

Now you *can* breathe cleaner air and also lower your heating bill. Don't you just love new, greener technology?



NEW Home Ventilation System

Made in Japan, designed for New Zealand conditions.

Lossnay. World Leaders in Fresh Air Energy Recovery.



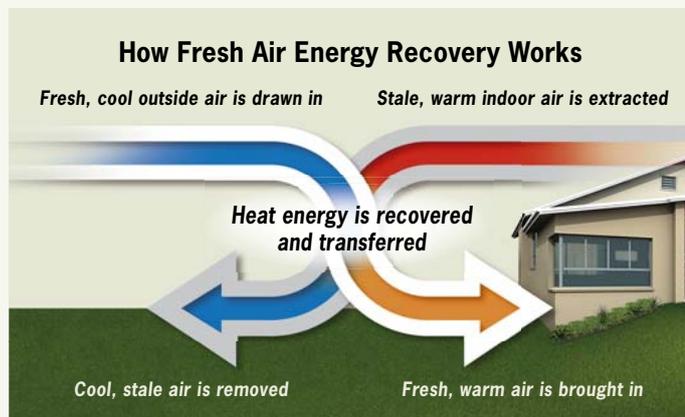
Lossnay Fresh Air Energy Recovery

- ✓ **Draws in fresh outdoor air**
- ✓ **Circulates the air continuously**

Lossnay is the fresher way.

The new Lossnay technology from Mitsubishi Electric is set to revolutionise standards in home ventilation. Stale air is extracted from inside your house to remove damp, odours, dust, bacteria and gasses. This air is then replaced with allergen reduced fresh air from outside - unlike some systems that recycle it from the dust-filled attic.

But where Lossnay gets really clever is with its environmentally friendly 'Energy Recovery' system. Put simply, energy within the stale air can be recovered and used to pre-heat or pre-cool the fresh air being vented in. So it warms the fresh air in winter, and cools it in summer.

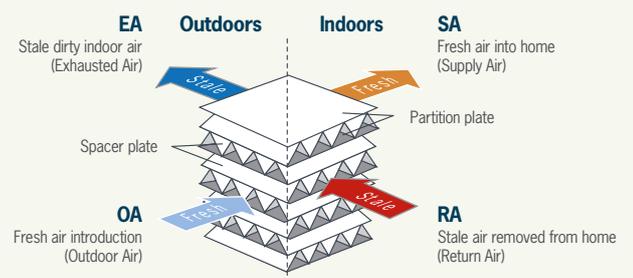


The Lossnay 'Energy Recovery' system removes stale, dirty air and draws in fresh air from the outside. It then recovers energy from the air being transferred to pre-warm (or pre-cool) the fresh air being vented into your home.

- ✓ **Retains Heat**
- ✓ **Reduces moisture**
- ✓ **Helps keep heating bills down**

How it works

1. The stale air found within your home is also known as Return Air (RA). This air can carry unhealthy levels of CO₂, and is a common problem in airtight buildings. However, Return Air also contains energy that can be put to good use and shouldn't be wasted - which is often the case with common ventilation systems.
2. As the stale Return Air is removed, Lossnay's heat exchanger 'recovers' the useful energy within it. The remaining air is then exhausted (EA) outside along with other unwanted pollutants.
3. Next, Outdoor Air (OA) is introduced from outside to provide the freshest, cleanest air available. It is 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, dry and mostly warm (or mostly cool) air.

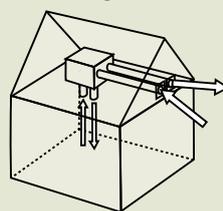


The Lossnay difference.

NEW - LOSSNAY 'BALANCED' VENTILATION

Lossnay's 'balanced' ventilation removes stale air and replaces it with clean, fresh air at the same rate. But because it recovers heat energy from the stale indoor air, the need for additional heating is reduced. Which of course, means so is your heating bill!

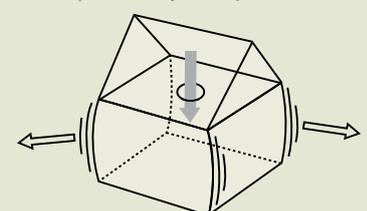
This perfect balance works for any house type.



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. And if that air was heated, you don't just pay to heat lost air but also the continuous reheating of new incoming air.

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.



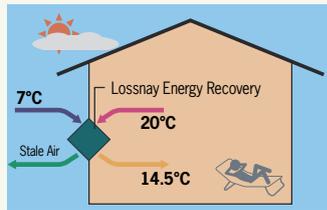


The Lossnay Home Ventilation System ensures the air in your home stays fresh, clean and dry.

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 energy recovered from the return air would be 14.5°C. Now the incoming air only needs to be heated by 5.5°C[†], not 13°C, thus saving energy and money. With conventional ventilation systems, this energy would normally be wasted!

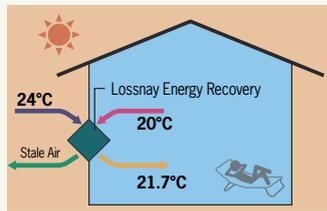


Energy recovered in Winter

[†] 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.



Energy recovered in Summer

* Supply temperatures may fluctuate with humidity.

Lossnay. For a healthier home.

Operational reports have shown that Lossnay's filtering reduces the level of dust in a 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.

Lossnay: With an easy-use controller.

