

SER 1504

Energy Recovery Ventilator

Product #: 40085



Fantech's side port connections ERV for house projects, the SER 1504 unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The enthalpic core at the center of the unit transfers heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner.

Features

- Simple yet sophisticated design makes these units the most reliable ERV on the market
- Enthalpy core
- Motors with backward incline propellers
- Steep fan curves
- No balancing required
- Weighs 49 lbs (22Kg)

Optional controls

- ECO-Touch™ (#44929) — Programmable Touch Screen Wall Control
- EDF7 (#44883) — Electronic multi-function dehumidistat
- EDF1 (#40375) — Multi-function control
- RTS3 (#40376) — 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 — 150 W @ high speed
- Amp — 1.5 A
- Average airflow — 134 cfm (63 L/s)
@ 0.4" P_s (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 23°F (-5°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, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 17" (432 mm) clearance.

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. In addition Fantech offers a variety of external controls. External dry contacts provided.

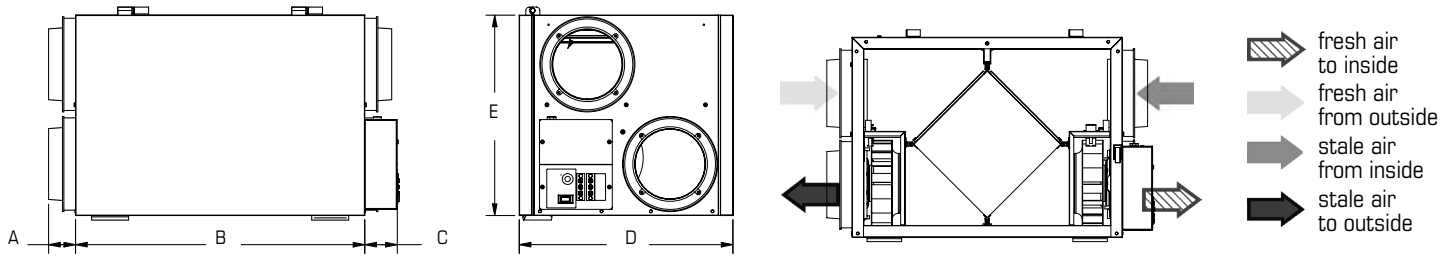
Warranty

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



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Dimensions & Airflow

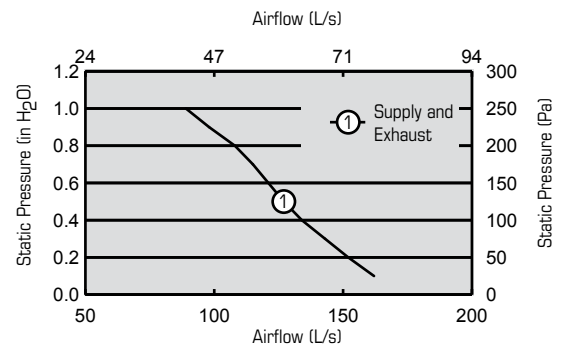


Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
SER1504	2 1/4	57	23 1/2	597	2 5/8	67	17 3/8	441	16 1/8	410

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	152 (72)	134 (63)	121 (57)	108 (51)	89 (42)
Gross supply airflow	152 (72)	134 (63)	121 (57)	108 (51)	89 (42)
Gross exhaust airflow	152 (72)	134 (63)	121 (57)	108 (51)	89 (42)



Energy performance

	Speed	Supply temperature		Net airflow		Consumed Power	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
- Technical data was obtained from published results of test relating to CSA C439 Standards
- 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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