

ECO VENT™

Fresh Air Ventilator

The ideal solution to the high cost of introducing fresh air into HVAC systems. Eco Air Fresh Air Heat Reclaim Ventilators.

The Fresh Air Issue

All over the world, Standards for Ventilation of Buildings are requiring higher volumes of fresh air be introduced into HVAC systems. This is due to the common practice of having tightly sealed, highly insulated buildings, which do not “breathe”. The increased amount of fresh air makes the traditional A/C unit oversized, expensive and costly to run. How can we introduce sufficient fresh air, without severely impacting HVAC equipment size or running costs?

The Eco Air Environment

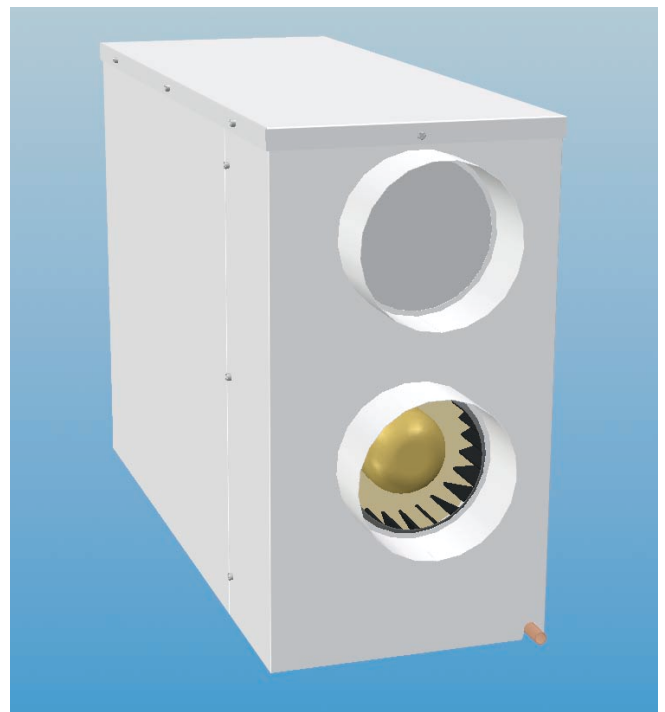
Eco Air Fresh Air Heat Reclaim Ventilators (HRV) will supply fresh air at near room temperature, by reclaiming the energy of exhausted room air. Plant capacity can be as much as 15 - 20% smaller than a similar installation which does not use Eco Air Fresh Air Heat Reclaim Ventilators. That means energy cost savings of up to 20%.

Eco Air - The Investment

Eco Air Fresh Air Heat Reclaim Ventilators will be paid for by the reduced plant size and savings in energy costs. In some applications, such as hotel rooms, Eco Air units can also be used for combined toilet exhaust and fresh air supply, which alleviates the need for additional separate and costly toilet exhaust systems.

Eco Air - The Savings

Due to the use of the patented counter flow heat exchanger, Eco Air Fresh Air Heat Reclaim Ventilators are significantly smaller, lighter and lower in cost than products using cross-flow or parallel-flow heat exchangers. With a much lower pressure drop through the unit, Eco Air Fresh Air Heat Reclaim Ventilators also have smaller fans, which use less energy. By choosing Eco Air, there will be savings in space, capital and installation costs, as well as ongoing energy costs.



TYPICAL MODELS AND SIZES

MODEL	HRV80	HRV120	HRV300	HRV400
Fresh Air L/s	80	120	300	400
Exhaust Air L/s	75	110	280	380
Height mm	500	500	500	500
Width mm	240	280	530	800
Length mm	700	700	700	1020
Weight	15kg	17kg	30kg	46kg
Application	Bedrooms, living rooms, hotel rooms, toilets, coolrooms	Boardrooms, hotel rooms, domestic homes, indoor pools, laboratories, commercial toilets	Offices, homes, schools, bars, restaurants, shops, hospitals, nursing homes, medical clinics	
Power consumption watts	116	140	370	580

Note: Airflows are nominal and specifications are subject to change without notice.

Eco Air Counterflow Heat Reclaim Ventilator

Heat Exchanger Efficiency

- Eco Air Counterflow Heat Exchanger is more efficient than conventional cross flow heat exchangers.
- Eco Air Heat Exchanger allows 3 times the air flow of competitive units for the same static pressure with efficiencies of up to 70%.
- Tested to Ashrae 84-1991 by NATA Certified Vipac Engineers and Scientists.

Construction

- Patented heat exchanger core made from continuous aluminium plates, guaranteed for 5 years. Pre-painted zinc coated steel cabinet.

Easy Installation and maintenance

- Compact size, light weight, low profile and minimum maintenance.
- Electrics are 240 Volts, 50 Hz and single Phase.

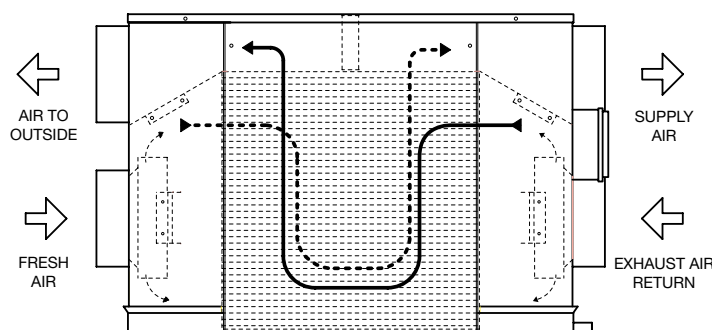
Australian designed and manufactured.



Featured in the Australian Technology Showcase - an international campaign promoting the best of Australia's technology.



Government initiative to promote and foster energy efficient technologies to reduce the level of greenhouse gas emissions.

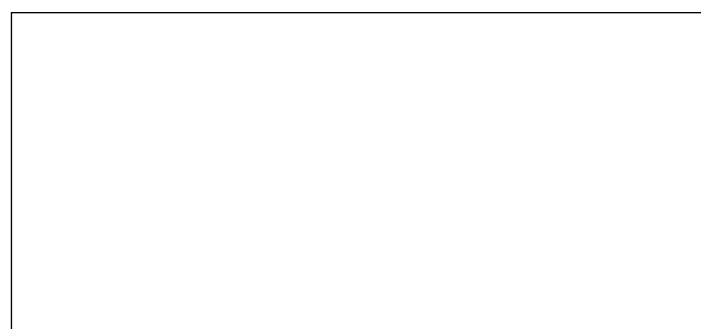


AIRFLOWS OF STANDARD HRV UNIT



For more information

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Specialist suppliers of energy efficient indoor air quality solutions