Lossnay

SINGLE ROOM WALL MOUNTED

SINGLE ROOM CEILING

WHOLE HOME VERTICAL DUCTED

WHOLE HOME DUCTED







Fresh Air Heat Recovery Home Ventilation Systems

MITSUBISHI ELECTRIC | Quietly Superior

Lossnay Energy Recovery Ventilation

For a Healthier, Drier and Warmer Home

Ventilating your home is vital as it maintains air quality and helps control moisture build-up, to create a healthier and more comfortable environment all year round.

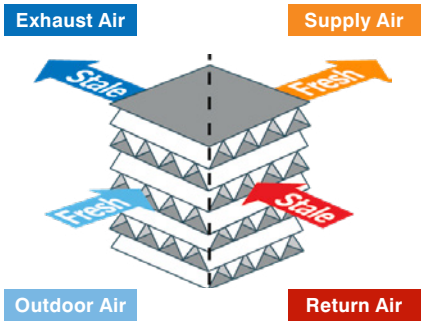
The Mitsubishi Electric Lossnay System is a patented balanced pressure energy recovery ventilation solution that uses fresh air (not attic air) to ventilate your home. The system works by extracting stale air from inside your house and replacing it with allergen-reduced fresh air from outside.

Maximise Energy Efficiency with Heat Recovery

Unlike other systems, our advanced Lossnay Core recovers energy from the extracted stale air, to pre-warm or pre-cool the incoming air. As a result, an existing heating appliance in the room does not have to work as hard to reach desired temperatures, maximising energy efficiency and reducing your energy bill.



How the Lossnay Core Works



Airflow shown in Winter Mode

Exhaust Air

As the stale Return Air is removed, the Lossnay Core 'recovers' the useful heat energy from it. The air is then exhausted outside along with the unwanted pollutants.

Outdoor Air

Fresh Outdoor Air is first filtered, then passed through the Lossnay Core. This allows it to be pre-warmed in winter (or pre-cooled in summer) using the energy recovered from the Return Air.

Supply Air

Supply Air then enters your house as fresh pre-warmed or pre-cooled air.

Return Air

The stale air extracted from your home is Return Air, which can contain high levels of CO_2, odours and other pollutants. This Return Air stream also contains heat energy that Lossnay can recover, which is not the case with positive pressure ventilation systems.

The Lossnay Difference



Retains Heat to Pre-warm Incoming Air

Lossnay's unique Heat Recovery Technology collects up to 93%*1 of the heat energy in outgoing air to pre-warm or pre-cool the incoming fresh air.



Energy Efficient, Save on your Power Bill*2

With Lossnay's Heat Recovery Technology, less additional heating/cooling of incoming air is required to quickly achieve your ideal home temperature – saving you money.

Moisture and Condcondensation Control

Effectively reduces moisture in your home by directly removing stale air that can cause condensation.



Improved Air Quality

Lossnay ensures a well-ventilated home without opening windows, by drawing in fresh outdoor air and not attic air. Indoor air quality is improved as high levels of CO_2, odours, pollen and other pollutants are removed – ideal for allergy and asthma sufferers.



Whisper Quiet Operation

From an ultra quiet 14dB*3, Lossnay is the ideal solution for residential homes and apartments where quiet comfort is key.



Automatic Free Cooling Mode*4

Lossnay's temperature sensors automatically enter Automatic Free Cooling Mode when the outside air is cooler than the desired inside set temperature. At night, cooler fresh air is introduced and stale air is extracted, bypassing the Lossnay Core to pre-cool a home that has overheated during the day.

*1 LGH-50RVS at lowest fan speed. *2 Compared to the use of a 100% fresh air, conventional ventilation system.
*3 VL-220C2GV on lowest fan speed. Measured at 1.5m. *4 Compared to a dedicated cooling device. The unit will continue to use a small amount of power to bring colder, fresh air from outside. Lossnay is designed to provide ventilation and is not intended to replace a dedicated cooling device or independently cool a home to a specified temperature.



The Lossnay Ventilation Range

Single Room Systems

Provides cost effective energy recovery ventilation to one specific area in the home.

Do you have space in your roof?

