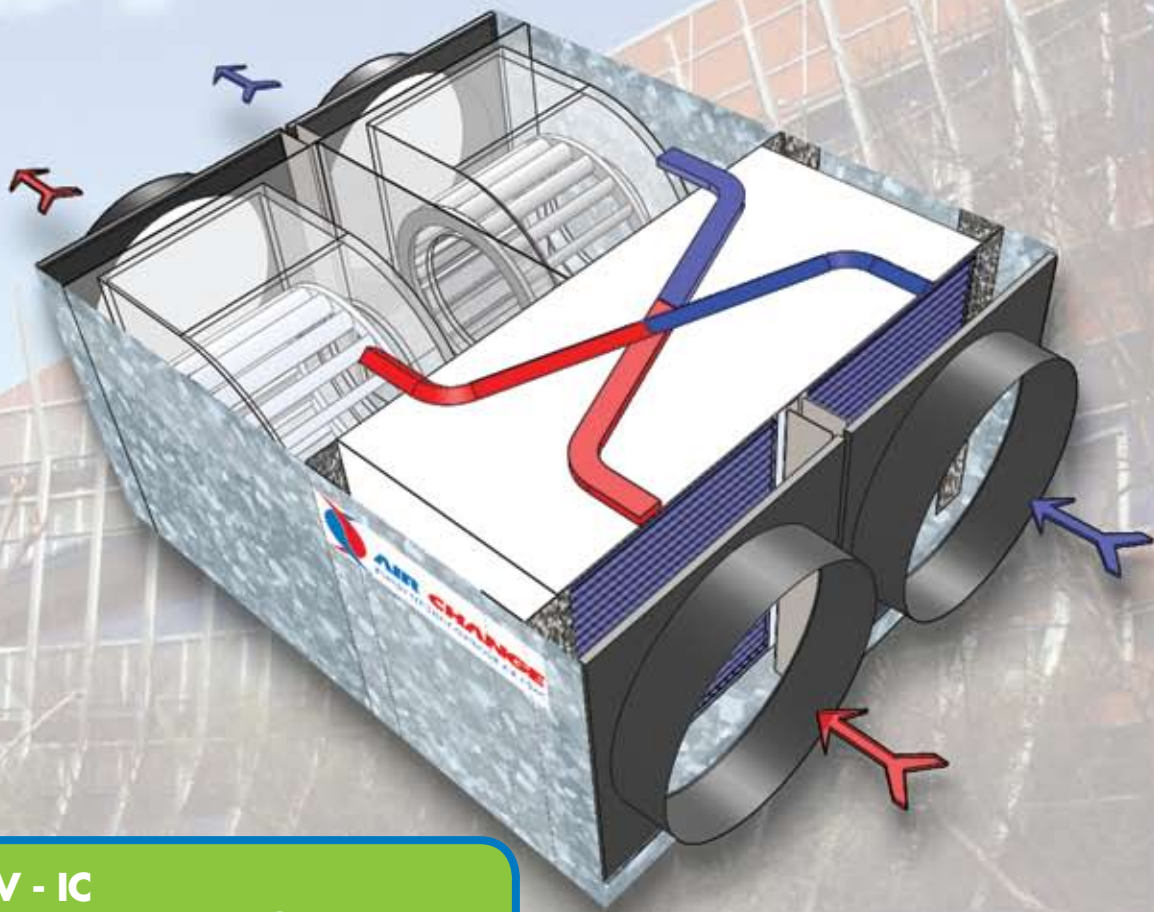




ERV – In Ceiling

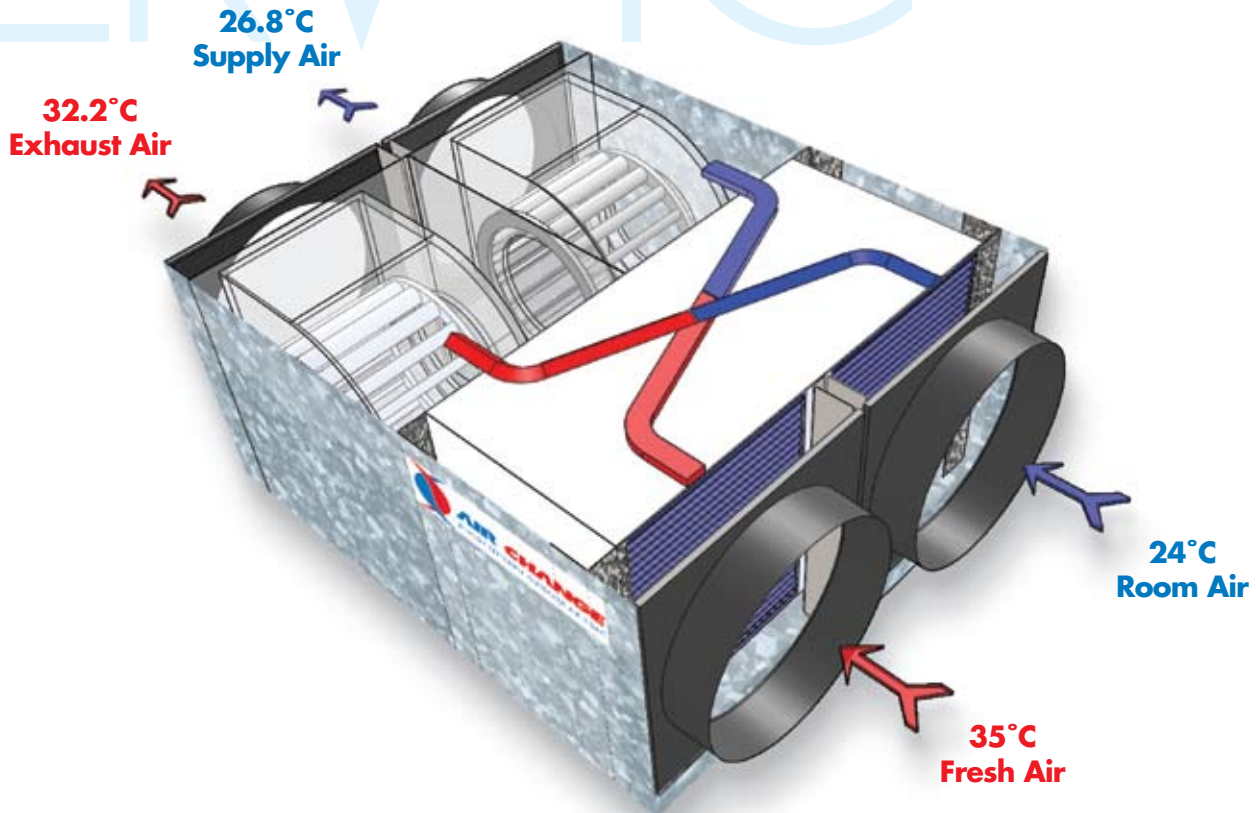


ERV - IC Energy Recovery Ventilator - In Ceiling

Up to 600 l/s outdoor air

- Satisfies BCA Section J requirements
- Improved Indoor Air Quality with minimal energy use
- Low capital and installation cost
- Earn Green Star credit points
- Low profile of 450mm – perfect for tight spaces

ERV-IC



ERV - In Ceiling is a low cost solution to reducing the energy used to deliver treated outdoor air to an air conditioned space. The ERV - IC improves Indoor Air Quality and satisfies Australian Standards and the building codes for ventilation. The ERV - IC de-humidifies and pre-cools hot outdoor air in summer and pre-heats cold outdoor air in winter. This reduces the total outdoor air energy load of an air conditioning system by around 75%. Traditional systems use more energy as they do not pre-condition outdoor air.

Energy savings will vary according to the design conditions as shown in the table below.

Energy Recovery Reduces the Fresh Air Load

The table shows equivalent fresh air loads (kW) with and without the Air Change energy reclaim system

Litres per second	Number of People	Sydney		Brisbane		Nth Qld/Darwin		Adel/Melbourne		Perth	
		With ERV kW	No ERV kW	With ERV kW	No ERV kW	With ERV kW	No ERV kW	With ERV kW	No ERV kW	With ERV kW	No ERV kW
100	10	0.7	2.7	0.9	3.6	1	4.1	0.5	1.8	0.6	2.2
200	20	1.4	5.4	1.8	7.3	2.1	8.3	0.9	3.7	1.1	4.4
300	30	2.0	8.1	2.7	10.9	3.1	12.5	1.4	5.5	1.7	6.6
400	40	2.7	10.8	3.6	14.5	4.1	16.6	1.8	7.3	2.2	8.8

In Sydney the difference is 8.1kW. An 8.1kW AC reduction can pay for the equipment before you start. Further running cost savings will follow!



