

# SER 200

## Energy Recovery Ventilator

Product #: 463276



Fantech's, SER 200 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

- 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 52 lbs (23.75Kg)
- Multiple speed operation

### Optional Controls

- |                            |  |
|----------------------------|--|
| • ECO-Touch <sup>IAQ</sup> | – 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)      |
| • Voltage/Phase                 | – 120/1            |
| • Power rated                   | – 240 W            |
| • Amp                           | – 2.3 A            |
| • Average airflow               | – 187 cfm (88 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 12" x 12" (305 x 305 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. 22" (559 mm) of clearance is recommended for removal of core.

### Case

22 gauge galvanized pre-painted steel corrosion resistant.

### Insulation

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

### Filters

Two (2) washable electrostatic panel type air filters 11.75" (298mm) 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)

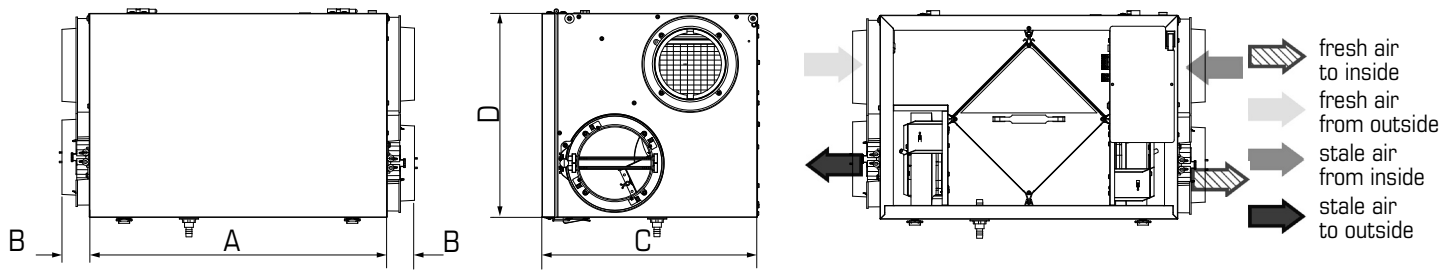
### Installation

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

## Dimensions & Airflow



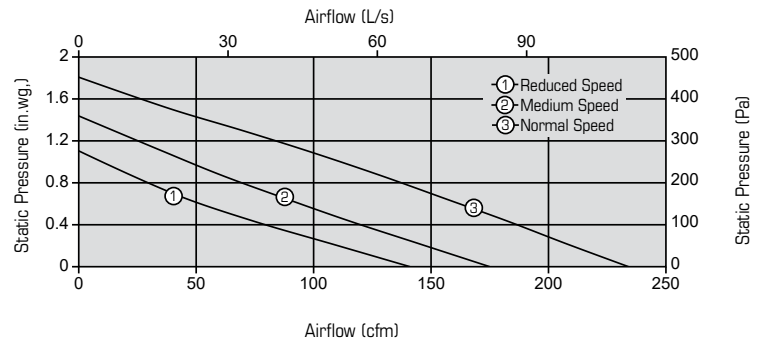
Model	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm

SER 200 28 710 2 1/8 55 17 1/4 438 20 1/2 522

Clearance of 22" (559 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	210 (99)	187 (88)	162 (76)	137 (65)	110 (52)
Gross supply airflow	214 (101)	189 (89)	164 (77)	139 (66)	112 (53)
Gross exhaust airflow	214 (101)	189 (89)	164 (77)	139 (66)	112 (53)



## Energy performance

	Speed	Supply temperature		Net airflow		Consumed Power	Net effectiveness		
		°F	°C	cfm	L/s		Sensible	Latent	Total
							%	%	%
Heating	Low	35	1.7	100	47	146	74	59	69
	Medium	35	1.7	150	71	200	70	52	63
	High	35	1.7	200	94	253	66	46	59
Cooling	Low	95	35	100	47	146	74	55	63
	Medium	95	35	150	71	200	70	48	56
	High	95	35	200	94	253	66	42	52

## 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:
Comments:	Project #:
Location:	
Architect:	
Engineer:	Contractor:

## Distributed by:

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