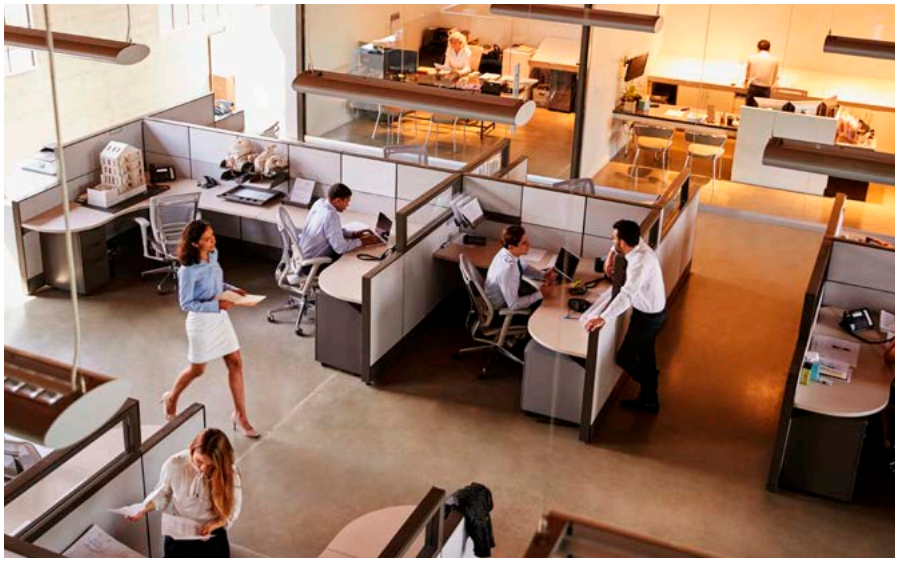
LossnayPro LGH-RVS

FRESH AIR HEAT RECOVERY SYSTEM



LGH-50RVS-E
139 L/s of air

LGH-80RVS-E
222 L/s of air

LGH-100RVS-E
278 L/s of air

The LossnayPro LGH-RVS-E Sensible Heat Recovery Ventilation Range is designed to simultaneously extract stale air from commercial spaces and supply fresh filtered air. With the added benefit of recovering valuable heat energy for maximum efficiency.

Key Features

The Ultimate Heat Recovery Ventilation System – Made for all Areas

The sensible heat recovery addition to the Lossnay range introduces fresh filtered air and with the non-permeable and washable Lossnay Core, it also draws stale air out from areas with high humidity such as bathrooms, kitchens and laundries as well as commercial applications such as gyms, healthcare centres, schools and offices.

The LGH-RVS Series uses the residual heat from the outgoing stale air to pre-condition the incoming fresh air, which allows buildings to maximise efficiencies whilst maintaining healthy levels of fresh air and keeping CO_2 levels low.

Low Noise Operation and Increased Energy Efficiency

Starting from a super quiet 18dB(A)*, the LGH-RVS Series operates with incredibly low noise thanks to a specialised sirocco fan produced by Mitsubishi Electric. This unique fan balances airflow and static pressure to minimise noise levels. The series also incorporates a high-efficiency motor to reduce power consumption.

Optional silencer ducts can reduce noise further when a quiet solution is paramount.

From 18dBA*

Combine Lossnay with Mr Slim Ducted Systems

LGH-RVS can be integrated with a Mitsubishi Electric Ducted Air Conditioning System. The ducted system provides heating and cooling while the Lossnay ventilator brings in fresh air into the building while expelling the stale air at the same time.

The heat recovery ventilators help to reduce the load on the ducted air conditioning system.

*On lowest fan speed, measured at 1.5m from the centre of unit in an anechoic chamber.

Easy Installation and Drain Piping

The light chassis of the LGH-RVS Series can provide an advantage in terms of cost and safety of installation.

The unit features one drain pipe terminal for both supply air (SA) and exhaust air (EA). A condensate trap is not required as the LGH-RVS unit features an internal backflow prevention device and an inclined drain pain, which not only helps with installation, but also reduces the risk of mould and odour.

Optional CO_2 Monitoring

With the option of an additional CO_2 sensor. When connected with the optional Wi-Fi Control Interface, CO_2 levels can be viewed in real-time making it ideal for schools, medical facilities and offices.

It is well known that poor air quality impacts health, wellbeing and concentration levels. In conjunction with the CO_2 sensor, the Lossnay LGH-RVS system intuitively adjusts airflow to ensure optimum air quality, no matter how many people are in the room.

PZ-70CSD-E
(Duct-in Type)

PZ-70CSW-E
(Wall Mounted Type)

CO_2 levels are indicated by LED lights

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

OPTIONAL 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† 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.

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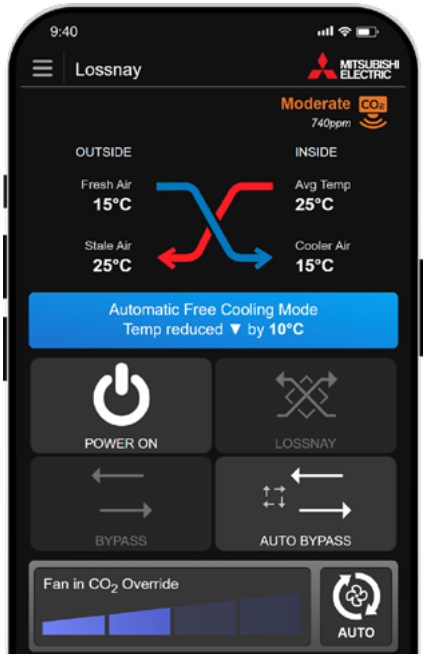


