# innovair®

# ISALE150
## ERV - Energy Recovery Ventilator

Side Port Model          Top Port Model

CSA ⓒ ⓤ US

AHRI CERTIFIED®
www.ahridirectory.org

HVI 2100 CERTIFIED          CSA-C439-18

## Features

### Air flow and performance
• Fully adjustable air flow (150 cfm @ 0 in.w.g.).
• 63% sensible recovery effectiveness at 0 °C (32 °F) 30 L/s.

### Voltage
• 120V, 60Hz, 1A.

### Benefit
• Reduce heating demand in winter and cooling demand in summer.
• Whisper-quiet: factory calibrated and balanced.
• Easy installation and maintenance.
• Designed and manufactured in Canada to operate in variable climatic conditions.

### Construction
• Door and housing in corrosion-resistant galvanized steel, 24-gauge, pre-painted neutral white.
• Convenient, screwless hinged door.
• Ultra-thin: 9 in. (229 mm).
• No drain required.
• Lightweight for ease of installation: 33 lb (15 kg).
• Port size: 5 in. (127 mm).
• Merv8 charcoal polyester filters. Merv13 filters in option (SA-FI-M13).
• Two configurations to optimize your space: Side Port or Top Port models.
• Reverse air flow configuration available as a factory installed option (-R). For further explanation, please refer to the document Normal and Reverse.
• Foam for ceiling installation for Top Port models only, available as a factory installed option (-F).
• Backdraft damper required on fresh air inlet (not supplied).

### Motor
• Energy-efficient, sealed European motor with closed housing and automatic reset thermal protection.
• Balancing without flow keys. 100% electronic adjustment. Pressure ports integrated into the door for precise, easy balancing.

### Energy recovery core
• High-efficiency 100% polymer core, extremely durable.
• Recovers both latent and sensible energy. (Heat and Humidity).
• Meets or exceeds ASHRAE 90.1-2010.
• Washable in soapy water to recover its full effectiveness without deterioration or contamination.
• Antimicrobial protection - ISO846.
• Avoid virus transfer - ASTM F-1671 tested.
• Zero crossflow contamination - Certified according to AHRI 1060.
• UL94 HB Flammability tested.

### Control/timer
• 2 control choices available:
  - Optional Decora-style wall-mounted control/timer (SA-LT15). INTERMITENT (20-40) – CONTINUOUS – OFF – Timer (20-40-60 minutes).
  - Optional digital Decora-style wall-mounted control/timer (SA-LCD15). INTERMITENT (20-40) – CONTINUOUS – Humidity – Recirculation – OFF

### Installation
• Can be ceiling-mounted or suspended.
• Easily installed in the ceiling void or just below the fire-rated ceiling.
• Set of nylon suspension straps included for installation.
• Steel mounting plate for Top Port with foam models only, available as an option (SA-P5).
• Furnace interconnect plug connector factory installed.

### Setting
• Balance the unit using the supplied instruction named: Balancing.
• All the installer needs are the required flow rates, a manometer, and 5 minutes to adjust and balance the system.
• Simply specify the air flow rates for LOW SPEED and HIGH SPEED.
• The static pressure of the system should ideally be less than or equal to the static pressure indicated by the graph for HIGH SPEED.
• You don't have to worry about static pressure to limit air flow or adding flow keys as other devices. All you must do is provide ducting that doesn't limit maximum flow, and the unit's adjustments will allow you to fine-tune flow rates.

