

# Lossnay LGH-RVXT3-E

## FRESH AIR ENERGY RECOVERY SYSTEM



### ENERGY RECOVERY SYSTEM

The Lossnay RVXT3 Mechanical Ventilation Energy Recovery System creates healthier, more comfortable commercial spaces by supplying fresh air and extracting stale air in one energy-efficient solution.

With a reduced unit height and powerful airflow in a slim profile, the RVXT3 is easy to install in ceiling voids, making it ideal for modern buildings where space is limited.



#### **LGH-160RVXT3-E**

111-444 L/s of air

#### **LGH-200RVXT3-E**

139-556 L/s of air

#### **LGH-250RVXT3-E**

174-694 L/s of air

### Key Features

#### **Slim and Lightweight Design**

With a slim 500mm height profile and reduced weight, the Lossnay RVXT3 Range can be easily installed into tight ceiling voids or confined spaces. This design flexibility reduces installation time and makes it possible to bring advanced ventilation to buildings where space has traditionally been a challenge.

#### **Seamless HVAC Integration**

Full compatibility with Mitsubishi Electric's Mr Slim and City Multi Heat Pump Ranges provides a coordinated HVAC solution that optimises system efficiency, simplifies operational control, and maintains superior comfort levels throughout the building.

#### **Dual Barrier Coating**

The patented and world's first Dual Barrier Coating from Mitsubishi Electric prevents dust and dirt from accumulating on the interior of the Lossnay unit, helping to keep it clean all year-round. Not only can dust and dirt build-up typically create unpleasant odours, but it also significantly impairs heat exchanger efficiency. Dual Barrier Coating ensures peace of mind and optimal performance.

#### **Smart Airflow Management**

A pressure transducer switch (field supplied) can be used to monitor and adjust airflow. This functionality supports efficient multi-zone operation, responds dynamically to varying loads, and maximises both comfort and energy performance.

#### **Simplified Retrofit Design**

Unlike many ventilation systems, the Lossnay RVXT3 Range does not require a condensate drain, removing a common design complication. This innovation reduces installation time and costs, while also making the unit easier to retrofit into existing buildings.

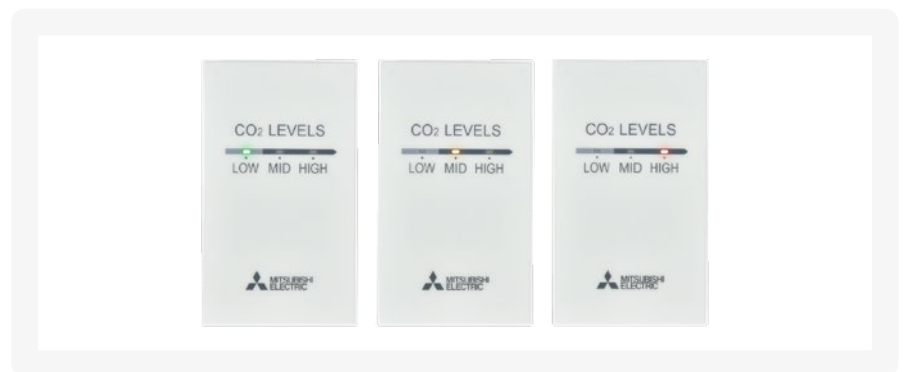
#### **Flexible Installation**

Duct configuration is made simple with dipswitch control, enabling fast and flexible adjustments on-site. This feature ensures a single unit can be adapted to diverse building layouts, minimising planning challenges and simplifying installation.

## Optional Accessories

### Optimised Control with Optional CO<sub>2</sub> Sensor

Through the addition of optional Mitsubishi Electric CO<sub>2</sub> Sensors, CO<sub>2</sub> levels can be detected, and airflow intuitively adjusted to ensure optimum air quality, no matter how many people are within the space. The system will continuously adjust the volume of fresh air changes until optimum CO<sub>2</sub> levels are reached, with the system then reverting back to the original fan speed.



### Optional High-Efficiency Filters Available\*1

For spaces where clean air matters most like hospitals, schools and offices, optional high-efficiency filters provide added protection. By capturing fine airborne particles, they enhance indoor air quality, creating a healthier and more comfortable space for everyone.



### Make Energy Recovery Ventilation Visible – with Optional Lossnay Wi-Fi Control



Elevating air quality and maximising energy efficiencies has never been easier, because now the power is in your hands.

