

For a healthier, drier home.



NEW Home Ventilation System

Made in Japan, designed for New Zealand conditions.




Lossnay. World Leaders in Fresh Air Energy Recovery.

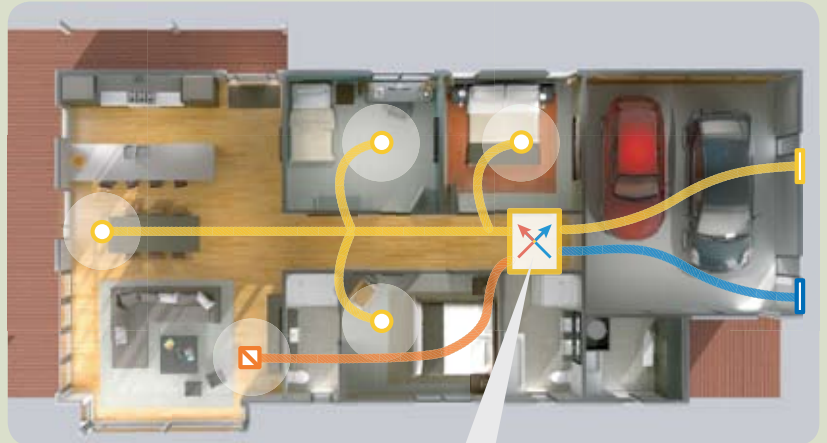


Lossnay for a healthier, drier home.

World Leader in ventilation systems, Mitsubishi Electric's patented Fresh Air Energy Recovery System is now available in New Zealand. Because Lossnay uses fresh air (not attic air) to ventilate your home, you get the best of both worlds - fresh air into the home whilst reducing dampness - and without the excessive added heating costs that most alternative systems cannot prevent. Lossnay ensures the air in your home stays fresher, cleaner and drier. By recovering indoor heat you will also increase energy efficiency.

- ✓ *Draws in fresh outdoor air*
- ✓ *Circulates the air continuously*
- ✓ *Retains heat*
- ✓ *Assists moisture control*
- ✓ *Helps keep heating bills down*

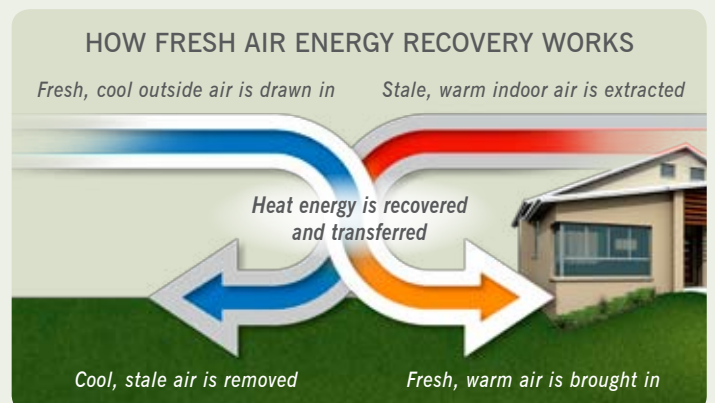
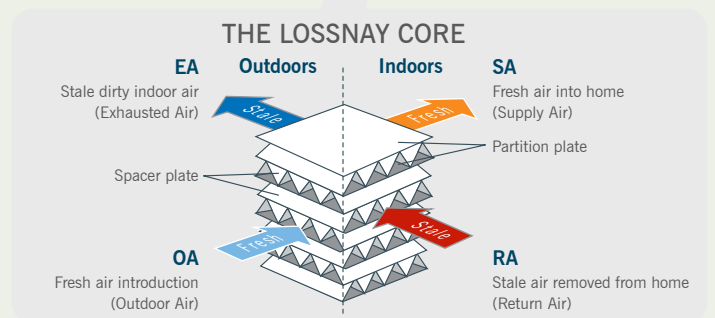
- 
EXTRACTS AIR
 Extracts stale air removing toxins and reducing humidity.
- 
SUPPLIES FRESH AIR
 Supplies fresh air increasing the oxygen levels in the home and assists with managing the build up of moisture.
- 
ENERGY RECOVERY
 Recovers the heat from the outgoing air to preheat the incoming air, saving you money.



How it works.

The Lossnay 'Energy Recovery' system removes stale, dirty air and draws in fresh air from the outside. Lossnay also recovers energy from the air being transferred to pre-warm (or pre-cool) the fresh air being drawn into your home.

1. The stale air extracted from your home is (RA) Return Air. Return air can contain high levels of CO₂, odours and other pollutants. This return air stream also contains energy that Lossnay can recover, which is often not the case with other ventilation systems.
2. As the stale Return Air is removed, Lossnay's core 'recovers' the useful energy from it. The air is then exhausted (EA) outside along with the unwanted pollutants.
3. Outdoor Air (OA) is introduced to provide fresh clean air. It is first filtered, then passed through the Lossnay core. This allows it be pre-heated in winter (or pre-cooled in summer) using the energy recovered from the Return Air.
4. Supply Air (SA) then enters your house as fresh pre-heated or pre-cooled air.



