

LGH-RVX3-E

Commercial Lossnay



Compatible with Mitsubishi Electric
plug-and-play CO₂ sensor
(powered by the Lossnay unit)

Notes: Running current, power consumption, recovery efficiency, and sound levels are based on the above default airflow rates at 25%, 50%, 75%, and 100%. Specific duty point data is available upon request. Supply and exhaust fan speeds can be individually commissioned between 25% and 100% in 5% increments. Sound Pressure Level measured at 1.5m under the centre of the bottom panel. Air flow rates, external static pressure and specific fan powers tested to BS EN13053: 2019. Energy recovery efficiencies tested to BS EN308: 2022.

*1: EN 779 G4 equivalent according to 'HEPA Filter Class Conversion between EN 779 and EN ISO 16890-1'.

The new Lossnay **LGH-RVX3-E** Mechanical Ventilation Heat Recovery (MVHR) systems are designed to supply clean, fresh air into any commercial building, whilst simultaneously extracting stale air, ensuring good indoor air quality for occupant wellbeing. These units are also able to recover valuable heat energy from inside the building, maximising energy efficiency and reducing running costs.

Key Features & Benefits

- Lossnay paper core enables total heat exchange (sensible and latent) to achieve higher levels of heat recovery, resulting in both cost and energy savings
- Flexible supply and exhaust fan commissioning in 5% increments, offering low running costs and easier compliance with Part L
- Optional Mitsubishi Electric energy saving CO₂ sensor allows automatic incremental fan control for a healthy indoor environment
- Full airflow in bypass mode, promoting good indoor air quality during free cooling
- Dual-Barrier coating on the fan prevents dust and grease accumulation, ensuring long-term efficient operation
- Lightweight structure ideal for easy ceiling installation
- Vertical installation available for flexibility of application
- Control compatibility with Mr Slim and City Multi air conditioning systems for a complete and highly effective system operation

