

**Swap stale air for fresh... and save on heating.
Don't you just love new, greener technology?**



Lossnay. World Leaders in Fresh Air Energy Recovery.



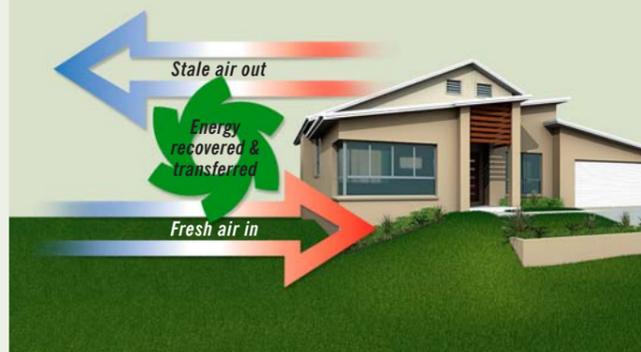
Most air ventilation systems simply move air of different temperatures around within your home. Not only does the air remain stale and lack oxygen, often, these systems also remove the very air you've just heated. Not exactly great for the environment or your energy bill!

Lossnay is the fresher way.

The new Lossnay technology is the latest in home ventilation from Mitsubishi Electric. Meaning 'no loss' in Japanese, Lossnay removes the stale dirty air from inside your house to get rid of damp, odours, dust, bacteria and gases. This air is then replaced with fresh air from outside - not recycled from the 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.



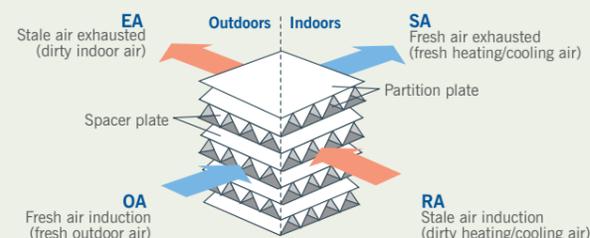
How does a Lossnay Ventilator work?

The Lossnay Energy Recovery Ventilator by Mitsubishi Electric uses the air normally wasted by common ventilation systems, to pre-heat or pre-cool the incoming fresh air.

The material used to transfer the energy is made from specially treated paper that is laid in opposing directions.

Return Air (RA) is the stale air that can carry unhealthy levels of CO² (a common problem in air tight buildings), but this air contains energy which should not be wasted. That's why it is recovered and the air is then exhausted (EA) to be expelled outside along with odours, dampness, bacteria and sometimes-forgiveness gases.

Next, Outdoor Air (OA) is introduced from outside to provide the freshest, cleanest air available. It is filtered, then passed through the Lossnay core - which allows it to be pre-heated in winter (or pre-cooled in summer) using the energy from the Return Air. The fresh, clean Supply Air (SA) is then brought inside your home.

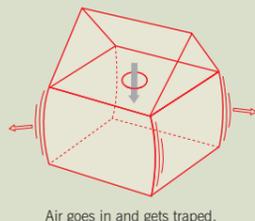


The Lossnay difference.

COMMON 'FORCED' ATTIC AIR VENTILATION

These systems force air into the home from the attic or via an outside grill. The air inside now leaks out through gaps in the building - and if that air was heated, it's now lost with the incoming air now needing to be re-heated!

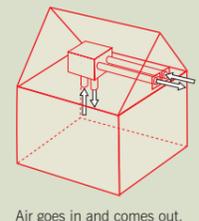
And there's another factor - as newer homes are built to seal in the heat, they no longer have air gaps to allow effective operation of this type of system.



LOSSNAY 'BALANCED' VENTILATION

Lossnay's 'balanced' ventilation removes stale air and replaces it with clean, fresh air at the same rate. But in doing this, it retains the majority of the heat energy from the indoor air - reducing the need for additional heating. This perfect balance works for any house type.

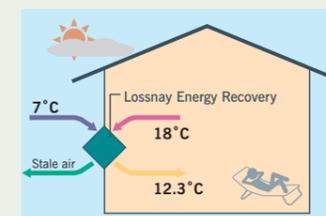
A majority of the heat energy within the indoor air is retained, so you don't have to pay to heat the air again! Fresh air goes in and stale air comes out.



Lossnay. Working for you all year round.

IN WINTER:

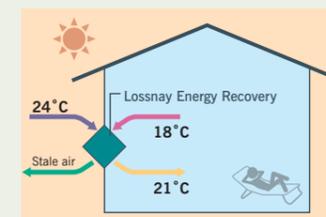
If outdoor air is 7°C and the indoor air is at 18°C, then the energy recovered from the exhaust air would be 12.3°C. Now the incoming air only needs to be heated by 5.7°C, not 11°C, thus saving energy. Remember, this energy would normally be wasted!



Energy recovered in Winter

IN SUMMER:

If the outdoor air is 24°C and the indoor air is 18°C, then the energy recovered from the exhaust air would be 21°C.



Energy recovered in Summer

In summer the house will feel clean and fresh, even if you leave the house locked up for a long period of time.

Lossnay. For a warmer, drier, 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! The system is therefore ideal for those suffering from Asthma or airborne related allergies. Lingering food smells can even be managed. And constant fresh air circulation through the Energy Recovery core, will help to minimise moisture buildup.

