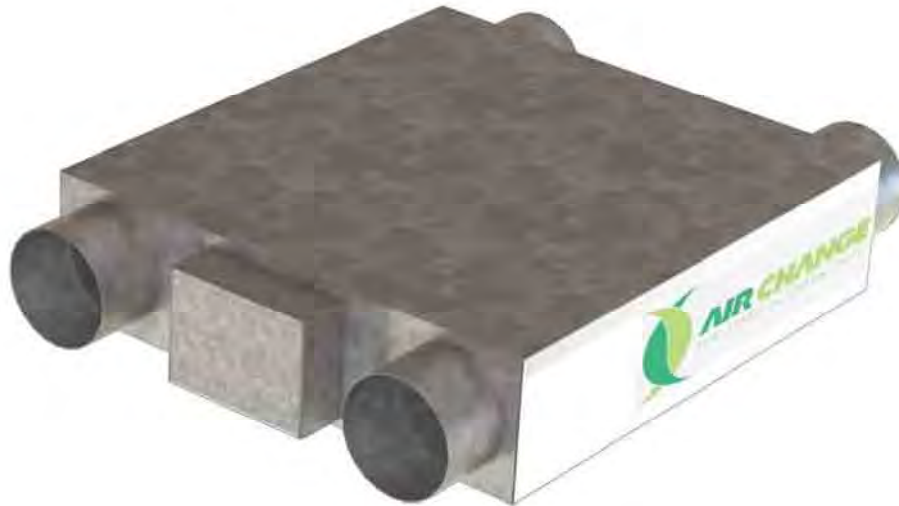


ERV-IC 70

In Ceiling Energy Recovery Ventilator 40-70L/s



Many apartment buildings and houses are now being tightly sealed for improved energy efficiency. In conjunction with strict fire codes, mechanical ventilation is an important aspect for designers. The ERV-IC 70 is a cost effective and energy conscious method of discreetly extracting bathroom exhaust and simultaneously supplying outdoor make up air. Also designed to be used in conjunction with conventional air conditioners to improve air quality and reduce fresh air load. Air flows from 40-70 L/s to suit domestic to small commercial applications.

Energy Efficient Design

- Plate heat exchanger enables pre-cooling and re-heating
- Variable air flow from 40 L/s to 70 L/s
- High efficiency enthalpy or sensible air to air counter-flow Heat Recovery reduces air conditioning capacity by up to 50%
- SA & RA / OA & EA are located on the same side
- Ultra low profile height of 180mm
- Convenient side access to fans and motors
- Whisper quiet operation mode, ideal for residential installations
- Improves Indoor Air quality – Complies with section J of BCA
- Multi award winning Australian made, internationally patented technology



ERV-IC 70

Construction / Installation

- The counter flow sensible air-to-air plate heat exchanger inside the ERV-IC 70 will reclaim up to 80% of the energy from the exhaust air (enthalpy reclaims up to 75%)
- Fans are accessible for servicing or replacement
- The ERV-IC 70 is a fully ducted unit, designed to remove stale air from an air conditioned space and replace it with 100% outdoor air
- The low profile design makes it ideal to fit into tight ceiling spaces
- Mechanical ventilation compliant with strict fire codes
- Ideal for bathroom exhaust for apartments and units

Standard Features

- High efficiency air-to-air counter-flow sensible or enthalpy plate heat exchanger with;
 - drain trays
 - no moving parts for low maintenance
 - large passages to reduce blockages
- Factory set constant air flow – The fans will maintain constant air flow within its capacity even if filter blocks up slightly
- Air flow intake/exhaust spigots can be arranged to suit various installation configurations
- High efficiency fan with EC motor
- Built-in fire retarded filters

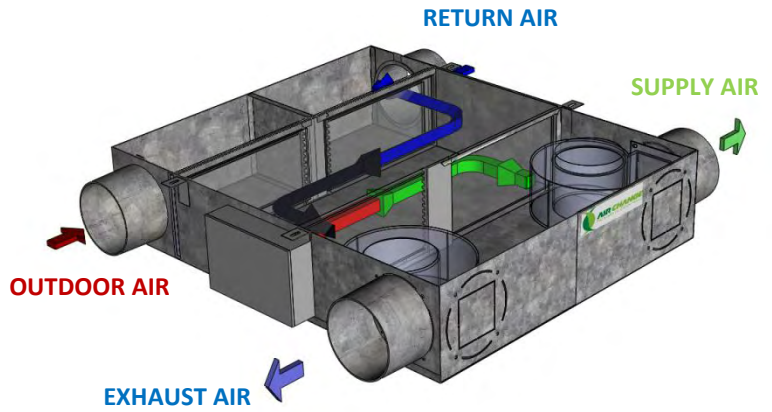
Options

- Integrated electronic control with CO₂ sensors

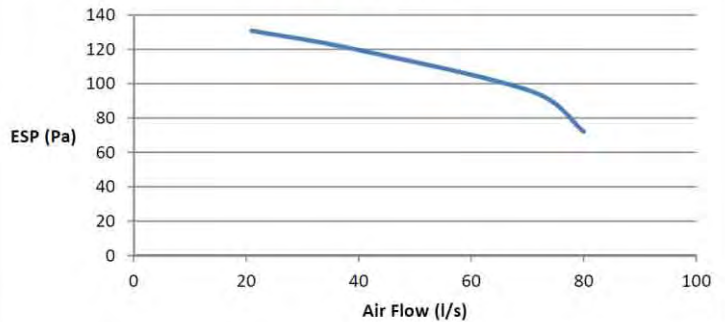
Contact Air Change for assistance with options

ERV- IC 70		
TECHNICAL SPECIFICATIONS	UNIT	VALUE
Supply Air Nominal	L/s	40-70
Exhaust Air Nominal	L/s	40-70
SUPPLY FAN		
Fan Control		Fully Adjustable
Motor Power	W	25
EXHAUST FAN		
Fan Control	rpm	Fully Adjustable
Motor Power	W	25
ELECTRICAL POWERING		
Supply Fan FLA (Max)	A	0.22
Exhaust Fan FLA (Max)	A	0.22
Total Full Load Amps	A	0.44
DIMENSIONS		
Height	mm	180
Width	mm	860
Length (excludes spigot)	mm	715
Weight	kg	25
SPIGOT SIZE		
Exhaust Air	mm	Ø 150
Outdoor Air	mm	Ø 150
Supply Air	mm	Ø 150
Return Air	mm	Ø 150
SOUND PRESSURE LEVELS dB(A) at 1.5m within room		
38 dB(A) at 40 L/s 44 dB(A) at 70 L/s		
GENERAL		
Integrated electronic control with CO ₂ sensors (Optional) Built-in fire retarded filters High efficiency fan with EC motor		

ERV-IC 70 SCHEMATIC:



Air Flow vs ESP



ERV-IC 70 TECHNICAL DRAWING:

