

# SER 150

## Energy Recovery Ventilator

Product #: 99209



Fantech's, SER 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

- Compact design
- Fans with backward curved blade
- Electrostatic filters (washable)
- ERV transfers both heat and humidity
- Anti-microbial material
- Withstands freezing
- AHRI certified
- Removable screw terminal for easy connection
- Lightweight 46 lbs (20Kg)
- Multiple speed operation

### Optional Controls

- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- EDF1 (#40375) – Multi-function control
- RTS5 (#44794) – 20/40/60 minute over-ride
- RTS2 (#40164) – 20 minute over-ride
- MDEH1 (#40172) – Dehumidistat

### Specifications

- Duct size – 6" (152 mm)
- Voltage/Phase – 120/1
- Power rated – 171 W
- Amp – 1.4 A
- Average airflow – 145 cfm (68 L/s)  
@ 0.4" P<sub>s</sub> (100Pa)

### 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

AHRI certified 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 9" x 9" (229 x 229 mm) with a 15" (381 mm) depth.

### Defrost

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

### Serviceability

Core, filters, fans and drain pan can be easily accessed through latched door. Core conveniently slides out on our new easy glide core guides. 17" (432 mm) of clearance is recommended for removal of core.

### Case

24 gauge galvanized steel. Baked powder coated paint.

### Insulation

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

### Filters

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

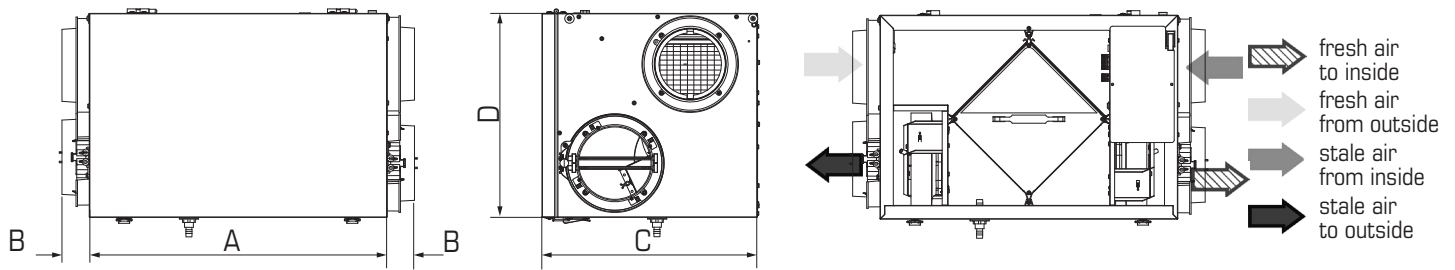
### Installation

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

### Warranty

5 year on core, 7 year on motors, and 5 year on parts.

## Dimensions & Airflow



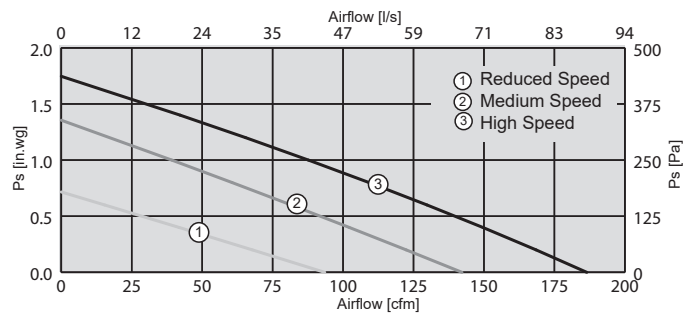
Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm

SER 150 23 3/4 604 2 1/8 55 17 1/4 438 16 1/4 414

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 (58)	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)



## Energy performance

	Speed	Supply temperature		Net airflow		Consumed Power W	Net effectiveness		
		°F	°C	cfm	L/s		Sensible	Latent	Total
							%	%	%
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
- Energy Recovery Core is ISO 846 certified for mold and bacteria resistance and AHRI certified (certificate #8931522)
- Technical data was obtained from published results of test relating to AHRI 1060 Standards

## Contacts

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

## Distributed by:

United States 10048 Industrial Blvd. • Lenexa, KS 66215 • 1.800.747.1762 • www.fantech.net

Canada 50 Kanalfakt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.net

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