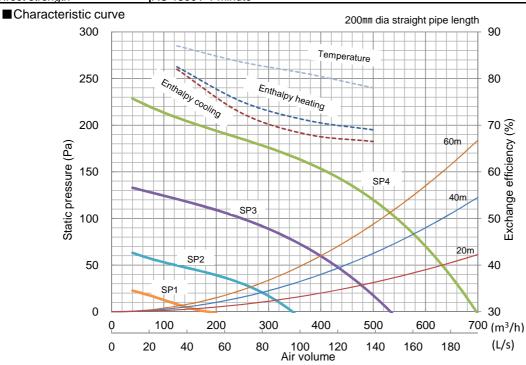
MODEL

LGH-50RVX-E

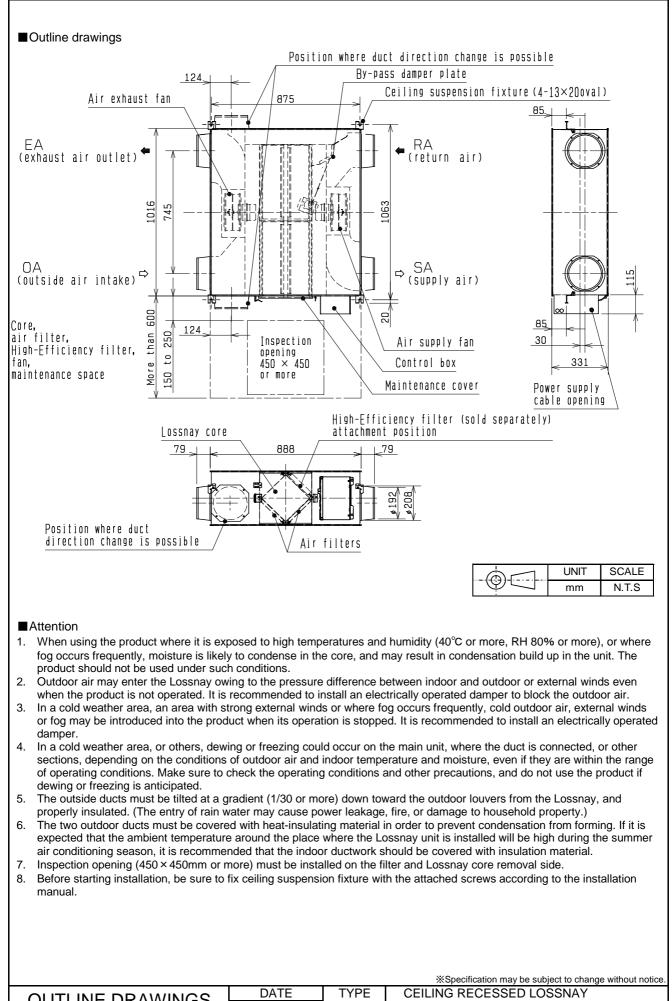
IVIC	JDEL		LGH-C					SIGIN				
Heat excha	nge system	Heat recove	ery ventilating	g system								
Heat excha	nger material	Special trea	Special treated paper plate heat exchanger									
Cladding			Galvanized steel sheet									
Heat insula	tion material	Self-extingu	Self-extinguishing urethane foam									
Motor		EC motor										
Blower		220mm dia	220mm diameter centrifugal fan									
Filter		Non-woven	Non-woven fabrics filter (Gravitational method 82% EU-G3)									
Surrounding air condition		Shall be be	Shall be between -10°C and 40°C, 80%RH or less									
Suction air condition		Shall be lov	Shall be lower than 40°C, 80%RH									
Supply fan	operation under	-10°C to -15°C : Intermittent operation 60 min ON, 10 min OFF.										
low outdoor	temperature	-15°C or less : Intermittent operation 55 min OFF, 5 min ON.										
Function		Heat recovery ventilation/ Bypass ventilation, Fan speed 1,2,3,4										
Weight		33kg										
Electrical power supply		220-240V/50Hz, 220V/60Hz										
Ventilation	mode		Heat recovery mode				Bypass mode					
Fan speed		SP4	SP3	SP2	SP1	SP	°4	SP3	SP2	SP1		
Running cu	rrent [A]	1.15	0.59	0.26	0.13	1.1	5	0.59	0.27	0.13		
Input power		165	78	32	12	17	-	81	35	14		
Air volume	<u>[m³/h]</u>	500	375	250	125	50	0	375	250	125		
	[L/s]	139	104	69	35	13	9	104	69	35		
External sta	tic pressure [Pa]		68	30	8	12	0	68	30	8		
Exchange	Temperature	78.0	81.0	83.5	87.0	-		-	-	-		
efficiency	Enthalpy Heatin	g 69.0	71.0	75.0	82.5	-		-	-	-		
[%]	Coolin	g 66.5	68.0	72.5	82.0	-		-	-	-		
Noise	[dB]		28.0	19.0	18.0	35.	.0	29.0	20.0	18.0		
Insulation re	esistance		$10M\Omega$ or more									
Direct strength		AC 1500V 1	I minute									



