



Lossnay

Models:

LGH-15RVX-E

LGH-25RVX-E

LGH-35RVX-E

LGH-50RVX-E

LGH-65RVX-E

LGH-80RVX-E

LGH-100RVX-E

LGH-150RVX-E

LGH-200RVX-E

Operating Instructions



Lossnay Energy Recovery Ventilator

MODELS:

LGH-15RVX-E, LGH-25RVX-E, LGH-35RVX-E LGH-50RVX-E, LGH-65RVX-E, LGH-80RVX-E LGH-100RVX-E, LGH-150RVX-E, LGH-200RVX-E

Operating Instructions

(For the user)

Please read this manual carefully before use for proper and safe use.

Do not attempt to install the product by yourself.

Safety precautions

The following signs indicate that death or serious injury may be caused by failure to heed the precautions described below.



/ WARNING

-	WAINING									
	\Diamond	Do not turn the unit on or off when flammable gas has leaked. (It could catch fire or cause explosion with sparks released from electric contractor.)	Wet hands prohibited	Do not operate with wet hands. (Electrical shock can result.)						
	Prohibited	Open windows to ventilate.		Use the specified power supply and voltage. (Use of incorrect power supply could cause fire or						
-	Do not disassemble	Do not modify or disassemble. (It could cause fire, electric shock or injury.)		electric shock.)						
			The instructions given must be followed.	Make sure the power supply isolator is turned off on the power distribution panel before starting maintenance.						
	Do not wet	Do not apply water to the unit and remote controller. (Electrical shock can result.)		(It could cause electric shock or injury if it is turned on.)						
				When any abnormal conditions (burning smell, or others) are observed, stop operation, turn off the						
	Do not touch	Do not poke your fingers or sticks into the air intake and outlet while the product is operating. (Failure to heed this warning may result in injury.)	iollowed.	power supply isolator on the power distribution panel and consult your dealer. (Continuing operation under such conditions could cause, electric shock, fire, or damage.)						

Do not place a burning appliance in a place where it is exposed directly to the wind from Lossnay. (It could cause an accident as a result of incomplete combustion.)

Do not operate with the "BY-PASS" when heating the room in winter.

(Condensed water may drip from the unit and wet the surface of ceiling.)

Do not use at a place where exposed to high temperatures (40°C or higher), naked flames, or in environment with heavy fumes.

(It could cause fire.)

Do not use in an environment such as a chemical factory, where hazardous gases such as acidic gases, alkaline gases, organic solvent fumes, paint fumes, or gases containing corrosive components are generated.

(It could malfunction.)



The instructions given must be followed

Securely install parts after maintenance. (It could cause injury if parts fall.)

Put on gloves during maintenance. (It could cause injury.)

Make sure the power supply isolator is turned off on the power distribution panel when Lossnay is not used for a long period of time.

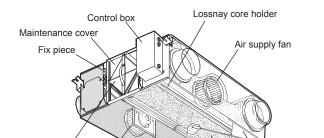
(It could cause electric shock, power leakage, or fire as a result of deteriorated insulation.)

This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

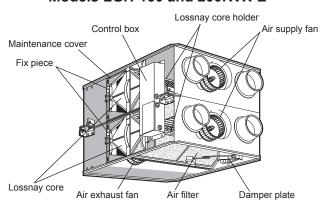
(This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.)

Names of the parts

Models LGH-15 to 100RVX-E



Models LGH-150 and 200RVX-E



Operation

Lossnay coré

Air exhaust fan

Lossnay can be connected with Lossnay remote controller (PZ-61DR-E), and other Systems (City Multi, Mr.Slim, Central controller (MELANS))

Following shows the use of PZ-61DR-E. Please refer to the manuals for the other systems. For connection of a Lossnay remote controller (PZ-61DR-E)

Damper plate

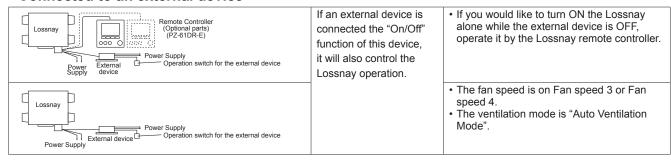
Air filter

If the Lossnay's operation is linked with the operation of an external device such as an air conditioner, the method of use will differ, so carry out the appropriate operation in accordance with the following table. Also, please see the installation and user manual for the Lossnay remote controller (PZ-61DR-E).