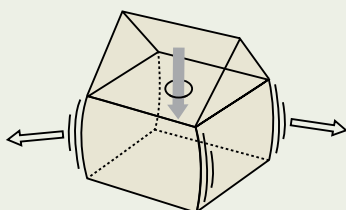
The Lossnay Home Ventilation System ensures the air in your home stays fresher, cleaner and drier.

The Lossnay Difference.

OLD - 'FORCED' ATTIC AIR VENTILATION

These systems force air into the home from the attic or via an outside grille. Because the air has been forced in, it leaks out through gaps in the building. This forces out heated air and replaces it with cold air. This air has to be heated, adding additional costs to your heating bill.

What's more, as newer homes are built to seal in the heat, they no longer have air gaps to allow effective operation of this type of system.



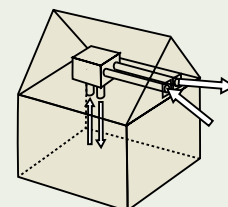
Air goes in and gets trapped.

NEW - LOSSNAY 'BALANCED' VENTILATION

Lossnay's **'balanced'** ventilation removes stale air and replaces it with clean, fresh air at the same rate.

As Lossnay can recover heat energy from the stale indoor air, the need for additional excessive heating is reduced. Which of course, means so is your total heating bill!

This perfect balance works for any house type.

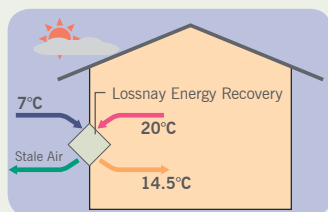


Air goes in and comes out.

Use less, pay less... all year round.

IN WINTER*:

If outdoor air is 7°C and the indoor air is at 20°C, then the supply air from the Lossnay would be 14.5°C. The supply air only needs to be heated by 5.5°C[†], to reach 20°C comfort temperature not 13°C, thus saving energy and money. With conventional ventilation systems, this energy would normally be wasted!

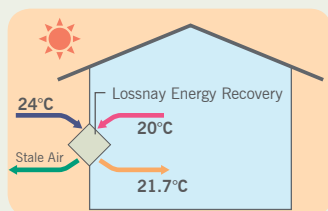


Energy recovered in Winter

[†] Note: Ventilation systems do not create heat. During winter Mitsubishi Electric recommends that Lossnay Fresh Air Energy Recovery Ventilation is used in conjunction with a Mitsubishi Electric Heat Pump. This will ensure a complete home solution providing both fresh air and energy efficient heating.

IN SUMMER*:

If the outdoor air is 24°C and the indoor air is 20°C, then the supply air would be 21.7°C. In summer the house will feel clean and fresh, even if you leave the house locked up for a long period of time.



Energy recovered in Summer

* Supply temperatures may fluctuate with humidity.

Lossnay: With an easy-use controller.

The Lossnay Controller is very easy to use with controls such as ON/OFF and 3 Fan Speeds. The controller is the same size as a light switch so it fits in with your house décor.

The filter sign is displayed after 3000 hours of operation. The FILTER button is used to reset the filter display. Note that the filter can easily be removed and cleaned by vacuuming - ensuring maximum operating efficiency.

The DISPLAY °C button is used to alter the display on the controller. You can have the room temperature or the supply air temperature displayed.



Preset your Comfort.

Lossnay's intelligent preset comfort zone ensures that air warmer than 28°C in summer, or cooler than 8°C in winter will not be introduced. (Settings can be adjusted by installer).

Assists Moisture Control.

Lossnay assists with moisture removal from your home by directly removing the stale air that causes condensation via the Lossnay core... this manages both energy recovery and moisture levels.

Lossnay. For a healthier home.

Operational reports have shown that Lossnay's filtering reduces the level of dust in your home - so there's less need for dusting and general cleaning, which can only be a good thing! What's more, lingering food smells are much more manageable, while constant fresh air circulation helps to minimise the buildup of moisture.

Lossnay. Subtle design and a quieter home.

Like all products from Mitsubishi Electric, the Lossnay system is designed to make life more comfortable. Fan operation is whisper quiet; while the discreet air vents will keep your home looking just the way you like it.

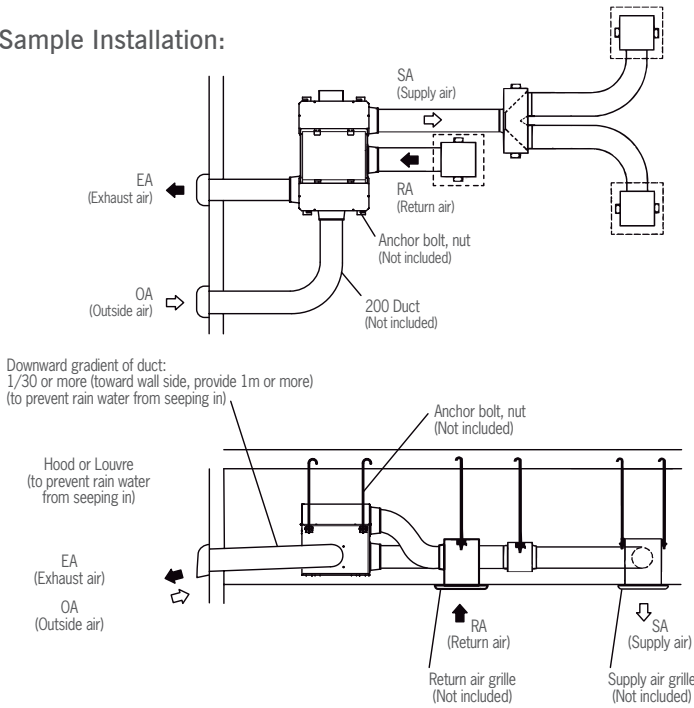
And if you live near busy roads or an airport, noise won't be a problem. Common ventilation systems funnel the outside noise into your home - Lossnay's core actually reduces noise by up to 50% for more relaxed indoor living.