MODEL	LGH-19RVX3-E	LGH-25RVX3-E	LGH-35RVX3-E	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX3-E	LGH-200RVX3-E
25% (Default speed 1)	Air Volume m ³ /h	38	63	88	125	163	200	250	400
	External Static Pressure Pa	10	17	24	35	45	56	69	111
	Temperature Exchange Efficiency	8	8	10	10	10	11	12	11
	Heating %	81.5	88.0	82.0	75.0	82.0	80.0	83.5	80.0
	Cooling %	78.0	85.0	79.0	73.0	80.0	78.0	82.5	78.0
	Enthalpy Exchange Efficiency	80.5	84.0	80.0	73.0	84.0	73.5	75.5	73.5
	Heating %	68.0	73.0	69.5	65.0	69.0	68.0	71.5	68.0
	Cooling %	65.0	70.0	66.5	61.0	65.0	64.0	67.0	64.0
	Specific Fan Power W/(l/s)	0.96	0.83	0.62	0.43	0.44	0.41	0.39	0.41
	Input Power W	10	11	15	15	20	23	27	45
50% (Default speed 2)	Sound Pressure Level dB(A)	17.0	17.0	17.0	17.0	17.5	18.0	18.5	18.0
	Air Volume m ³ /h	75	125	175	250	325	400	500	800
	External Static Pressure Pa	21	35	49	69	90	111	139	222
	Temperature Exchange Efficiency	30	30	30	38	38	43	48	43
	Heating %	78.0	81.0	79.0	73.5	78.5	78.0	79.5	78.0
	Cooling %	73.5	79.0	74.0	71.0	74.5	75.5	77.0	75.5
	Enthalpy Exchange Efficiency	76.5	75.5	77.5	72.0	76.5	70.5	68.5	70.5
	Heating %	61.0	65.0	63.5	60.0	62.5	64.5	62.5	64.5
	Cooling %	57.0	60.0	58.5	55.0	56.5	58.0	56.0	58.0
	Specific Fan Power W/(l/s)	0.72	0.60	0.49	0.34	0.36	0.34	0.32	0.34
75% (Default speed 3)	Input Power W	15	21	29	34	51	64	83	128
	Sound Pressure Level dB(A)	18.0	19.5	19.0	21.0	24.0	25.0	27.0	26.0
	Air Volume m ³ /h	113	188	263	375	488	600	750	1200
	External Static Pressure Pa	31	52	73	104	135	167	208	333
	Temperature Exchange Efficiency	68	68	90	85	85	96	107	96
	Heating %	75.5	78.5	77.0	71.5	75.0	76.5	77.0	76.5
	Cooling %	70.5	76.5	71.0	67.0	70.0	72.0	72.0	70.0
	Enthalpy Exchange Efficiency	73.5	72.0	74.5	69.5	72.0	65.0	63.0	64.0
	Heating %	57.0	60.5	59.5	55.0	55.0	56.0	59.0	56.0
	Cooling %	57.0	60.5	59.5	55.0	55.0	56.0	59.0	56.0
100% (Default speed 4)	Specific Fan Power W/(l/s)	0.96	0.81	0.84	0.78	0.81	0.96	1.01	0.97
	Input Power W	30	42	61	81	120	160	210	324
	Sound Pressure Level dB(A)	22.0	25.0	24.5	27.0	31.5	33.5	35.0	35.0
	Air Volume m ³ /h	150	250	350	500	650	800	1000	1600
	External Static Pressure Pa	42	69	97	139	181	222	278	444
	Temperature Exchange Efficiency	120	120	160	170	150	170	190	170
	Heating %	73.5	75.5	75.0	70.5	72.5	75.0	75.5	75.0
	Cooling %	65.5	70.5	66.5	63.5	65.0	65.0	65.0	65.0
	Enthalpy Exchange Efficiency	70.5	69.0	72.0	66.5	69.5	62.0	60.5	60.5
	Heating %	52.5	56.0	55.0	51.5	50.5	52.0	53.5	52.0
DUCT SIZE WEIGHT	Cooling %	52.5	56.0	55.0	51.5	50.5	52.0	53.5	52.0
	Specific Fan Power W/(l/s)	1.32	1.08	1.23	1.33	1.36	1.54	1.58	1.55
	Input Power W	55	75	120	185	245	343	438	687
	Sound Pressure Level dB(A)	27.0	30.5	30.5	35.0	37.5	39.0	40.0	41.0
	mm	100	150	150	200	200	250	250	315
	kg	20	22	30	33	41	47	53	96
	Width x Depth x Height mm	760 x 610 x 289	780 x 735 x 289	888 x 874 x 331	888 x 1016 x 331	908 x 954 x 404	1144 x 1004 x 404	1144 x 1231 x 404	1144 x 1231 x 808
	DIMENSIONS	Width x Depth x Height mm	760 x 610 x 289	780 x 735 x 289	888 x 874 x 331	908 x 954 x 404	1144 x 1004 x 404	1144 x 1231 x 404	1144 x 1231 x 808
	ELECTRICAL POWER SUPPLY	Width x Depth x Height mm	760 x 610 x 289	780 x 735 x 289	888 x 874 x 331	908 x 954 x 404	1144 x 1004 x 404	1144 x 1231 x 404	1144 x 1231 x 808
	MAXIMUM CURRENT	A	0.57	0.88	1.37	1.86	2.37	3.77	4.74
HEAT EXCHANGER STANDARD FILTER	FUE RATING (BS68) - HRC (A)	A	6	6	6	6	6	6	10
	HEAT EXCHANGER	A	6	6	6	6	6	6	10
	STANDARD FILTER	A	6	6	6	6	6	6	10

Accessories

Remote Controllers

PZ-62DR-EB
Lossnay remote controller for LGH-RVX3-E

Filters

PZ-15RF3-E
Standard replacement filter (Coarse 60%) for LGH-15RVX3-E

PZ-25RF3-E
Standard replacement filter (Coarse 60%) for LGH-25RVX3-E

PZ-35RF3-E
Standard replacement filter (Coarse 60%) for LGH-35RVX3-E

PZ-50RF3-E
Standard replacement filter (Coarse 60%) for LGH-50RVX3-E

PZ-65RF3-E
Standard replacement filter (Coarse 60%) for LGH-65RVX3-E

PZ-80RF3-E
Standard replacement filter (Coarse 60%) for LGH-80RVX3-E / LGH-100RVX3-E (2 sets required)

PZ-100RF3-E
Standard replacement filter (Coarse 60%) for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)