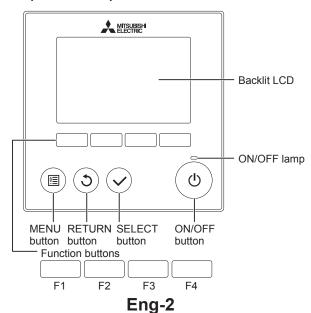
<Not connected to an external device>

Example of System	Operation	Function			
Lossnay Remote Controller (Optional parts) (PZ-81DR-E)	Run using the remote controller.	If 2 remote controllers are used, the last controller to be used has priority. (Last Command)			

<Connected to an external device>



■ Display and Function button (PZ-61DR-E)



Operation (continued)

■ LOSSNAY ENERGY RECOVERY VENTILATE setting

Both fresh air supply and return air pass through the energy recovery cores. Energy recovery ventilation makes the fresh air temperature close to the indoor temperature in the winter and the summer season.

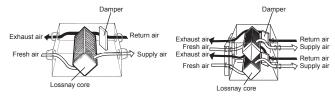
Models LGH-15 to 100RVX-E Models LGH-150 and 200RVX-E



■ BY-PASS VENTILATE setting

The fresh air passes through the Lossnay cores and the return room air is exhausted direct. Lossnay By-pass ventilate is normally operated during the spring/autumn season.

Models LGH-15 to 100RVX-E Models LGH-150 and 200RVX-E



■ AUTOMATIC VENTILATION setting

The automatic ventilation mode automatically provides the correct ventilation for the conditions in the room. The following shows the effect "By-pass" ventilation will have under various conditions.

1. Reduces cooling load

If the air outside is cooler than the air inside the building during the cooling season (such as early morning or at night), "By-pass" ventilation will draw in the cooler outside air and reduce the cooling load on the system.

2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that has accumulated in buildings a business district during the hot summer season.

3. Office equipment room cooling

During cold season, fresh air can be drawn in and used as is to cool rooms where the temperature has risen due to the use of office equipment.

A CAUTION

- In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the unit motors
- When set to auto ventilation mode while using the pre-heater function, the outdoor temperature may be detected as higher and the mode may change to by-pass mode, even in winter.

Maintenance

Remove all dust and dirt on air filters and Lossnay cores at regular intervals in order to prevent a deterioration in the Lossnay functions. Guideline: Clean the air filters once a year.

(or when are indicated on the remote controller)

Clean the Lossnay cores once two year.
(Clean the Lossnay cores once a year if possible.)
(Frequency should be increased depending on the extent of dirt.)

3) Air filters

After pulling out the Lossnay cores, undo filter guides, then remove the air filters, located at the bottom left and right of the Lossnay cores, as below.

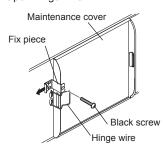


Model LGH-15RVX-E: 1 core, 2 filters Models LGH-25 to 100RVX-E: 2 cores, 4 filters Models LGH-150 and 200RVX-E: 4 cores, 8 filters

Removing the parts

1) Maintenance cover

- 1. Remove the black screw.
- 2. Slide the fix piece to out side.
- 3. Open hinge wire.



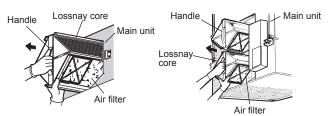
Models LGH-150 and 200RVX-E have 2 fix pieces.

⚠ CAUTION

- Bow filter stoppers a little to remove them from filter guide.
- Take filter stoppers careful not to break them.

2) Lossnay cores

Take hold of the handle and draw the Lossnay cores out from the main unit.



