



Energy/Heat Recovery Ventilators and Air Handling Units

fresh air

Up to 100% Outdoor Air with Energy or Heat Recovery

Energy Efficient Ventilation

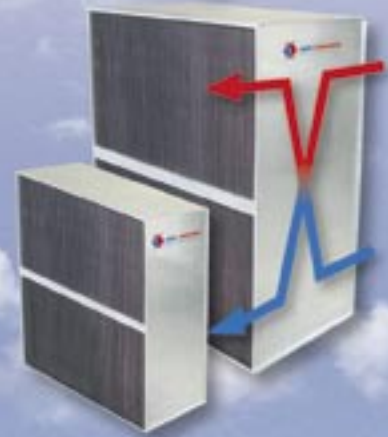
- Provides up to 75% reduction of "fresh air load" (ERV)
- Sensible Transfer System reclaims temperature with up to 80% efficiency (HRV)
- Energy savings provide fast pay back period
- Energy/Heat reclaim allows for smaller capacity air conditioners.

Improve Indoor Air Quality

- Exhausts airborne contaminants i.e. bacteria, smoke, disease, dust, that conventional air conditioning re-circulates (Sick Building Syndrome)
- Increase productivity & reduce sick leave
- With a well designed system, total outdoor air can create dynamic air barriers protecting occupants from airborne pollutants
- No mixing of fresh and exhaust air streams
- Can be retro fitted to existing systems for energy efficient fresh air.

Air Handling Units (AHU)

- Purpose built complete with hot or cold water coil, supply and exhaust air fans and sensible/enthalpy heat exchanger
- AHU matched to chillers or large commercial systems when a high volume of outdoor air is required.



Australian Institute of Sport Air Handling Unit 12,000 L/s with Hot/Cold Water coils and return air bypass

Applications

- Everywhere fresh air is required, such as gymnasiums, clubs, hotels, cinemas, hospitals, laboratories and all commercial buildings
- HRV unit is ideal for indoor pools as it eliminates condensation and does not transfer moisture to the incoming air.

Innovative Technology

Unique "counterflow" Enthalpy Heat Exchanger transfers moisture and temperature (ERV).

Sensible heat exchanger transfers temperature only (HRV).



St Ignatius Riverview College



Australian Institute of Sport



Spirit of Tasmania Trans-Tasman Line Terminal



Energy & Heat Recovery Ventilator Units

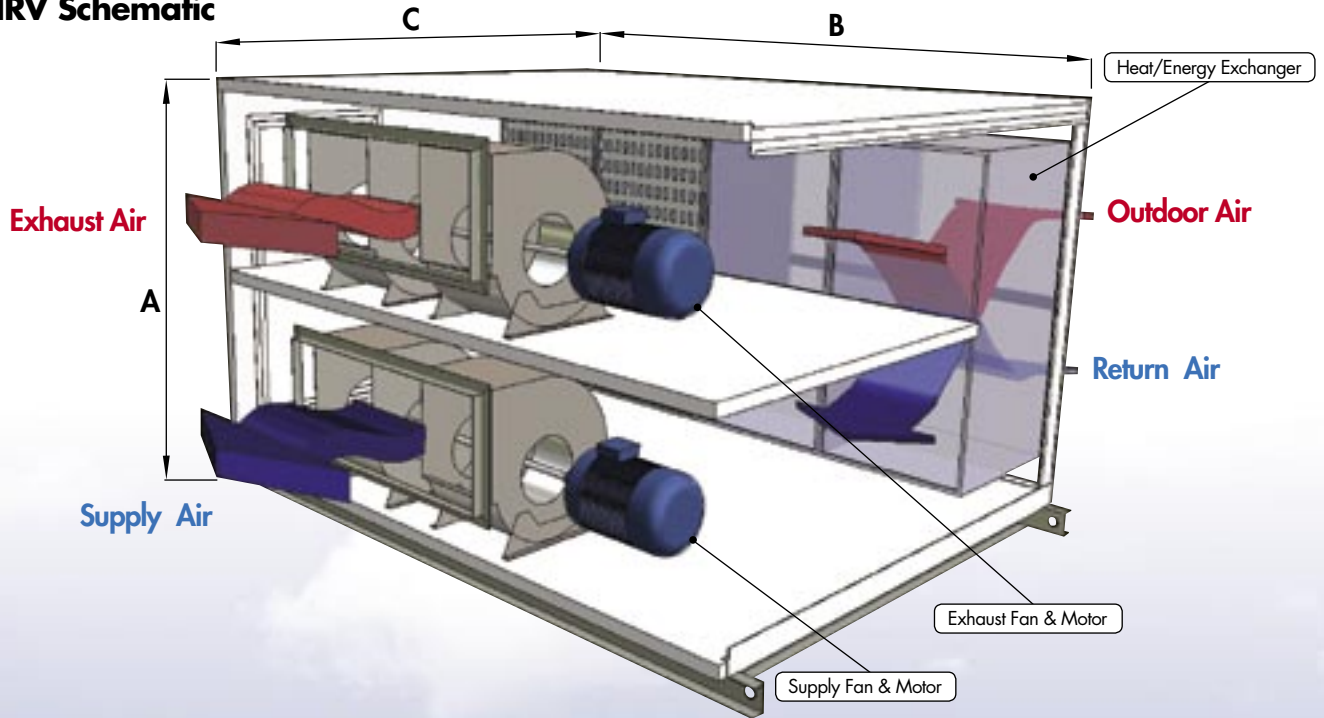
Air Handling Units also available. Contact Air Change for full technical specifications.

To ensure correct selection for your next project contact our engineering team for assistance on unit sizing.

Model Number	ERV/HRV 1000	ERV/HRV 1500	ERV/HRV 2000	ERV/HRV 2500	ERV/HRV 3000	ERV/HRV 3500	ERV/HRV 4000	ERV/HRV 4500	ERV/HRV 5000
Flow Rate (L/s)	700-1000	1000-1500	1500-2000	2000-2500	2500-3000	3000-3500	3500-4000	4000-4500	4500-5000
External Static (Pa)	<150	<200			<300			<350	
Fans	Single Phase Direct Drive, 3 Speed*			Three Phase Direct Coupled Motor/Fan, VSD controlled					
Volt/ph/Hz	240/50/1			415/50/3					
Weights (kg)	250	300	550	600	650	750	800	1000	1100
Construction	50mm sandwich panel, 0.6mm clad colourbond both sides. UV treated polymer joiners for maximum strength, insulation and durability.								

* VSD coupled option available on request for ERV/HRV 2000

ERV/HRV Schematic



No more belts and pulleys!

Fan and motors are directly coupled for energy savings and lower noise levels with reduced service calls.



Variable Speed Drives

Control fan speeds and also provides additional electronic protection for compressors and 3 phase fan motors.

Model Number	ERV/HRV Dimensions		
	A (Height)	B (Depth)	C (Width)
ERV1000	1150	1400	1180
ERV1500	1150	2000	1180
ERV2000-ERV3000	1650	2250	1730
ERV3500-ERV4000	1650	2900	1730
ERV4500-ERV5000	1965	3550	1880



Air Change Pty Ltd - Leaders in Heat Exchange Technology

Phone 02 9531 4699 Fax 02 9531 5294

QLD 07 3809 3987 Fax 07 3809 3989

SA 08 8366 6563 Fax 08 8366 6501

Email sales@air-change.com Internet www.air-change.com

