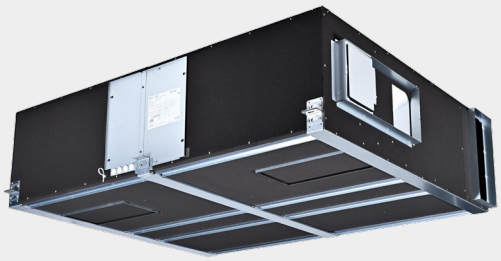
Ventilation | Product Information

LGH-RVXT3-E

Commercial Series

The Commercial Lossnay (LGH) Mechanical Ventilation Heat Recovery (MVHR) systems are designed to supply clean, fresh air into commercial buildings, whilst simultaneously extracting stale air.

The **RVXT3** units offer a significantly reduced height whilst maintaining a large airflow, allowing easy installation in ceiling voids.



Key Features & Benefits:

- Mitsubishi Electric pioneered heat exchanger enables maximised latent heat exchange, resulting in cost and carbon savings
- Low unit height (500mm) and lightweight structure, ideal for ceiling installation
- Four commissionable fan speeds, settable between 25-100%, with independent supply and return fan control offering low running costs and easier compliance to Part L
- Optional Mitsubishi Electric energy saving CO_2 sensors allow automatic incremental fan control for a healthy indoor environment; sensors powered by Lossnay unit
- No condensate drain required allowing for easy design and installation
- Dual-barrier coated fans, prevents dust and grease accumulation, ensuring long-term efficient fan operation
- Constant pressure control available with 0-10V pressure transducer (field supplied), for variable airflow requirements across multiple zones
- Compatible with Mr Slim and City Multi air conditioning systems for a complete and highly effective system operation
- Duct handing selectable via dipswitch, for easy and flexible installation
- Optional high efficiency filters available

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MODEL			LGH-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E
25% (Default speed 1)	Air Volume	m^3/h	400	500	625
		l/s	111	139	174
	External Static Pressure	Pa	12	12	12
	Temperature Exchange Efficiency	Heating %	88.0	86.0	84.0
		Cooling %	83.0	82.0	81.0
	Enthalpy Exchange Efficiency	Heating %	85.5	84.5	81.5
		Cooling %	78.0	75.0	73.0
	Specific Fan Power	W/(l/s)	0.41	0.40	0.50
	Input Power	W	46	56	86
	Sound Pressure Level	dB(A)	19.5	21.0	23.0
50% (Default speed 2)	Air Volume	m^3/h	800	1000	1250
		l/s	222	278	347
	External Static Pressure	Pa	48	48	48
	Temperature Exchange Efficiency	Heating %	85.5	83.0	80.0
		Cooling %	79.0	78.0	76.5
	Enthalpy Exchange Efficiency	Heating %	83.0	81.5	78.0
		Cooling %	73.0	67.5	66.0
	Specific Fan Power	W/(l/s)	0.65	0.69	0.82
	Input Power	W	144	192	284
	Sound Pressure Level	dB(A)	26.0	28.0	31.5
75% (Default speed 3)	Air Volume	m^3/h	1200	1500	1875
		l/s	333	417	521
	External Static Pressure	Pa	107	107	107
	Temperature Exchange Efficiency	Heating %	83.0	81.0	78.0
		Cooling %	75.0	73.0	70.5
	Enthalpy Exchange Efficiency	Heating %	81.0	79.5	76.0
		Cooling %	65.5	61.0	59.0
	Specific Fan Power	W/(l/s)	1.10	1.20	1.34
	Input Power	W	368	498	696
	Sound Pressure Level	dB(A)	33.0	35.0	38.0
100% (Default speed 4)	Air Volume	m^3/h	1600	2000	2500
		l/s	444	556	694
	External Static Pressure	Pa	190	190	190
	Temperature Exchange Efficiency	Heating %	82.0	80.0	77.0
		Cooling %	70.0	67.5	65.0
	Enthalpy Exchange Efficiency	Heating %	80.0	78.5	75.0
		Cooling %	61.5	56.5	54.0
	Specific Fan Power	W/(l/s)	1.59	1.88	2.09
	Input Power	W	708	1044	1448
	Sound Pressure Level	dB(A)	38.0	40.0	44.0
DUCT SIZE		mm	Outlets (SA/EA): 250 x 650 / Inlets (RA/OA): 465 x 220		
WEIGHT		kg	172	172	172
DIMENSIONS	Width x Depth x Height	mm	2100 x 1600 x 500		
ELECTRICAL POWER SUPPLY			3-phase, 380-415V, 50Hz*2		
MAXIMUM CURRENT		A	3.0	3.9	5.0
HEAT EXCHANGER			Paper with Specially Treated Cellulose Membrane		
STANDARD FILTER			ISO 16890 Coarse 60%*1		

