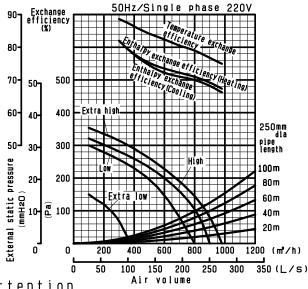
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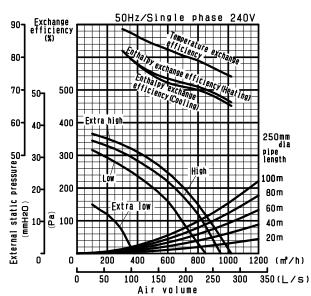
# LGH-80RX5-E

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Heat exchange system Air-to-air total heat exchange(sensible heat + latent heat exchange)									
Heat exchange element material   Partition·spacing plate-special treated paper									
Cladding		Galvanized :	steel sheet						
Heat insulating mater	rial	Self-exting	uishing uret	hane foam					
Motor		Totally enc	losed capaci	tor permanen	t split-phas	e induction	n motor.4 po	les, 2 units	
Blower		245mm dia. (	Centrifugal	fan					
Filter material		Non-woven f	abrics filte	r (Gravitatio	nal method 8	2%, EU-G3)			
Applicable air condit setting environment	tion of	The setting	air conditi	on shall be	between -10℃	to 40°, 80%	RH or less.		
Applicable air condi		OA temperat	ure shall be	-15°C to +40	C, 80%RH, o	r less,with	general air	conditionin	<u></u> g
range of outdoor a	nd indoor	room enviro							
Functions			tilation/Byp	<u>ass ventilat</u>	ion High(E	xtra high)-L	<u>ow-Extra Low</u>	switching	
Weight		53kg							
Frequency/ Power sou	ırce	50Hz/Singl							
Ventilation mode		Lossnay ventilation Bypass ventilation							
Fan speed		Extra high	High	Low	Extra low	Extra high	High	Low	Extra low
Current	( A )	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65	1.75-1.75	1.6-1.6	1.45-1.45	0.60-0.65
Power consumption	( W )	380-415	345-370	315-340	125-145	380-415	345-370	315-340	120-145
Air volume	(m³/h)	800	800	700	355	800	800	700	355
MI ANIAME	(L/s)	222	222	194	99	222	222	194	99
External static	(mmH <sub>2</sub> 0)	14.8-15.3	10.7-12.2	8.2-9.7	2	14.8-15.3	10.7-12.2	8.2-9.7	2
pressure	(Pa)	145-150	105-120	80-95	20	145-150	105-120	80-95	20
Temperature exchange efficien	ncy (%)	79.0	79.0	80.5	87.5	_	-	-	_
Enthalpy exchange	Heating	71.0	71.0	72.5	79.5	_	_	-	-
efficiency (%)	Cooling	70.0	70.0	71.5	79.5	_	_	-	_
Noise (dB) the center an anechoi		33.5-34.5	32-33	30-31	22	34.5-35.5	3 3 - 3 4	31-32	22
Starting current		Under 3.8	A less						
Insulation resistance	9		ore (500V m	legger)					
Dielectric strength		AC 1500V							
■ Charact	eristi								

## Characteristic





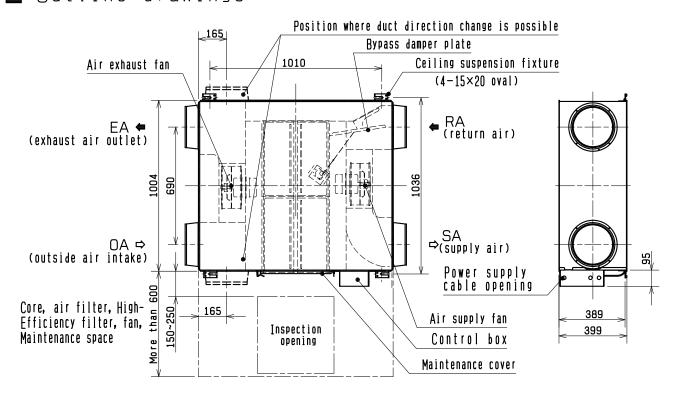
### Attention

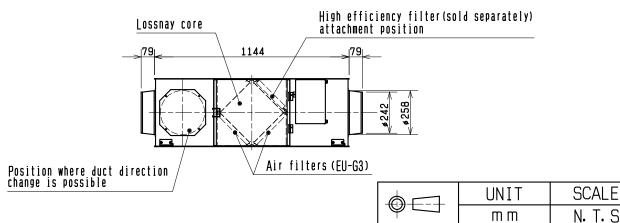
- 1.Lossnay stops supply fan for 10min every 60min while detecting OA temperature lower than -10℃.
- 2. The current, power consumption and efficiency are based on the above air flow rate.
- 3. Fan speed is changed by remote controller. Multi Ventilation Mode should be set on the unit or RC (PZ-60DR-E).
- 4. Lossnay ventilation mode starts automatically while detecting OA temperature lower than 8°C, even Bypass mode is selected. Remote controller continues to display "Bypass ventilation" in this case.