Models LGH-15 to 100RVX-E Models LGH-150 and 200RVX-E

Cleaning the parts

1) Air filters

Use a vacuum cleaner to remove light dust. To remove stubborn dirt wash in a mild solution of detergent and lukewarm water. (under 40°C)



A CAUTION

- Never wash the filters in very hot water and never wash them by rubbing them.
- Do not dry the filters by exposing them to a flame.

Maintenance (continued)

2) Lossnay cores

Use a vacuum cleaner to suck up the dust and dirt on the exposed surfaces of the Lossnay cores.

Use a soft brush only to clean exposed surface areas.

Do NOT wash in water.



A CAUTION

- Do not use the hard nozzle of the vacuum cleaner. It may damage the exposed surfaces of the Lossnay cores.
- Under no circumstances should the Lossnay cores be washed in water

Assembly after maintenance

Bearing in mind the following points, assemble the parts following the sequence for their removal in reverse.

- Arrange the Lossnay core with the air filter side downward.
- The filter for LGH-15 and 35RVX-E has front and back side. Set the "FRONT" (printed) side of the filter on the outer side.

Note

• If **##** are indicated or the remote controller, turn off the indication, after maintenance.

Specifications

	Running current (A)	0.00			Static pressure	Exchange efficiency (%)			Noise (dB)	
Model name				(L/S)	(Pa)	Temperature	Enthalpy		Dalam tha mait	Weight (kg)
							Heating	Cooling	Below the unit	(1.9)
LGH-15RVX-E	0.40	49	150	42	95	80	73	71	28	20
LGH-25RVX-E	0.48	62	250	69	85	79	69.5	68	27	23
LGH-35RVX-E	0.98	140	350	97	160	80	71.5	71	32	30
LGH-50RVX-E	1.15	165	500	139	120	78	69	66.5	34	33
LGH-65RVX-E	1.65	252	650	181	120	77	68.5	66	34.5	38
LGH-80RVX-E	1.82	335	800	222	150	79	71	70	34.5	48
LGH-100RVX-E	2.50	420	1000	278	170	80	72.5	71	37	54
LGH-150RVX-E	3.71	670	1500	417	175	80	72	70.5	39	98
LGH-200RVX-E	4.88	850	2000	556	150	80	72.5	71	40	110

- * The above values apply during Lossnay ventilation when the fan speed is set to Fan speed 4 at the rating pressure loss and 230 V / 50 Hz.
- * For the specifications at the other frequency or voltages, contact your dealer.
- * The values given in the table for the noise level reflect the levels measured at a position 1.5 meters immediately below the unit in an anechoic chamber.
- * Noise change or increase may occur because of the Bypass-Automatic function or Automatic fan speed change by timer setting and/or other functions
- * Temperature Exchange efficiency (%) are based on winter condition.
- * Mitsubishi Electric measures products according to Japan Industrial Standard (JIS B 8628), therefore Q-H curves are measured by chamber method.
- * On-site commissioning measurements by pitot tube method could be as much 20% difference from JIS test room conditions. If the measuring point is close to sources of turbulence like bends, contractions and dampers etc, it is difficult to measure air volume correctly. A straight duct length more than 10D (D=duct diameter) from the source of turbulence is recommended for correct measurement. On-site measurement should therefore be measured in accordance with BSRIA guideline (Commissioning Air System. Application procedures for buildings AG3/89.3(2001))

After-sales servicing

Consult with your dealer about the after-sales services provided for this Lossnay product.

noticed?

If you hear strange sounds, if no air is blown out or if some other trouble occurs, switch off the power and contact your dealer. Consult with your dealer concerning the cost of inspection or repair work.

Attentive inspection

Inspect your unit of good service!

- Fan do not run when the unit is turned on.
- Abnormal noises or vibrations while the unit is running.
- Have you Retarded or irregular rotations.
 - (Motors are component which requires maintenance.)
 - Corroded or damaged installation section.



Turn off the unit. Then, contact your dealer for prevention of failure or hazard. The dealer should appraise the possible cost.

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