NO

- Wall Mounted VL-100



- Balanced Pressure System
- ERV Permeable Core
- Easy to clean filters

YES

- Ducted VL-100



- Balanced Pressure System
- ERV Permeable Core
- Easy to clean filters

Whole Home Systems for Homes with or without an Attic

Vertical Lossnay provides heat recovery ventilation that does not require installation in the roof space.

What size is your home?

2 Bedroom 70–100m²

- VL-250



- Balanced Pressure System
- HRV Non-Permeable Core
- Suitable for wet areas
- Easy to clean filters
- Wi-Fi Control

3–4 Bedroom 100–200m²

- VL-350
- VL-500



- Balanced Pressure System
- HRV Non-Permeable Core
- Suitable for wet areas
- Easy to clean filters
- Wi-Fi Control

4–5 Bedroom 200–230m²

- VL-500



- Balanced Pressure System
- HRV Non-Permeable Core
- Suitable for wet areas
- Easy to clean filters
- Wi-Fi Control

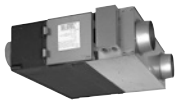
Whole Home Systems for Homes with an Attic

Mitsubishi Electric Whole Home Lossnay Ventilation Systems are available with both energy recovery or heat recovery options to give whole home ventilation suitable for both smaller and larger homes with sufficient attic space.

What size is your home?

2 Bedroom 70–90m²

- VL-220



- Balanced Pressure System
- HRV Non-Permeable Core
- Suitable for wet areas
- Optional Bypass Damper

2 Bedroom 70–90m²

- LGH-15RVX3



- Balanced Pressure System
- ERV Permeable Core
- Optional Wi-Fi Control
- Optional Air Quality CO_2 Sensor

2–4 Bedroom 90–200m²

- LGH-25RVX3
- LGH-35RVX3
- LGH-50RVX3



- Balanced Pressure System
- ERV Permeable Core
- Optional Wi-Fi Control
- Optional Air Quality CO_2 Sensor

What size is your home?

4–5 Bedroom 205–420m²

- LGH-50RVX3
- LGH-65RVX3
- LGH-80RVX3
- LGH-100RVX3



- Balanced Pressure System
- ERV Permeable Core
- Optional Wi-Fi Control
- Optional Air Quality CO_2 Sensor

4–5 Bedroom 205–420m²

- LGH-50RVS
- LGH-80RVS
- LGH-100RVS



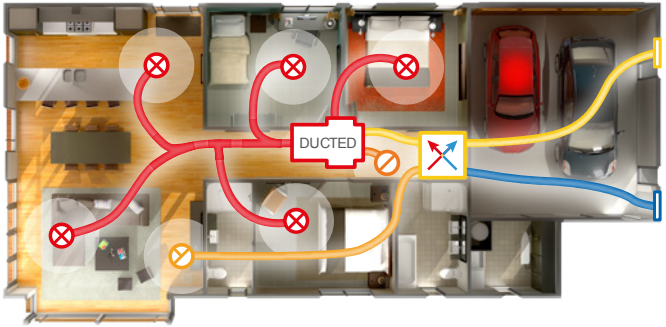
- Balanced Pressure System
- HRV Non-Permeable Core
- Suitable for wet areas
- Optional Wi-Fi Control
- Optional Air Quality CO_2 Sensor



the power of 2

Combine a Mitsubishi Electric Ducted Heat Pump with Lossnay Fresh Air Heat Recovery Ventilation to deliver discreet, year-round comfort and fresher, healthier air.

By recovering heat from outgoing stale air to pre-warm or pre-cool incoming fresh filtered air, Lossnay helps your ducted system work more efficiently – creating a drier, more comfortable home environment.



- Supplies Fresh Air
- Extracts Stale Air
- Returns Air
- Ducted Unit
- Lossnay Unit

Why Choose a Central Ducted Heat Pump System with Ventilation?

- Whole home energy efficient comfort
- Year-round heating, cooling and ventilation
- Discrete and unobtrusive
- Variety of grilles to fit your home aesthetic
- Optional ZoneIQ Control
- Optional Wi-Fi Control Interlock to manage both systems together

	Ducted Heat Pump	Lossnay Ventilation	Ducted Heat Pump & Lossnay Ventilation
Heating and Cooling	✔	–	✔
Fresh Outside Air	–	✔	✔
Filtered Air	✔	✔	✔
Energy Efficient	✔	✔	✔
Heat/Energy Recovery	–	✔	✔

See and Feel the Lossnay Difference with Advanced Wi-Fi Control

The Wi-Fi Control App not only displays the real-time percentage of heat recovered but also shows by how many degrees Lossnay is pre-warming or pre-cooling incoming fresh air at any given time.*

In addition, the App proactively reminds you when it is time to clean your filters, maximising both cost-efficient operation and health benefits.