Multi Award Winning Technology

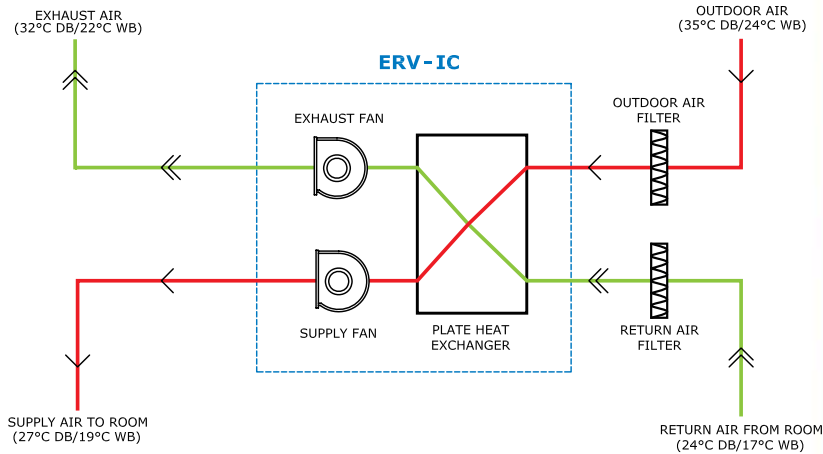
SEDA "Green Globe" Winner 2002 & 2003

AIRAH "Excellence in HVAC" Winner 2003 (Qld) & 2006 (National)

Installation Examples

Below are two common methods of utilising the ERV - IC to condition outside air.

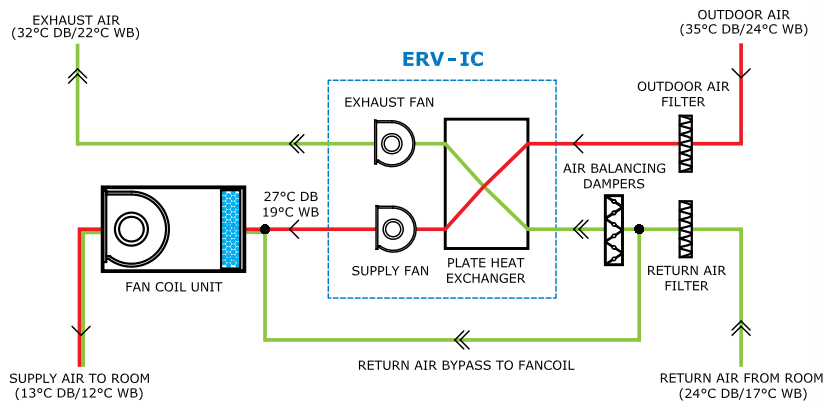
1. Installation – separate to AC system



Installed separately to an AC system, the ERV - IC will provide pre-conditioned outdoor air direct to the room. This air will then mix with cool recirculating air from a separate air conditioning system to reduce overall required capacity.



2. Installation – connected to AC system



Installed connected to an AC system, the ERV - IC will provide pre-conditioned outdoor air directly into the AC system thereby reducing the required system capacity.



Please contact Air Change technical engineers for any specialised applications.



Hastie Australia

Located in the heart of Homebush NSW, Hastie's offices incorporate the latest in technology and energy initiatives and are registered for Green Star – Office Interiors v1.1.

Consultant: Hastie Australia

Installation: Hastie Australia



Umow Lai

Aiming to have the freshest working office environment in Australia, Umow Lai's urban renewal project, situated in South Yarra VIC, features bio-filtration walls and Air Change ERV - IC's

Consultant: Umow Lai

Installation: Boyle & Grigg



Pendelino Restaurant

Located in Sydney's historic Strand Arcade, Pendelino Restaurant specialises in Italian regional cuisine and caters for up to 160 people.

Consultant: Thwaite Consulting

Installation: Paradise Air Conditioning



Featured in the Australian Technology Showcase



Proudly Australian Made and Internationally Patented



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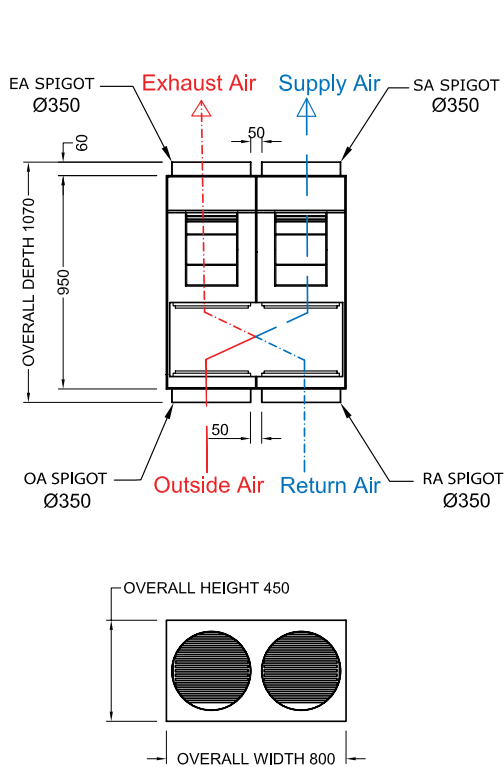
ERV - IC - Energy Recovery Ventilator – In Ceiling