The Lossnay Controller is very easy to use with common 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 - ensures 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).

Moisture Removal.

Lossnay effectively removes moisture from your home by directly removing the stale air that causes condensation via the Lossnay core... which manages both energy recovery and moisture levels.

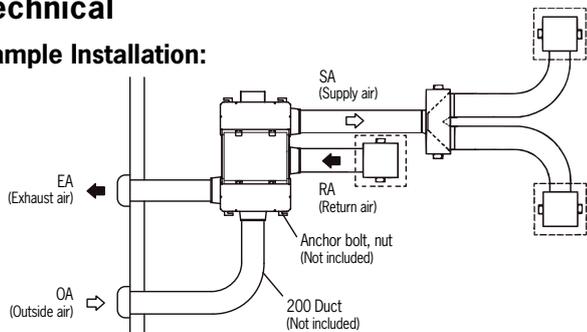
New Zealand testing has proven the unique Lossnay core effectively removes the moisture from the incoming air.



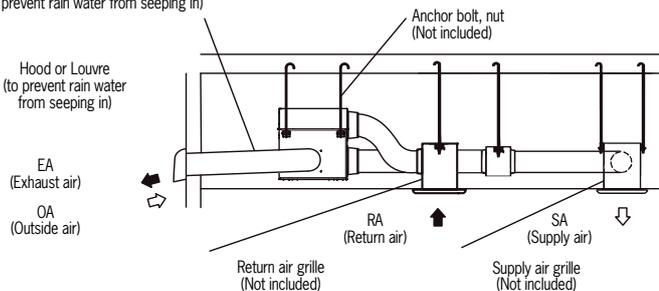
So, if you're thinking about installing a ventilation system in your home - think fresh outdoor air and 'Energy Recovery' by Lossnay.

Technical

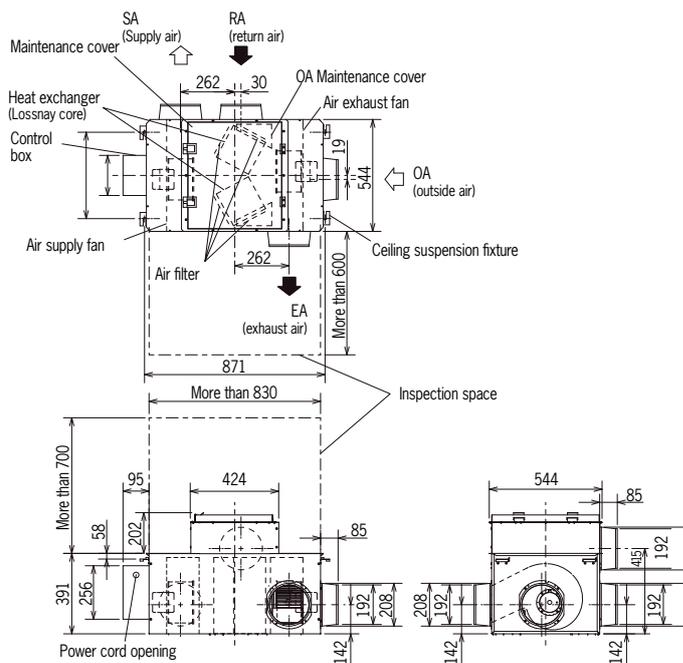
Sample Installation:



Downward gradient of duct:
1/30 or more (toward wall side, provide 1m or more)
(to prevent rain water from seeping in)



Dimensions



Specifications:

Type	Lossnay – Residential			
Model	SKU-50RJE			
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°C, 80% RH			
Weight	35kg			
Power source/Frequency	Single phase 230v, 50Hz			
Fan speed	High	Middle	Low	
Current (A)	1.00	0.64	0.39	
Power consumption (W)	226	146	89	
Air volume	m³/h	500	390	240
	l/s	139	108	67
External static pressure (Pa)	50	30	13	
Dehumidification l/hr OA 7°C (DB), 60% RH. RA 22°C (DB), 56% RH*	2.00	1.56	0.93	
Noise dB, (Measured at 1.5m under panel)	38	33	26	
Starting current	2.0A			
Duct size	200mm (Insulated)			

* OA = Outside air RH = Humidity RA = Return air

Warranty: 5 years Parts and Labour Warranty.

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

Lossnay Sizing Guide					
SKU-50RJE Lossnay unit capable of 240 to 500 m³/h, which will suit any house size from 100 to 400m² at 0.50m³/h air changes, as per below chart.					
House size m²	Ceiling Height	House Air Volume m³	0.35m³/h (NZS 4303)	0.50m³/h (BS Std)	Fan Speed
100	2.4	240	84	120	Low
150	2.4	360	126	180	Low
200	2.4	480	168	240	Low/Medium
250	2.4	600	210	300	Medium
300	2.4	720	252	360	Medium
350	2.4	840	294	420	Medium/High
400	2.4	960	336	480	High
House sizing guide is based on: • British Standard (BS Std) for ventilation requiring 0.50m³ Air Changes Per Hour. • New Zealand standard (NZS4303) is 0.35m³ Air Changes Per Hour. It is recommended that an installer inspects your property before installation.					

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

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.

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New publication effective July 2008. All features and specifications are subject to change and amendment at anytime. Product made in Japan
Where specifications are critical to design or pre-build we advise that you seek confirmation of accuracy from our product management team on (04) 560 9100.