  5. The noise level at 1.5m away from outlets in the 45° direction is about 16dB greater than the indicated value at high speed.
- 6. Temperature Exchange efficiency (%) is based on winter condition.
- 7. Mitsubishi Electric measures products according to Japan Industrial Standard(JIS B 8628), therefore Q-H curves are measured by chamber method.
- & In United Kingdom, on-site 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 Systems. Application procedures for buildings AG3/89.3(2001))

MITSUBISHI ELECTRIC CORI	10-Apr13	MODEL NUMBER	LGH-80RX5-E ND108084B	(50Hz) 1 / 5
SPECIFICATIONS	DATE	TYPE	CEILING RECESSED	LOSSNAY

## Outline drawings

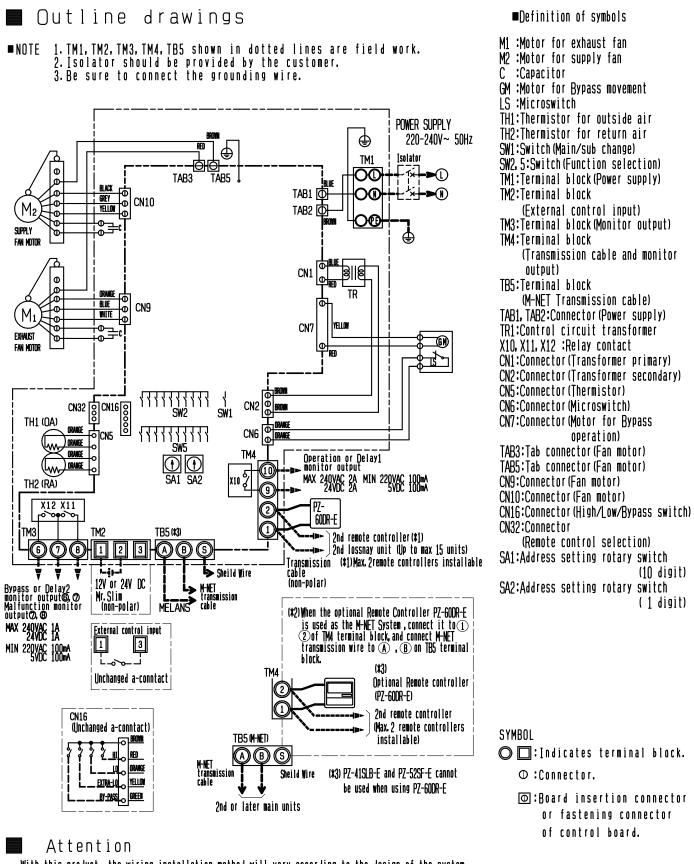




### Attention

- 1. When using the product where it is exposed to high temperatures and humidity (40°C or higher, RH 80% or higher), or where fog occurs frequently, moisture is likely to condense in the core, and may result in condensation build up in the unit. The product should not be used under such conditions.
- Outdoor air may enter the Lossnay owing to the pressure difference between indoor and outdoor or external
  winds even when the product is not operated. It is recommended to install an Electrically operated damper to
  block the outdoor air.
- 3. In a cold weather area, an area with strong external winds or where fog occurs frequently, cold outdoor air, external winds or fog may be introduced into the product when its operation is stopped. It is recommended to install an Electrically operated damper.
- 4. In a cold weather area, or others, dewing or freezing could occur on the main unit, where the duct is connect -ed, or other sections, depending on the conditions of outdoor air and indoor temperature and moisture, even if they are within the range of operating conditions. Make sure to confirm the operating conditions and other precautions, and do not use the product if dewing or freezing is anticipated.
- 5. The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor louvres from Lossnay, and properly insulated.
  - (The entry of rain water may cause power leakage, fire, or damage to household property)
- 6. The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming.
- If it is expected that the ambient temperature around the place where the Lossnay unit is installed will be high during the summer air conditioning season, it is recommended that the indoor ductwork be covered with insulation material.
- 7. Inspection opening (450×450 or 600×600mm) must be installed on the filter and Lossnay core removing side.

MITSUBISHI ELECTRIC CORI	PORATION	NUMBER	ND108084B	2/5
OOTETNE BRAWINGS	10-Apr13	MODEL	LGH-80RX₅-E	(50Hz)
OUTLINE DRAWINGS	DATE	TYPE	CEILING RECESSED	LOSSNAY



With this product, the wiring installation method will vary according to the design of the system. Perform electrical installation to meet local electrical regulations.

- ·Always use double insulated PVC cable for the transmission cables.
- ·Wiring work must be performed by qualified professionals.
- All supply circuits must be disconnected before obtaining access to the terminal devices.