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 'REHVA Filter Class Conversion between EN 779 and EN ISO 16890-1'

*2: 3 phase 4 wire power must be connected. The unit only uses loads L2 and L3, meaning L1 does not draw load

ACCESSORIES		LGH-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E
Remote Controller		PZ-62DR-EB		
Filters	Standard Replacement Filter (Coarse 60%)	PZ-250TRF-E		
	ISO 16890 ePM1 75%, ePM2.5 80%, ePM10 95%	PZ-250TPF-E		
CO_2 Sensors		PZ-70CSW-E (Wall mounted) / PZ-70CSD-E (Duct mounted)		
External signal relay		PZ-4GS-E		

LGH-RVXT3-E
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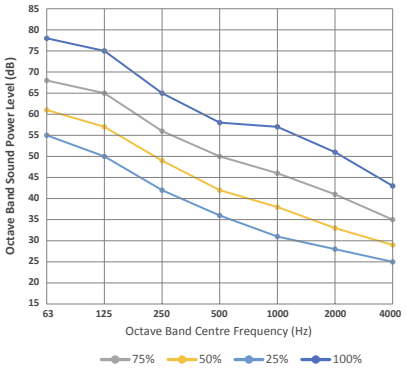
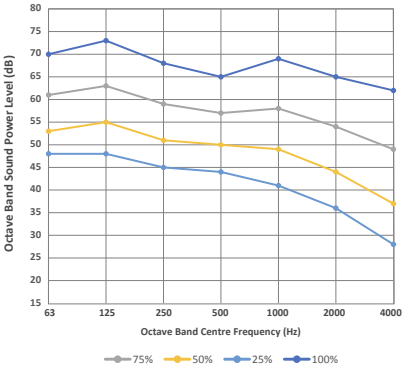
LGH-160RVXT3-E SOUND POWER OCTAVE LEVELS

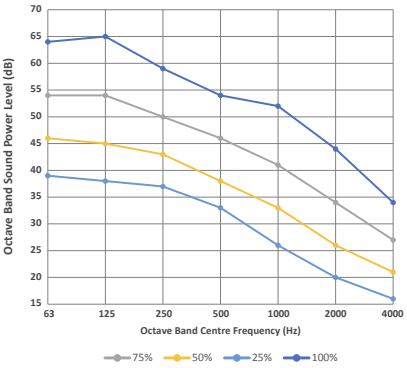
Case Radiated Breakout



In-Duct Outlet (Supply Air & Exhaust Air)

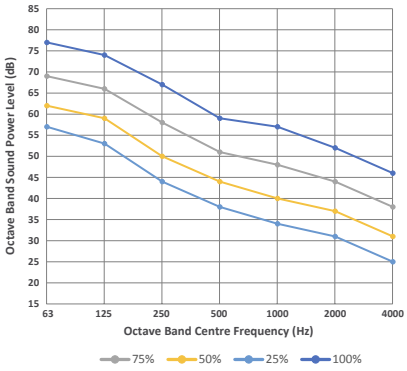


In-Duct Outlet (Return Air & Outside Air)