Lossnay. Subtle design and a quieter home.

You won't have to worry about the fan noise getting up your nose because operation is very quiet, while the barely visible air vents will keep your home looking just the way you like it.

And if you live near noisy roads or an airport, noise won't be a problem. Common ventilation systems funnel the outside noise into your home, but not Lossnay. Its Core 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 that need little explanation. The controller is the same size as a common light switch, so it fits in easily with your house décor.

FAN SPEED CONTROL: Three fan speeds to adjust the volume of air circulating through the home.

DEGREES °C BUTTON: This button is used to alter the display on the controller. You can have the room temperature displayed or the supply air temperature displayed.



FILTER BUTTON: This button is used to reset the filter display by pressing it twice. The filter sign is displayed after 3000 hours of operation. Note that the system filter can easily be removed and cleaned by vacuuming - ensures maximum operating efficiency.

STANDBY MODE: The system automatically switches to Standby Mode if the air supply is below 8°C or above 28°C. The temperature displayed refers to the incoming supply air temperature.

Lossnay. With a 3 Year Warranty.

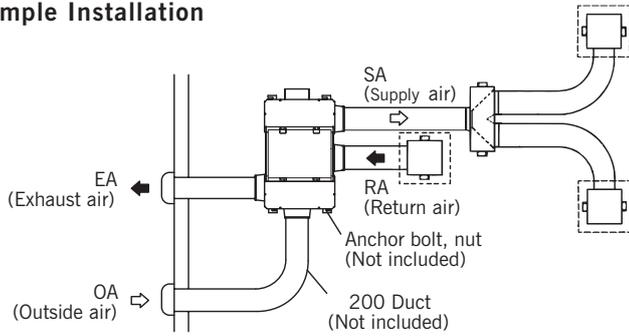
Mitsubishi Electric Lossnay Units come with a full 3 year parts and labour warranty.



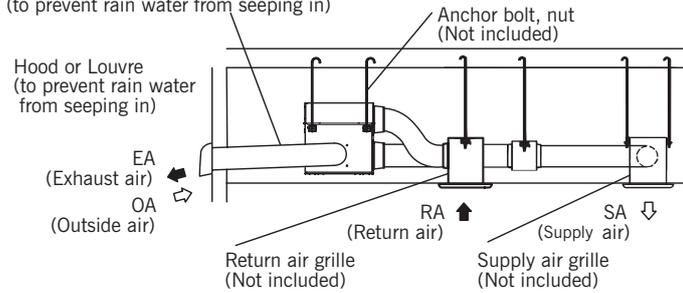
So, if you're thinking about installing a ventilation system in your home - think fresh outdoor air and 'Energy Recovery' by Lossnay.

Technical

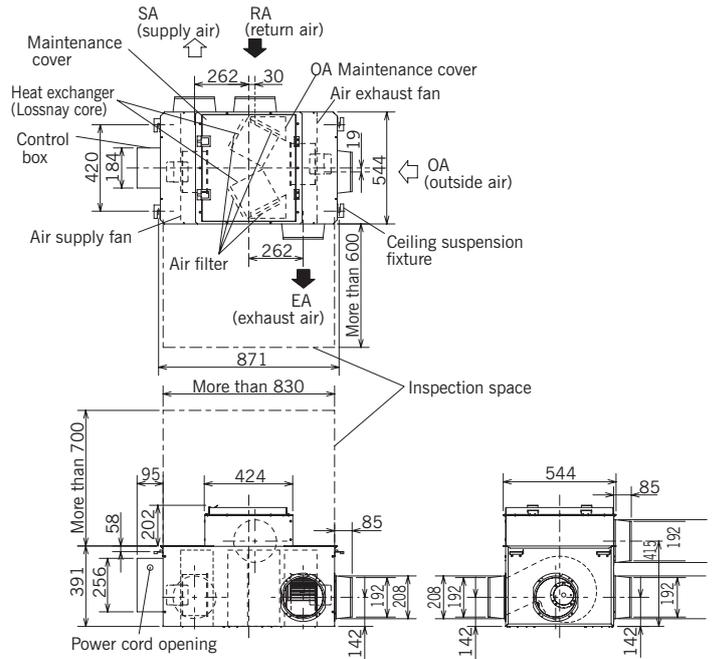
Sample Installation



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-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°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/s 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			

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

Lossnay Sizing Guide					
House Size m ²	Ceiling Height	House Air Volume m ³	NZ 4303	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 0.5 Air Changes Per Hour. New Zealand standard (NZ4303) is .35 Air Changes Per Hour.					

Warranty: 3 years Parts and Labour Warranty.

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

NOTE: Mitsubishi Electric supply Lossnay unit. Ducting, grilles, louvers 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.



Distributed by



AUCKLAND

Unit 1, 4 Walls Road
PO Box 12-726, Penrose
Phone (09) 526 9347, Fax (09) 526 9348

WELLINGTON (HEAD OFFICE)

1 Parliament Street
PO Box 30-772, Lower Hutt
Phone (04) 560 9147, Fax (04) 560 9133

CHRISTCHURCH

Suite 2, Level 1, 37 Mandeville Street
PO Box 1604, Christchurch
Phone (03) 341 2837, Fax (03) 341 2838