	Coarse 60% (ISO16890-2016)	ePM1 75%, ePM2.5 80%, ePM10 95% (ISO 16890-2016)
	ASHRAE	-	MERV16 (ASHRAE 52.2-2017)
	GB/T	-	YG class, 99.7% (GB/T 14295-2008) Collecting efficiency for particles 0.5µm or larger at rated airflow.

### Specifications and Dimensions



Model	Filter Dimension(mm)			Number of filters per set
	A	B	C	
PZ-15RF3-E	549	125	20	2
PZ-25RF3-E	654	151	15	2
PZ-35RF3-E	784	178	15	2
PZ-50RF3-E	926	178	15	2
PZ-65RF3-E	852	213	15	2
PZ-80RF3-E	890	238	15	2
PZ-100RF3-E	1117	238	15	2

Number of Purchase	
Applicable model	Required set per unit
LGH-15RVX3-E	1
LGH-25RVX3-E	1
LGH-35RVX3-E	1
LGH-50RVX3-E	1
LGH-65RVX3-E	1
LGH-80RVX3-E	1
LGH-160RVX3-E	2
LGH-100RVX3-E	1
LGH-200RVX3-E	2

Installation		
Total number of filters	OA	RA
	2	1
2	1	1
2	1	1
2	1	1
2	1	1
4	2	2
2	1	1
4	2	2

Model	Filter Dimension(mm)			Number of filters per set
	A	B	C	
PZ-15RFP3-E	542	104.5	25	1
PZ-25RFP3-E	322	128.5	25	2
PZ-35RFP3-E	390	158.5	25	2
PZ-50RFP3-E	461	158.5	25	2
PZ-65RFP3-E	423	197.5	25	2
PZ-80RFP3-E	442	215.5	25	2
PZ-100RFP3-E	554	215.5	25	2

Number of Purchase	
Applicable model	Required set per unit
LGH-15RVX3-E	1
LGH-25RVX3-E	1
LGH-35RVX3-E	1
LGH-50RVX3-E	1
LGH-65RVX3-E	1
LGH-80RVX3-E	1
LGH-160RVX3-E	2
LGH-100RVX3-E	1
LGH-200RVX3-E	2

Installation	
Total number of filters	SA
1	1
2	2
2	2
2	2
2	2
4	4
2	2
4	4

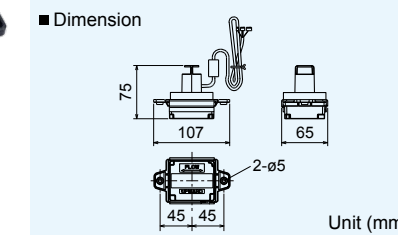
## CO<sub>2</sub> Sensors

A CO<sub>2</sub> sensor connected directly to the LOSSNAY RVX3 unit optimizes the fan speed according to the level of CO<sub>2</sub> detected.

### <Duct-mounted type> PZ-70CSD-E



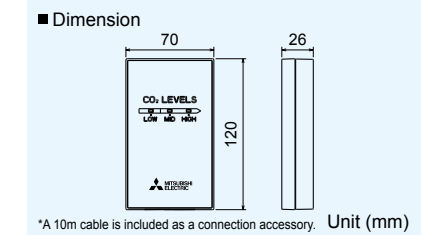
Mounted in the duct with all the wiring hidden in the ceiling.



### <Wall-mounted type> PZ-70CSW-E



Mounted on the wall. CO<sub>2</sub> is monitored in 3 levels.



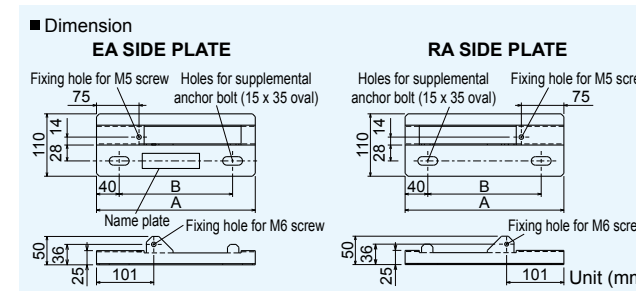
## Vertical Installation Plates

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



Parts used to install RVX3 vertically.

EA side plate RA side plate



### Change dimension table (Unit:mm)

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

\*Not applicable to LGH-160/200RVX3-E

## Duct Silencer



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

### Specifications

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

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

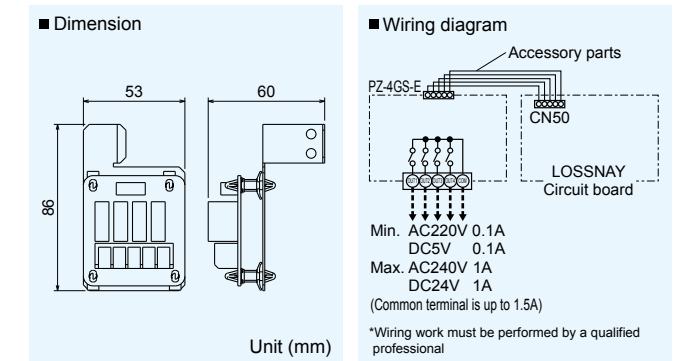
• Certain ratings and specifications may change due to product improvements or modifications.

## Signal Output Terminal

### PZ-4GS-E

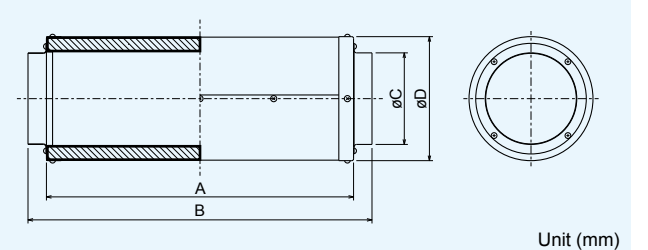


RVX3's PCB has only 1 output terminal. By using PZ-4GS-E, 4 more output terminals can be added to RVX3.



Unit (mm)

### Dimensions



### Change dimension table (Unit:mm)

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