### Warranty
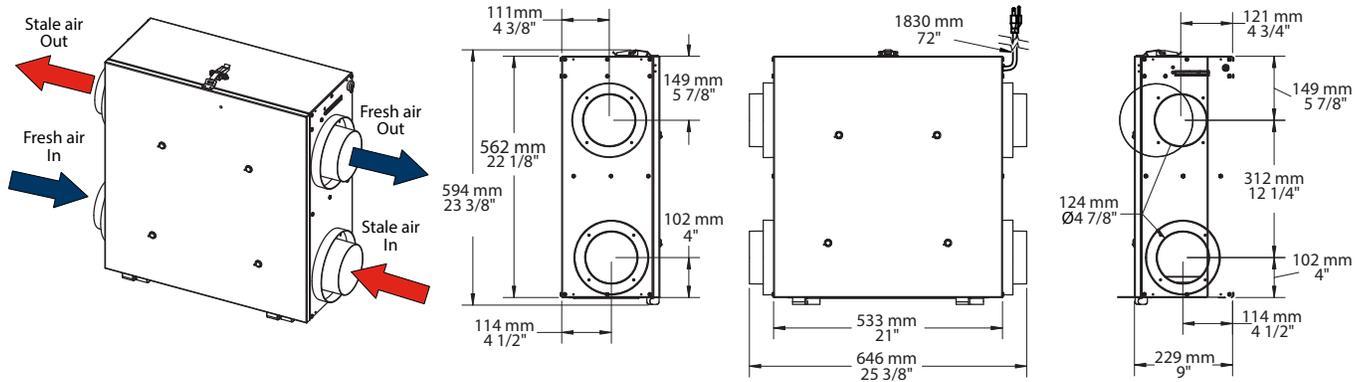• Motor 5-year. Other parts except filters and pre-filters 1-year.

### Application
• The ideal solution for high-rise apartments and medium-size homes, when regulations do not require unit certification at -25°C (-13 °F).
• Purifies the air by expelling many pollutants, dust, and allergens to the outside, while ensuring an equivalent supply of fresh air in the home.
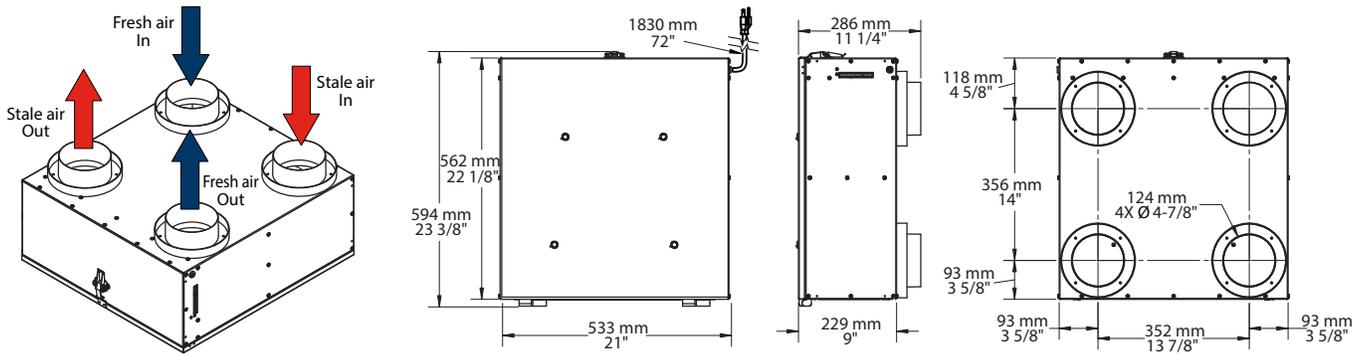
### Important note
• No controls are included with the purchase of an ERV or HRV. SA-LT15 and SA-LCD15 controls must be purchased separate
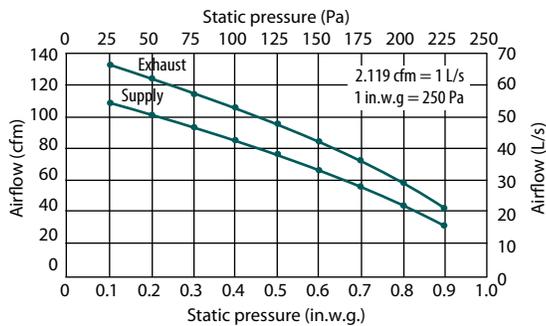
# ISALE150

## Side Port Model



## Top Port Model



## ERV ISALE150 - Curves at highest speed



2.119 cfm = 1 L/s
1 in.w.g = 250 Pa

## Energy ratings - HVI certified

| Supply temperature | | Air flow | | Power | Sensible recovery (SRE)[1] | Adjusted Sensible Recovery | Latent recovery / moisture transfer |
|---|---|---|---|---|---|---|---|
| °C | °F | cfm | L/s | W | % | % | % |
| **Heating** | | | | | | | |
| 0 | 32 | 53 | 25 | 54 | 60 | 67 | 51 |
| 0 | 32 | 64 | 30 | 62 | 63 | 69 | 49 |
| 0 | 32 | 104 | 49 | 96 | 59 | 64 | 40 |
| **Cooling** | | | | | Total recovery efficiency | Adjusted total recovery efficiency | |
| 35 | 95 | 53 | 25 | 57 | 49 | 53 | 53 |

## Models

| Product # | cfm | Recirculation | SRE[1] 0 °C (32 °F) 30 L/s | SRE[1] -25 °C (-13 °F) 24 L/s | Port in. | Port mm | Volts | Hertz | Amp. | Weight lb | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ERV energy recovery ventilator 150 cfm Side Port** | | | | | | | | | | | |
| ISALE150S | 150 | No | 63% | No | 5 | 127 | 120 | 60 | 1 | 33 | 15 |
| **ERV energy recovery ventilator 150 cfm Top Port** | | | | | | | | | | | |
| ISALE150T | 150 | No | 63% | No | 5 | 127 | 120 | 60 | 1 | 33 | 15 |

[1] SRE: Sensible Recovery Effectiveness.

## Options

| Product # Kit | Product # Factory installed* | Description |
|---|---|---|
| - | -F | Foam only for ERV Top Port |
| - | -R | Reverse air flow |
| KIT-SA-FI-115 | - | Kit of 2 Merv8 filters for ERV 115R |
| SA-FI-M13 | - | Merv13 filter for ERV 115-115R-150 |
| SA-P5 | - | Steel mounting plate only for ERV 115-150 Top Port with foam |

*For factory installed options, add the option number to the product number.*

## Controls (sold separately)

| Product # | Description |
|---|---|
| SA-LCD15[2] | Digital Decora-style wall-mounted control/timer for residential ERV and HRV |
| SA-LT15[2] | Decora-style wall-mounted control/timer for residential ERV and HRV |

[2] Must be pruchased separately.