PRODUCT	ERV - IC 300			ERV - IC 400			ERV - IC 600		
Speed Power Supply Air (V/Ph/Hz)	240/1/50								
Speed	Low	Med	Hi	Low	Med	Hi	Low	Med	Hi
Current Draw (Amps)	1.4	2	2.7	2.1	2.6	3	5.8	6.9	7.8
Power Input (kW)	2 x 130 W Fans			2 x 240 W Fans			2 x 600 W Fans		
Effectiveness	75 % Sensible and Enthalpy								
Noise Level @ 1.5m (dBA)	36	38	39	39	42	44	45.8	46.9	47
Weight (kg)	90			90			155		

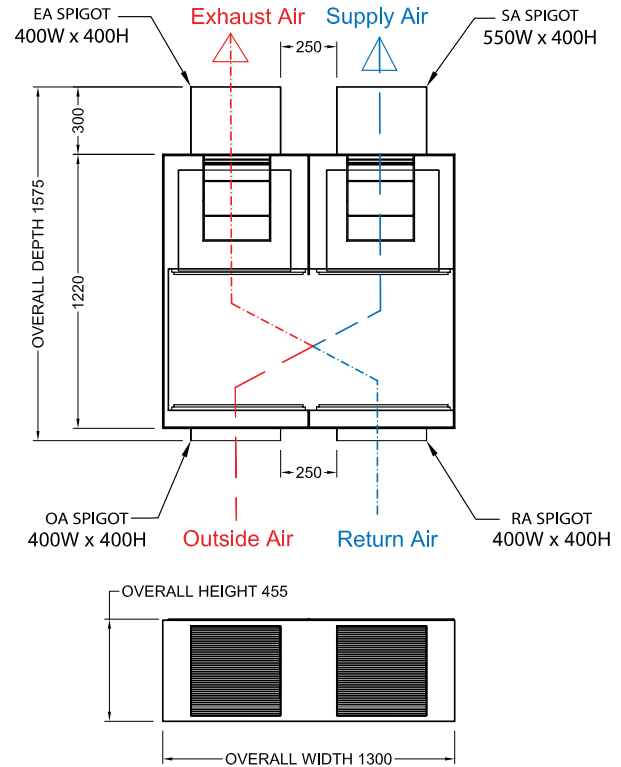
*Please contact Air Change engineers for detailed specifications

ERV - IC Dimensions

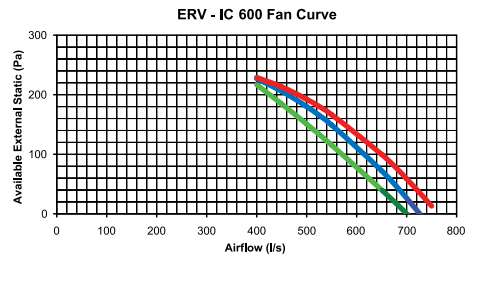
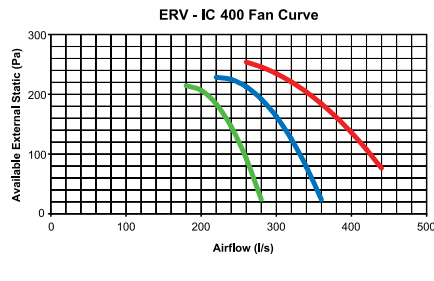
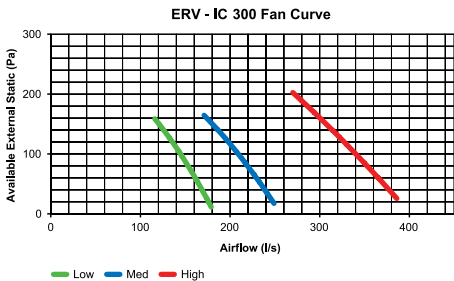
ERV - IC 300 & 400



ERV - IC 600



Fan Curves



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