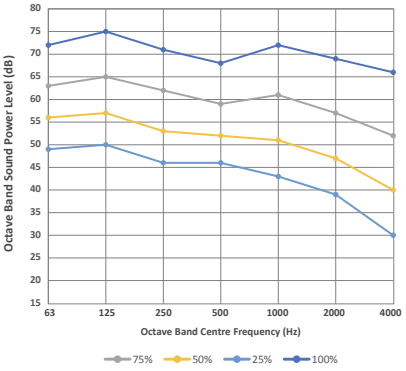


LGH-200RVXT3-E SOUND POWER OCTAVE LEVELS

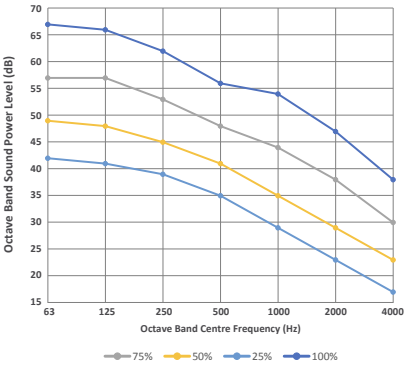
Case Radiated Breakout



In-Duct Outlet (Supply Air & Exhaust Air)

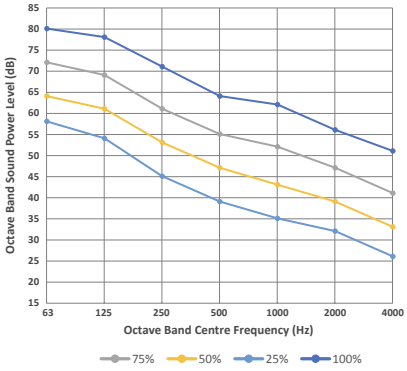


In-Duct Outlet (Return Air & Outside Air)

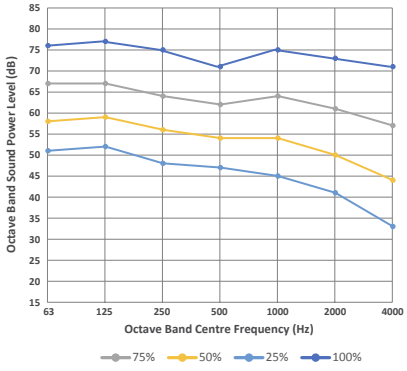


LGH-250RVXT3-E SOUND POWER OCTAVE LEVELS

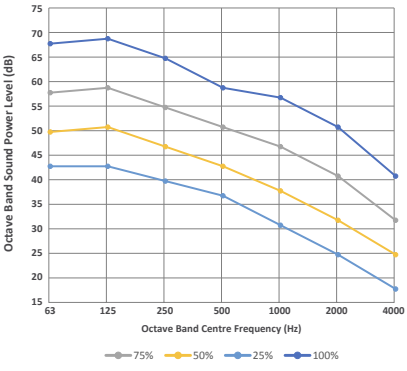
Case Radiated Breakout



In-Duct Outlet (Supply Air & Exhaust Air)



In-Duct Outlet (Return Air & Outside Air)



Notes:
Sound power octave band test based on ISO 3744:2010 at standard operating conditions. For duty point specific data contact Mitsubishi Electric.
Measurements below 15dB are shown as <15 in the table and omitted from the graph.