Attention

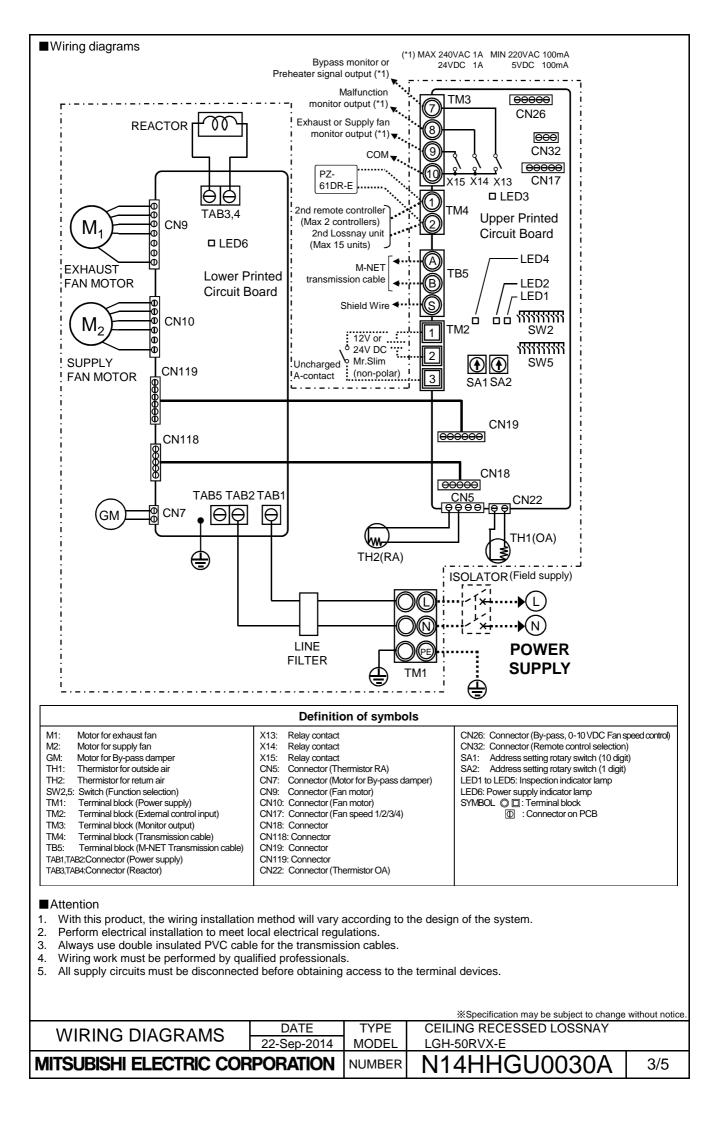
- 1. The running current, the input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. The noise is measured at 1.5m under the center of the unit in an anechoic chamber.
- 2. Temperature exchange efficiency (%) is based on winter condition.
- 3. Heat recovery ventilation 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.
- 4. Mitsubishi Electric measures figures in the chart according to Japan Industrial Standard (JIS B 8628), therefore the characteristic curves are measured by chamber method.
- 5. The noise level at 1.5m away from outlets in the 45° direction is about 18dB greater than the indicated value at fan speed4.
- 6. 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)).