PZ-15RFP3-E
ePM₁ 75% grade filter for LGH-15RVX3-E

PZ-25RFP3-E
ePM₁ 75% grade filter for LGH-25RVX3-E

PZ-35RFP3-E
ePM₁ 75% grade filter for LGH-35RVX3-E

PZ-50RFP3-E
ePM₁ 75% grade filter for LGH-50RVX3-E

PZ-65RFP3-E
ePM₁ 75% grade filter for LGH-65RVX3-E

PZ-80RFP3-E
ePM₁ 75% grade filter for LGH-80RVX3-E / LGH-100RVX3-E (2 sets required)

PZ-100RFP3-E
ePM₁ 75% grade filter for LGH-100RVX3-E / LGH-200RVX3-E (2 sets required)

PZ-70CSW-E
Wall mounted plug and play CO₂ sensor with traffic light signals for LGH-RVX3-E

PZ-70CSD-E
Duct mounted plug and play CO₂ sensor for LGH-RVX3-E

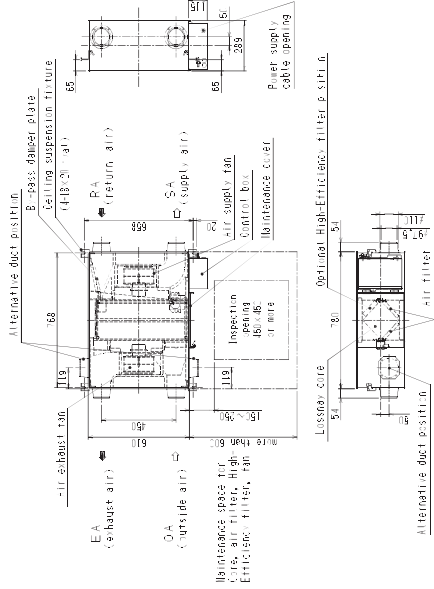
PZ-1VS-E
Vertical mounting bracket for LGH-15-50RVX3-E

PZ-2VS-E
Vertical mounting bracket for LGH-65-100RVX3-E

Weather Proof Housings
Weather proof housings are also available

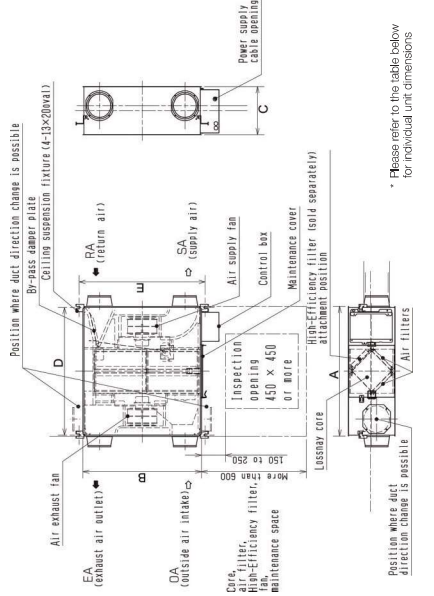
Product Dimensions

LGH-15RVX3-E



Product Dimensions

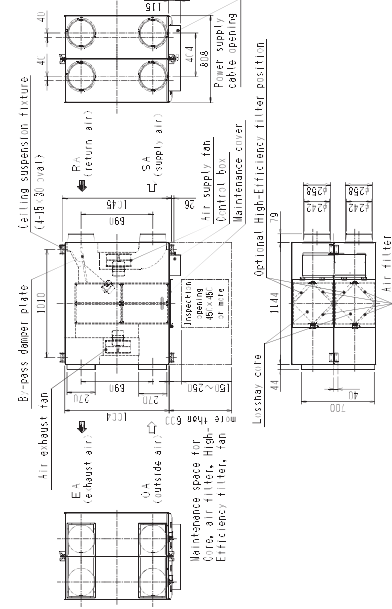
LGH-25-100RVX3-E



MODEL REFERENCE	DIMENSIONS			CEILING SUSPENSION FIXTURE PITCH			NOMINAL DUCT DIAMETER
	A	B	C	D	E		
LGH-25RVX3-E	780	735	289	768	782	150	
LGH-35RVX3-E	888	874	331	875	921	150	
LGH-50RVX3-E	888	1016	331	875	1063	200	
LGH-65RVX3-E	908	954	404	895	1001	200	
LGH-80RVX3-E	1144	1004	404	1131	1051	250	
LGH-100RVX3-E	1144	1231	404	1131	1278	250	

Product Dimensions

LGH-160RVX3-E



Product Dimensions

LGH-200RVX3-E