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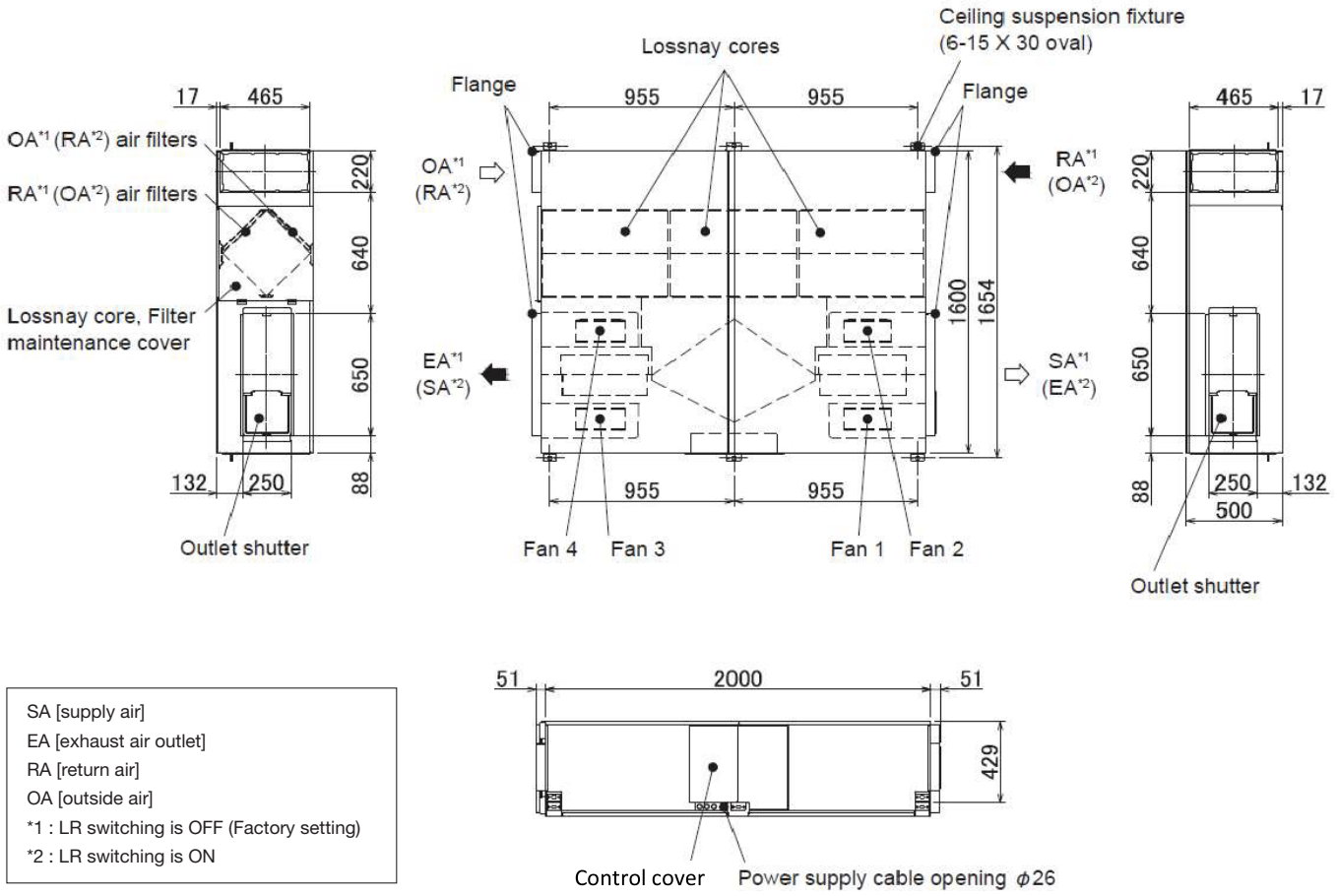
LGH-160/200/250RVXT3-E DIMENSIONS



SA [supply air]
EA [exhaust air outlet]
RA [return air]
OA [outside air]
*1 : LR switching is OFF (Factory setting)
*2 : LR switching is ON

MITSUBISHI ELECTRIC
Changes for the Better

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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IP CC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of September 2024

Green Gateway greengateway.mitsubishielectric.co.uk