			Specification may be subject to change	without notice.
SPECIFICATIONS	DATE	TYPE	CEILING RECESSED LOSSNAY	
SPECIFICATIONS	22-Sep-2014	MODEL	LGH-50RVX-E	
MITSUBISHI ELECTRIC COF	RPORATION	NUMBER	N14HHGU0030A	1/5



MITSUBISHI ELECTRIC COR	PORATION	NUMBER	N14HHGU0030A
	22-Sep-2014	MODEL	LGH-50RVX-E

2/5



■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, 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 places.
- 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 pesticide, 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.

- 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 in windy and foggy areas. 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.
- Usage of M-NET. When solely using Lossnay units, power supply unit is required to connect to centralised controller. 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 decrease performance.
- 3. Leave sufficient space for maintenance purposes.
- 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 duct condensation.

1 The two outdoor ducts (OA and EA) 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 Lossnay unit is installed will be high during the summer air conditioning season, it is recommended that the indoor ductwork should be covered with insulation material.

③ Outdoor air may come into the unit when not in operation the pressure difference between indoor and outdoor or the outdoor wind. In this case you should install a damper.

④ 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.

(5) In 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 decreasing by warming indoor duct. In winter, it is possible to cool indoor side duct without heat insulation foam on indoor side duct.

- 7. Prevent entry of rainwater into Lossnay unit
- Install weather louver 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.

8. Install the anchor bolts to ensure the product's weight or earthquake load. Correctly rated wire/chain may also be used.

9. Do not install this product in a place where it is exposed to ultraviolet light. UV may damage covering insulation.

10. 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)

			Specification may be subject to change	without notice
SAFTY NOTES	DATE	TYPE	CEILING RECESSED LOSSNAY	
SAFITINOTES	22-Sep-2014	MODEL	LGH-50RVX-E	
MITSUBISHI ELECTRIC COR	PORATION	NUMBER	N14HHGU0030A	4/5

11. Duct heater

- In the case of installing a duct heater interlocked with Lossnay, be sure to observe the following:
- 1 Select a duct heater in compliance with local and national laws, ordinances, and standards.
- Select a duct heater that has obtained the CE mark.
- 2 Always select a heater that is equipped with a non-self-resetting safety device.

Do not directly supply power from the Lossnay unit to the duct heater. Doing so could cause fire.

- ③ Install a circuit breaker for the duct heater in compliance with all applicable laws, ordinances, and standards.
- ④ Install the duct heater separated from the product by a distance of 2 m or more.
- Failure to do so may result in equipment damage due to the transmission of residual heat from the heater.

(5) When using a heater without a temperature control function, select a heater with a capacity that is matched to the air volume.

- (6) Do not use the heater outside the set air volume.
 - If the heater's capacity is too larger, this may result in the heater frequently turning ON/OFF.
 - If the heater's capacity is too small, this may result an inability to heat.

Maintenance and lifetime

Remove all dust and dirt on air filters and Lossnay cores at regular intervals to prevent a deterioration in the Lossnay function.

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.

Lossnay cores	: Around 10 years with maintenance at stated periods.
Air Filters	: Around 5 years with maintenance at stated periods
High efficiency filters	: 3000 hours
Motor	: 30000 hours

	22-Sep-2014	MODEL	LGH-50RVX-E	
SAFTY NOTES	DATE			
		TYPE	*Specification may be subject to change	without notice