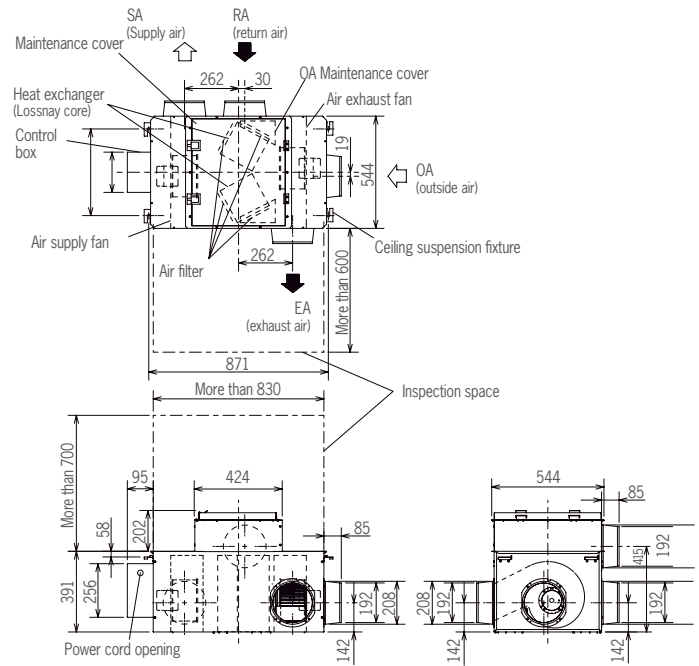
So, if you're thinking about installing a ventilation system in your home - think fresh outdoor air and 'Energy Recovery' by Lossnay.

Technical.

Sample Installation:



Dimensions:



Specifications:

Type	Lossnay – Residential			
Model	SKU-50RJ-E			
Heat exchange system	Air to Air total heat exchange (sensible heat + latent heat exchange)			
Heat exchange element material	Partition spacing plate – treated paper			
Operating range of outdoor and indoor	OA temperature -10°C to $+40^{\circ}\text{C}$, 80% RH			
Weight (kg)	35			
Power source/Frequency	Single phase 230v, 50Hz			
Starting current (A)	2.0			
Dehumidification (l/hr) **	2.62			
Duct size	200mm (Insulated)			
Fan speed	High	Middle	Low	
Current (A)	1.00	0.64	0.39	
Power consumption (W)	226	146	89	
Air volume	m^3/h	500	390	240
	l/s	139	108	67
External static pressure (Pa)	50*	30*	13*	
Noise dB, (Measured at 1.5m under panel)	38	33	26	

* Note: Total external static pressure maximum includes Return Air Fan.
OA = Outside Air RH = Return Humidity

** Dehumidification measurements are based on Outdoor Air Temperature 0°C (Dry Bulb) and 80% RH and Indoor Air Temperature 20°C (Dry Bulb) and 60% RH at High Fan Speed 139 l/sec.

Lossnay Ventilation Complies with Standards: AS/NZS60335.2.80 and AS/NZS CISPR14.1

Lossnay Sizing Guide				
SKU-50RJ-E Lossnay unit capable of 240 to 500 m^3/h , which will suit most house sizes at $0.50\text{m}^3/\text{h}$ air changes.				
House size m^2	Ceiling Height	House Air Volume m^3	$0.35\text{m}^3/\text{h}$ (NZS 4303)	$0.50\text{m}^3/\text{h}$ (BS Std)
100	2.6	260	91	130
150	2.6	390	137	195
200	2.6	520	182	260
250	2.6	650	228	325
House sizing guide is based on: <ul style="list-style-type: none"> British Standard (BS Std) for ventilation requiring 0.50m^3 Air Changes Per Hour. New Zealand standard (NZS4303) is 0.35m^3 Air Changes Per Hour. It is recommended that an installer inspects your property before installation. Larger home solutions are available - please contact your local dealer.				

NOTE: Mitsubishi Electric supplies the Lossnay unit and wall controller. Ducting, grilles, louvres and fixtures/fastenings are supplied by installer.

The above is a guide only based on standard duct runs, please contact an authorised installer to confirm. Multiple storied dwellings may require more than one unit.

5 years Parts and Labour Warranty.

Warranty conditions apply. Please be aware of these conditions prior to purchasing this product.

For more information contact:



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