WIRING DIAGRAM	DATE	TYPE	CEILING RECESSED	
	10-Apr13	MODEL	LGH-80RX₅-E	(50Hz)
MITSUBISHI ELECTRIC COR	PORATION	NUMBER	ND108084B	3/5

#### Lossnay model selection advices

- 1. Operating environment
  Install this product in an environment where the temperature ranges from -10°C to +40°C and the relative humidity is less than 80%RH. If condensation is expected to form, heat up the fresh outside air should be treated.
- 2. Do not use under high temperature and humidity condition Condensation will occur and water will gather inside the Lossnay cores under high temperature and humidity condition, such as warm swimming pool, bathroom, greenhouse or foggy place.
- 3.Condition of outdoor, indoor and return air Avoid using Lossnay under air condition with acid, alkalis, organic solvent , oil mist, paint, or harmful gas as presticide, corrosive gas, etc.
- 4. Insulation failure caused by salt or sulphur air and hot spring steam, Rust, fire or malfunction may occur. Installing high quality filters inside outdoor air duct if the Lossnay operates in salt or sulphur air conditions.
- 5. Intake of mist or outdoor air during off-mode operation
  Outdoor air or mist may flow through the duct into your room when Lossnay is in off-mode at windy and foggy area.
  To prevent intake of outdoor air or fog, a damper is advised to be installed.
- 6. Entry of insects
  When using the product in an environment where there is a window, or opening near the outdoor hood, so that insects are likely to gather around the interior or exterior light, take note that small insects may intrude into the Lossnay filters.
- 7. By-pass ventilation
  In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the effect around the ducts or the unit motors.
- 8. Usage of M-NET.
  When solely using Lossnay units, power supply unit is required to connect to centralized control.
  Number of power supply units or the transmission boosters should correspond with the connected Lossnay units.

#### Caution for installation

- 1. Do not modify the unit as it may cause malfunction.
- 2. Do not install Lossnay unit vertically or on an incline. It may cause malfunction or deterioration of performance.
- Leaving sufficient space for maintenance purpose.
- 4. The location of the air inlet Take care in locating air inlet to prevent intake of dirty air or disgusting smell from exhaust gas of factory, air from rubbish disposal, etc.
- 5. Take precautions when using the product in a quiet location.
- 6. Heat insulation foam for duct Take care as below to prevent the contaminate ceiling by duct condensation.
  - The two outdoor ducts (OA and FA) must be covered with heat-insulating material in order to prevent condensation.
  - ② If it is expected that the ambient temperature around the place where the Lossany unit is installed will be high during the summer air conditioning season, it is recommended that the indoor ductwork be covered with insulation material.
  - ©Outdoor air may come into unit during not operating unit by the pressure difference between indoor and outdoor or the outdoor wind. In this case you should install a damper.
  - ⊕It is possible for condensation and freezing to occur in the cold regions inside the unit because of the outdoor air condition or humidity condition above ceiling. Make sure to install supplemental insulation foam.
  - ⑤In the case that air condition around Lossnay unit is high temperature in summer, it is recommended that there are heat insulation foam on indoor side duct to prevent heat recovery decreased by warming indoor duct. In winter, it is possible to cool indoor side duct without heat insulation foam on indoor side duct.

MITSUBISHI ELECTRIC COR	PORATION	NUMBER	ND108084B	4/5
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SAFFTY NOTES	DATE	TYPE	CEILING RECESSED	LOSSNAY

7. Prevent entry of rainwater into Lossnay unit

Install weather louvre or 'Weather cover' for OA inlet & EA outlet. This is to prevent rainwater entering the Lossnay unit. Ducts to outdoor(OA and EA)should decline by 1/30 or more.

- ❶ Install the anchor bolts to ensure the product's weight or earthquake load. (Correctly rated wire∕chain may also be used)
- ② Do not install this product in a place where it is exposed to ultraviolet light. (UV may be damage covering insulation.)
- 8. Electrical Work

A single pole isolator must be installed at the origins of mains power supply. Use single flush box, to support remote controller. Must connect ground wiring.

When connecting external devices (electrically operated damper, lamp, monitoring unit, etc.) using output signals of the lossnay unit, make sure to install safety equipment for the external devices. (It could cause fire, damage, etc. without safety equipment)

#### Maintenance

Refer to each model's operation instructions for the suggested maintenance period and methods. General indication of lifetime of the main parts is as below. Time below is unrelated to guaranteed period for service. And parts exchange period varies with usage condition.

around 10 years with maintenance as stated periods.
around 5 years with maintenance as stated periods
3000 hours (Optional Parts)
30000 hours Lossnay cores Air Filters

High efficiency filters

Motor

MITSUBISHI ELECTRIC COR	PORATION	NUMBER	ND108084B	5/5
JAILII NOTES	10-Apr13	MODEL	LGH-80RX₅-E	(50Hz)
SAFFTY NOTES	DATE	TYPE	CEILING RECESSED	LOSSNAY