VER 150

Energy Recovery Ventilator

Product #: 463857

Fantech's, VER 150 is an Energy Recovery Ventilator designed for higher static pressure applications. The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The energy recovery core at the center of the unit transfers heat and moisture from incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

Features

- 6" (152mm) oval duct connections with integrated airflow measurement
- Compact design, only 23.75" (603 mm) wide
- Fans with backward curved blade
- ERV transfers both heat and humidity
- Anti-microbial material
- Withstands freezing
- Electrostatic filters (washable)
- Removable screw terminal for easy connection
- Easy Core Guide Channels For Removing Core
- Only weighs 39 lbs (17.85Kg)

Optional Controls

- ECO-Touch^{IAQ} – Programmable Touch Screen Wall Control
- ECO-Feel – Automatic IAQ Control
- EDF7 – Electronic multi-function dehumidistat
- EDF1 – Multi-function control
- RTS-W – Wireless 20/40/60 minute timer
- RTS5 – 20/40/60 minute over-ride
- RTS2 – 20 minute over-ride
- MDEH1 – Dehumidistat

Specifications

- Duct size – 6" (152 mm) oval
- Voltage/Phase – 120/1
- Power rated – 172 W
- Amp – 1.6 A
- Average airflow @ 0.4" P_S (100Pa) – 148 cfm (70 L/s)

Fans

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

Energy Recovery Core

Energy recovery core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. Core dimensions are 8.4" x 8.4" (213 x 213 mm) with a 15" (381 mm) depth.

Defrost

A preset frost prevention sequence is activated at an outdoor air temperature of 14°F (-10°C) and lower. During the frost prevention sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the frost prevention strategy. The unit then returns to normal operation and continues cycle.

Serviceability

Core, filters, fans, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 17" (432 mm) clearance.

Case

22 gauge galvanized steel cabinet with a pre-painted steel corrosion resistant door.

Insulation

Cabinet is fully insulated with 1" (25 mm) foil-face high density expanded polystyrene.

Filters

Two (2) washable electrostatic panel type air filters 8.5" (216mm) x 15" (380 mm) x 0.125" (3mm).

Controls

External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see controls)

Installation

Unit is typically hung by using installation kit supplied with unit. Mounting bolts provided on top four (4) corners of unit.

Warranty

5 years on energy recovery core, 7 year on motors, and 5 year on parts.

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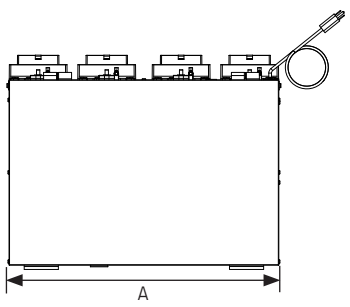
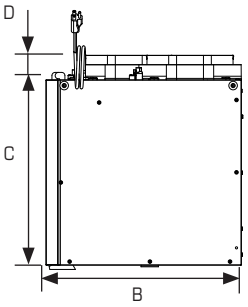
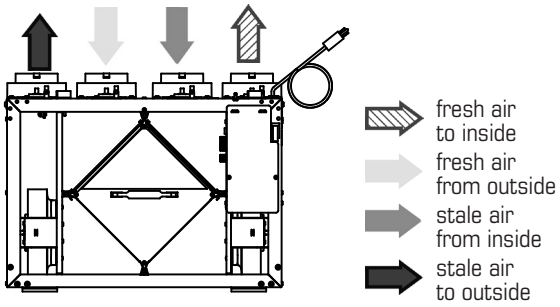
Dimensions & Airflow







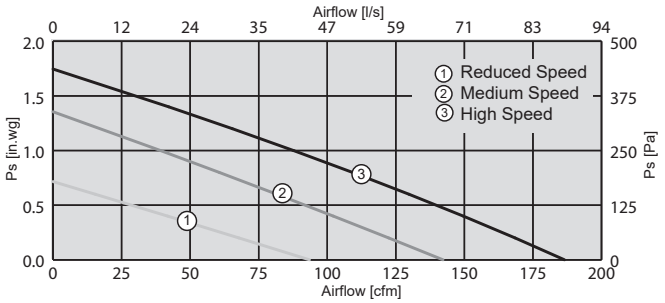
Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
VER 150	23 3/4	603	17 3/16	437	16 1/4	413	2 3/16	56

Clearance of 17" (432 mm) in front of the unit is recommended for removal of core. All units feature three foot plug-in power cord with 3-prong plug.

Ventilation Performance

in.wg. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)
	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)	cfm (L/s)
Net supply airflow	167 (78)	145 (68)	128 (60)	106 (50)	83 (39)
Gross supply airflow	170 (80)	148 (70)	130 (61)	108 (51)	85 (40)
Gross exhaust airflow	170 (80)	148 (70)	130 (61)	108 (51)	85 (40)

Only the data of the normal speed are HVI certified.
** - Balancing Range : 90 cfm (42 L/s) to 170 cfm (80 L/s)
- If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly sized unit is selected



Energy performance

	Speed	Supply temperature		Net airflow		Consumed Power	Net effectiveness		
							Sensible	Latent	Total
		°F	°C	cfm	L/s	W	%	%	%
Heating	Low	35	1.7	75	35	88	62	44	55
	Medium	35	1.7	115	54	120	59	41	53
	High	35	1.7	150	71	171	56	37	50
Cooling	Low	95	35	75	35	88	62	40	50
	Medium	95	35	115	54	120	59	37	46
	High	95	35	150	71	171	56	33	42

Requirements and standards

- Complies with the UL 1812 requirements regulating the construction and installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with the CSA F326 requirements regulating the installation of Heat Recovery Ventilators
- Technical data was obtained from published results of test relating to CSA C439 Standards

Contacts

Submitted by: Date:
Quantity: Model: Project #:
Comments:
Location:
Architect:
Engineer: Contractor:

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