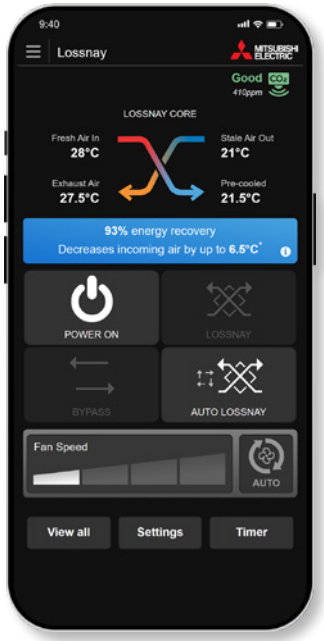
The Lossnay RVS and RVX3 Models have the option of an additional CO_2 sensor. When connected with the optional Wi-Fi Control Adapter, CO_2 levels can be viewed in real-time making it ideal for schools, medical facilities and offices.

Lossnay Wi-Fi Control comes standard with the Vertical Lossnay Series, and as an optional extra for the **LGH-Ranges**.

* Based on temperatures sensors located at the core of the unit.



Pre-warming in winter



Pre-cooling in summer

SCAN ME!

Try the demo today



ADVANCED Wi-Fi CONTROL

All imagery is representative only, values may differ in real world conditions.

Please Note:

A ventilation system should not be purchased without first obtaining a quote by a qualified Mitsubishi Electric Installer.

Selection Guide is based on the following criteria:

- m^2 Room/Area (at 0.5 Air Changes) with a ceiling height of 2.4m.
- 10 year-old partially insulated building, single storey† with heat pump as the main heat source.
- It is recommended to size your system based on Low-Medium Speed operation.

† While the Selection Guide is based on single storey homes, Lossnay Ventilation Systems are not limited to this criteria.

When deciding on the best place to position the Lossnay Ventilation system, care needs to be taken not to have incoming air intake near a wood burner flue.

Want to Know More?

View individual Lossnay Product Brochures for more information.

Lossnay System Selection Guide

Model	Type	HRV or ERV	Extract Damp Air	Fan Speed			
				LOW	MED	MED/HIGH	HIGH
				m^2	m^2	m^2	m^2
VL-100EU5-E	Wall Mounted	ERV	No	50			88
VL-100ZSKRT-E	Ceiling Mounted	ERV	No	35			65
VL220CZGV-E	Ducted	HRV	Yes*	54	100	137	191
VL-250CZPVU2(R/L)-EG	Vertical Ducted	HRV	Yes*	56	95	137	195
VL-350CZPVU2(R/L)-EG	Vertical Ducted	HRV	Yes*	75	116	166	233
VL-500CZPVU2(R/L)-EG	Vertical Ducted	HRV	Yes*	100	175	254	375
LGH-15RVX3-E	Ducted	ERV	No	31	62	94	125
LGH-25RVX3-E	Ducted	ERV	No	52	104	156	208
LGH-35RVX3-E	Ducted	ERV	No	73	145	219	291
LGH-50RVX3-E	Ducted	ERV	No	104	208	312	416
LGH-65RVX3-E	Ducted	ERV	No	135	270	406	541
LGH-80RVX3-E	Ducted	ERV	No	166	333	500	666
LGH-100RVX3-E	Ducted	ERV	No	208	416	625	833
LGH-50RVS-E	Ducted	HRV	Yes*	104	208	312	416
LGH-80RVS-E	Ducted	HRV	Yes*	166	333	500	666
LGH-100RVS-E	Ducted	HRV	Yes*	208	416	625	833

* If a Lossnay system with an HRV Core is used, it can be used to extract from a bathroom or any other wet area room.
Note: A condensate drain is a mandatory installation requirement for VL Vertical Lossnay, LGH-RVS and VL-220 models.

For more information on Mitsubishi Electric Products please visit our website or call our Customer Service Team.
www.mitsubishi-electric.co.nz | 0800 784 382

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