See by how many degrees Lossnay is pre-warming or pre-cooling the incoming fresh air to the building in real time, helping save on operating costs because less additional heating is required to get a room up to temperature.

And in summer, monitor by how many degrees Lossnay reduces the average temperature using Automatic Free Cooling\*2 Mode.

In addition, the App will also proactively remind you when it is time to clean filters to maximise both cost efficient operation and health benefits.

Lossnay Wi-Fi Control truly is the smart evolution in fresh air ventilation.

With the option of an additional CO<sub>2</sub> sensor, when connected with the optional Wi-Fi Control Interface, CO<sub>2</sub> levels can be viewed in real-time making it ideal for schools, medical facilities and offices.

\*1 Please refer to our "Lossnay Filter Range" brochure for more details.

\*2 In comparison to using a dedicated cooling device. The unit will continue to use a small amount of power to bring colder fresh air from outside.

# Specifications

## Lossnay LGH-RVXT3-E

MODEL			LGH-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E
25% (Default Speed 1)	Air Volume	m³/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	m³/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	m³/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	m³/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		
Dimensions	Width x Depth x Height	mm	2100 x 1600 x 500		
Electrical Power Supply			3-phase, 380-415V, 50Hz*1		
Maximum Current		A	2.9	3.9	5.0
Heat Exchanger			Paper with Specially Treated Cellulose Membrane		
Standard Filter			ISO 16890 Coarse 60%*2		

Note: 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.

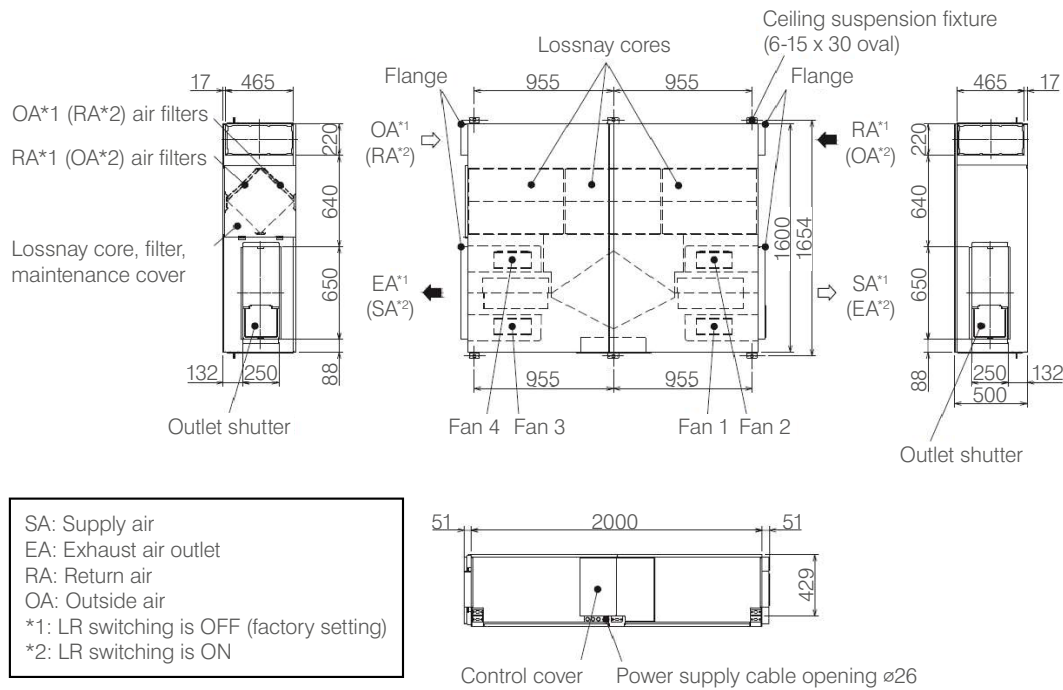
\*1 3 phase 4 wire power must be connected. The unit only uses loads L2 and L3, meaning L1 does not draw load.

\*2 EN 779 G4 equivalent according to 'REHVA Filter Class Conversion between EN 779 and EN ISO 16890-1'.

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 <sub>2</sub> Sensors		PZ-70CSW-E2 (Wall mounted) / PZ-70CSD-E2 (Duct mounted)		
External Signal Relay			PZ-4GS-F	

# Specifications

## Dimensions



Learn More About Lossnay Fresh Air Heat Recovery Ventilation

