MODEL		LGH-50RVX3-E					SIGN	
Heat exchange syste	m	Energy reco	very ventilati	ng system				
Heat exchanger (Loss	nay core)	Special treat	ted paper pla	te heat exch	anger			
Cladding		Galvanized	steel sheet					
Motor		EC motor						
Filter		Non-woven	fabrics filter (	(ISO 16890 C	oarse 60%	»)		
Surrounding air cond	ition	0°C to 40 °C, 80%RH or less						
Suction air condition			40°C, 80%RF					
Supply fan operation	under	-10°C to -15°C : Intermittent operation 60 min ON, 10 min OFF						
low outdoor temperat	ure	-15°C or less : Sensing operation 55 min OFF, 5 min ON						
Weight		33kg						
Electrical power supp	ly	220-240V/50Hz, 220V/60Hz						
Fan speed		4	3	2	1		Te	est condition
Default Airflow setting		100%	75%	50%	25%			
Input power	[W]	185	81	34	15			
Airflow	[m³/h]	500	375	250	125	_ISO 164	94-1: 2022	
	[L/s]	139	104	69	35			
Specific fan power	[W/(L/s)] ire [Pa]	1.33	0.78	0.49	0.43			
External static pressu	150	85	38	10				
Temp. exchange	Heating	70.5	71.5	73.5	75.0			
efficiency [%]	Cooling	63.5	67.0	71.0	73.0			
Enthalpy exchange	Heating	68.5	69.5	72.0	73.0			
efficiency [%]	Cooling	53.5	58.0	63.0	68.0			<u> </u>
Noise	[dB]	35.0	27.0	21.0	17.0		ted sound pre	essure level
Exhaust Air Transfer Ratio [%]							2022 / FS3	
External leakage [%]						_EN1314	1-7: 2021 / re	ference flow rate
Specific energy consumption class		A A						
Insulation resistance		10MΩ or more						
Dielectric strength		AC 1000V 1 minute						
Maximum current [A] 1.86								
■Characteristic ci	urve							f fan curve means e area with ISO16494-1:2022.



## Attention

- 1. The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.
- Noise (A-weighted sound pressure level) is measured 1.5m off from the center of the unit in an anechoic chamber.
- 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.
- 3. Do not use the booster fan to exceed airflow rate/pressure shown in Q-H diagram of the unit.
- 4. It is prohibited to use the unit where salt, sulphur or hot spring steam damage is expected.
- 5. Do not use with acid, alkalis, organic solvent, oil mist, paint, or harmful gas as pesticide, corrosive gas, etc.
- 6. In cold area or strong wind area, outdoor air may enter the unit because of the pressure difference or external wind even when the unit stops. It is recommended to install an electrically damper to block outdoor air in such cases.
- 7. Avoid to install air inlets and outlets where insects are likely to gather like a place near interior or exterior lights. In that case, select hoods or louvers which have repellent net.

Specifications may be subject to change without notice					
SPECIFICATIONS	DATE	TYPE	CEILING RECESSED LOSSNAY		
SFECIFICATIONS	24-Oct-23	MODEL	LGH-50RVX3-E		
MITSUBISHI ELECTRIC COF	PORATION	NUMBER	N22HHGU0004A	1/4	



MITSUBISHI ELECTRIC COR	PORATION	NUMBER	N22HHGU0004A	2/4
OUTLINE DIVAVINGS	24-Oct-23	MODEL	LGH-50RVX3-E	
OUTLINE DRAWINGS	DATE	TYPE	CEILING RECESSED LOSSNAY	
			Specifications may be subject to cha	ange without notice



## ■Caution for electrical work

- 1. Make sure to ground and install an all-pole electrical leakage isolator securely.
- Select proper circuit breaker according to the electrical current on the 1st page. Always use a current leakage breaker that is compatible with higher harmonics as this unit is equipped with an inverter. The use of an inadequate breaker can cause the incorrect operation of inverter.
- 3. Perform electrical installation to meet appropriate regulations and standards.
- 4. Always use double insulated cable for the transmission cables.
- 5. Wiring work must be performed by qualified professionals.
- 6. All supply circuits must be disconnected before obtaining access to the terminal devices.
- 7. When only Lossnay units are used in M-NET, power supply unit is required to connect to centralized controller. Number of power supply units or the transmission boosters should correspond with the connected Lossnay units.
- In the case of installing a duct heater interlocked with Lossnay, be sure to observe the following:
  ①Choose a OA pre-heater which can control the heater outlet air temperature even both the air flow is
  - maximum and minimum. Otherwise it could fall the supply fan into intermittent operation. (2) Select a duct heater in compliance with local and national laws, ordinances, and standards.
  - Select a duct heater that is tested by a certification body.
  - ③ Always select a heater that is equipped with a non-self-resetting safety device.
  - (4) Do not directly supply power from the Lossnay unit to the duct heater. Doing so could cause fire.
  - (5) Install a circuit breaker for the duct heater in compliance with all applicable laws, ordinances, and standards.
  - ⑥ Install the duct heater separated from the product by a distance of 2 m or more.
  - ⑦ Ensure that the duct heater and Lossnay are wired and that the Lossnay function settings have been configured, and then always check operation by trial operation.
- 9. With this product, the wiring installation method will vary according to the design of the system. Refer to the installation manual for more detail.

			Specifications may be subject to char	nge without notice
WIRING DIAGRAMS	DATE	TYPE	CEILING RECESSED LOSSNAY	
	24-Oct-23	MODEL	LGH-50RVX3-E	
MITSUBISHI ELECTRIC COF	PORATION	NUMBER	N22HHGU0004A	3/4

■Maintenance and lifetime

Remove all dust and dirt on air filters and Lossnay cores at regular intervals to prevent from 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 Air Filters	: Around 10 years with maintenance at stated periods. : Around 5 years with maintenance at stated periods
High efficiency filters	: 3.000 hours
Motor	: 30.000 hours
	,
Circuit board	: 25,000 hours
Thermistor	: Around 5 years

## Other notes

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.

Measurements by pitot tube on site 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)).

			Specifications may be subject to ch	ange without notice.
SAFTY NOTES	DATE	TYPE	CEILING RECESSED LOSSNAY	
SALLINOILS	24-Oct-23	MODEL	LGH-50RVX3-E	
MITSUBISHI ELECTRIC COR	PORATION	NUMBER	N22HHGU0004A	4/4