SER 2004N

Energy Recovery Ventilator

Product #: 40088

Fantech's larger residential, full-featured ERV for large house projects, the SER 2004N is designed for higher static pressure and higher airflow applications. The SER 2004N 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.

When it is warm and humid outside and the indoors are cooled and dehumidified already, the ERV pre-cools the fresh incoming air and transfers a portion of the incoming humidity into the exhaust air, reducing the ventilation load. Reduces the load on a home's air conditioner compared to other ventilation methods, to save on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

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 60 lbs (27Kg)

Accessories

- 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 – 1.9 A
- Average airflow @ 0.4" P_S (100Pa) – 155 cfm (63 L/s)

Motors

Two (2) factory-balanced motors with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation. Covered by a seven year warranty.

Energy Recovery Core

Semi-permeable energy recovery core configured for and efficient cross-flow ventilation. Core dimensions are 12" x 12" (305 x 305 mm) with a 14.25" (362 mm) depth. Our heat exchangers are designed and manufactured to withstand extreme temperature variations.

Serviceability

Core, filters, motors and drain pan can be easily serviced through latched access door located on front of the cabinet. Core conveniently slides out with ease on an improved railing system. 17" (432 mm) of clearance is recommended for removal of core.

Case

22 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 11.5" (292mm) 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

Limited lifetime on aluminum core, 7 year on motors, and 5 year on parts.

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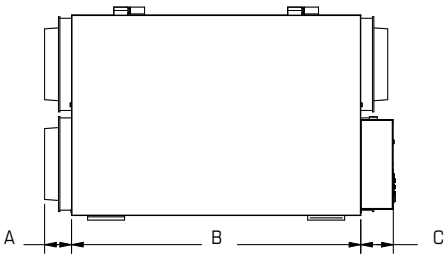
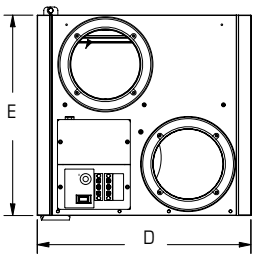
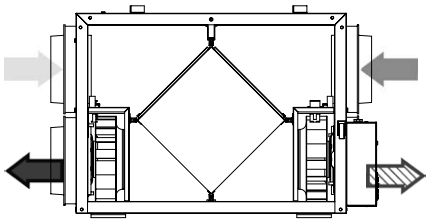
Dimensions & Airflow







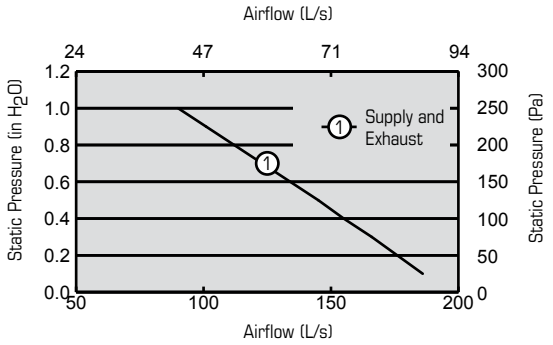
fresh air to inside
fresh air from outside
stale air from inside
stale air to outside

Model	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
SER2004N	2 1/4	57	27 7/8	708	2 5/8	67	17 3/8	441	20 1/8	521

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	173 (83)	155 (73)	134 (63)	112 (53)	90 (42)
Gross supply airflow	173 (83)	155 (73)	134 (63)	112 (53)	90 (42)
Gross exhaust airflow	173 (83)	155 (73)	134 (63)	112 (53)	90 (42)



Energy performance

Heating	Supply temperature		Net airflow		Consumed power	Sensible recovery efficiency	Apparent sensible effectiveness	Latent recovery/moisture transfer
	°F	°C	cfm	L/s	W	%	%	%
	32	0	64	30	62	81	52	78
	32	0	117	55	128	74	86	76
	32	0	161	76	194	70	84	71
Cooling	95	35	64	30	57	66[1]		
	95	35	117	55	130	60[1]		

[1] Total recovery efficiency.

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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