Good CO_2

Moderate CO_2

High CO_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

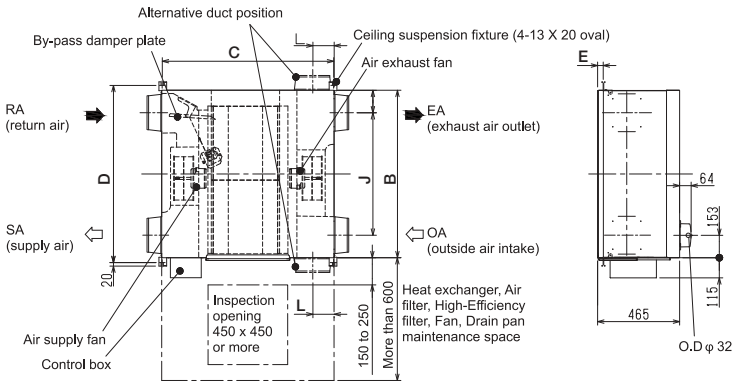
LGH-RVS-E – Commercial Series

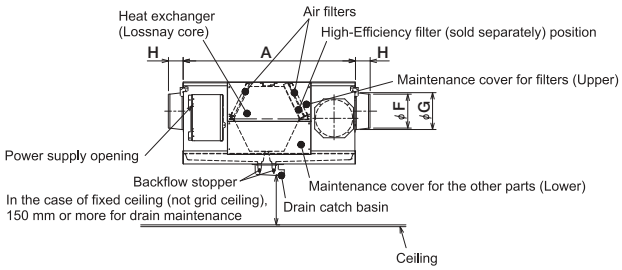
Model			LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E
25%	Air Volume	L/s m^3/hr	35 125	56 200	69 250
	External Static Pressure	Pa	9	11	12
	Temperature Exchange Efficiency	%	93	90	90
	Specific Fan Power	W/(L/s)	0.72	0.58	0.50
	Input Power	W	25	32	35
	Sound Pressure Level	dB(A)	18	18	18
50%	Air Volume	L/s	69	111	139
		m^3/hr	250	400	500
	External Static Pressure	Pa	38	43	48
	Temperature Exchange Efficiency	%	91	86	86
	Specific Fan Power	W/(L/s)	0.86	0.77	0.72
	Input Power	W	60	85	100
	Sound Pressure Level	dB(A)	22	25	24
75%	Air Volume	L/s m^3/hr	104 375	167 600	208 750
	External Static Pressure	Pa	84	96	107
	Temperature Exchange Efficiency	%	89	84	84
	Specific Fan Power	W/(L/s)	1.06	1.05	1.08
	Input Power	W	110	175	225
	Sound Pressure Level	dB(A)	27	30	32
100%	Air Volume	L/s	139	222	278
		m^3/hr	500	800	1000
	External Static Pressure	Pa	150	170	190
	Temperature Exchange Efficiency	%	87	82	82
	Specific Fan Power	W/(L/s)	1.37	1.46	1.60
	Input Power	W	190	325	445
	Sound Pressure Level	dB(A)	33	36	37
Duct Size		mm	200	250	250
Weight	(With Full Condensate Drain)	kg	55 (67)	63 (77)	73 (89)
Dimensions	Width x Depth x Height	mm	974 x 946 x 465	1185 x 997 x 465	1185 x 1224 x 465
Electrical Power Supply			220-240V, 50Hz		
Maximum Running Current		A	2.2	3.7	4.2
Fuse Rating (BS88) - HRC (A)		A	6		
Heat Exchanger			Plastic Counter Flow		
Condensate Connection		mm	32		

Note: Airflow rate, static pressure, power input, running current, and heat exchange efficiency tested to ISO 16494 (winter condition), 230v 50Hz.
Noise Rating: A-Weighted Sound Pressure Level measured at 1.5m under the centre of the unit in an anechoic chamber.

Dimensions

LGH-RVS-E – Commercial Series





Dimensions		A	B	C	D	E	F	G	H	I	J
LGH-50RVS-E	mm	974	946	969	1001	32	192	208	83	692	120
LGH-80RVS-E	mm	1185	997	1179	1051	55	242	258	82	683	161
LGH-100RVS-E	mm	1185	1224	1179	1279	55	242	258	82	910	161

Filter Specifications

Model		Standard Filter	Optional Upgrade: Medium Grade	Optional Upgrade: Higher Grade
		G3 (PZ-S**RF-E)	**M6**** (PZ-S**RFM-E)	**F8**** (PZ-S**RFH-E)
LGH-RVS Series				
LGH-50 RVS-E	Contains	2	-	-
	Requires	2	1*	1*
LGH-80 RVS-E	Contains	2	-	-
	Requires	2	1*	1*
LGH-100 RVS-E	Contains	2	-	-
	Requires	2	1*	1*

* Optional filters when installed will replace Standard filters.
** Optional filter upgrades should be installed exclusively in the Supply Air (SA) or Outdoor Air (OA) streams, while standard filters should be maintained in the Return Air (RA) stream.
Please refer to the Installation Manual on Techview for more details.

Please note: When deciding on the best place to position the Lossnay Ventilation System, care needs to be taken to not have incoming air intake near or close to a wood burner flue.

SCAN ME!

Lossnay

Learn More About Lossnay Fresh Air Heat Recovery Ventilation

For more information please visit our website or call our Customer Service Team.
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PUBLISHED MAR 2025

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