

SER 5504N

Light Commercial ERV

Product #: 40447-1



The SER series lowers demand on air conditioning systems. Air supplied from outdoors enters through the energy recovery core where it transfers the heat and moisture from the incoming air to the outgoing air that was cooled and dried by the building's air conditioner. The air brought into the working area is cooled and the humidity is reduced for maximum comfort. Reduces the load on an air conditioner to save on cooling costs. This unit is designed for warmer, humid climates with longer cooling seasons.

Feature

- Push-pull configuration
- External low voltage contacts
- No defrost
- Dual service doors & reversible electrical box
- External three position switch (Low/Standby/Medium)
- Weighs 168 lbs (76Kg)

Applications

- Class Room
- Offices
- Retail Shops
- Clinics
- Hair Salon
- Animal Shelters
- Bars & Restaurants
- Larger Homes

Specifications

- Voltage/Phase – 120/1
- Power rated – 660 W
- Amp – 5.5 A
- Average airflow – 533 cfm (252 L/s)
@ 0.4" P_s (100Pa)

Port configuration

The unit has access doors on the front and back. Also, the main control panel may be moved from front to back allowing for ducting layout.

Motors

Two (2) factory balanced motors with backward curved blades. Motors come with permanently lubricated sealed ball bearings and (TOP) thermal overload protected.

Energy recovery core

Two (2) modular energy recovery cores manufactured from a flame-proof/ Polyester-based synthetic paper designed to transfer sensible and latent heat. During winter, the core transfers heat and moisture from the outgoing air to the incoming fresh air. While in summer core transfers heat and moisture from the incoming air to the outgoing air to reduce the latent load.

Serviceability

Unit has hinged or screwed access panels on front and back of the unit. Cores, filters, motors and drain pan are serviceable from either side of the unit. Fan assemblies are mounted on removable sliding base. Energy recovery cores conveniently slide out with only 380mm (22.6") clearance for ease of inspection, removal and cleaning. Electrical box can be installed on either side of the unit for improved accessibility.

Case

20 gauge galvanized steel. Baked powder coated paint.

Insulation

Insulated with 1" (25 mm) foil-faced fiberglass insulation to prevent condensation.

Filters

Four (4) MERV1 washable filters that meet UL 900 rating to protect the exhaust and fresh air streams.

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.

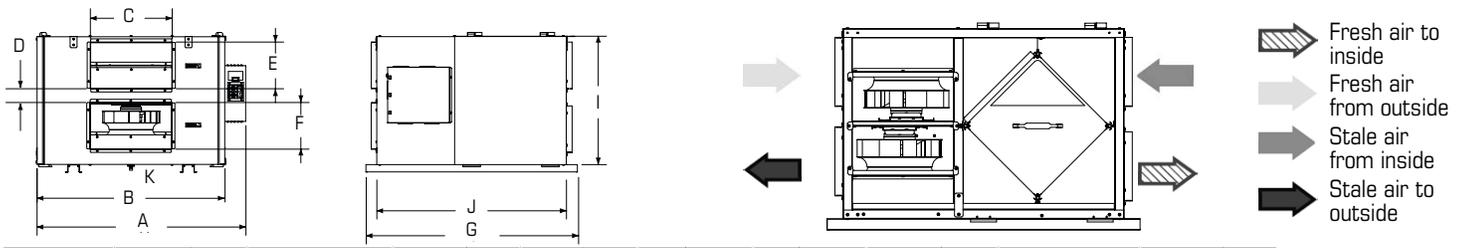
Mounting

Unit may be suspended by using threaded rod, not supplied, or placed on a platform.

Note:

This model is not recommended for climates that experience temperature below -5°C (23°F) for extended periods of 2 or more days.

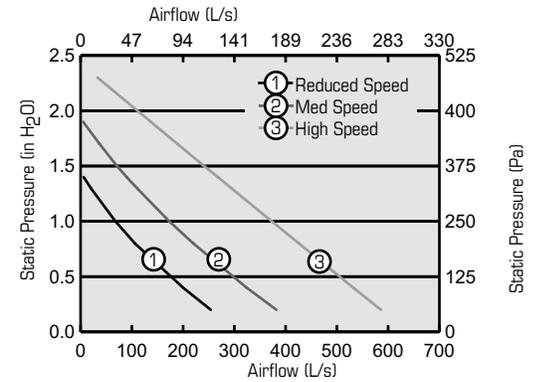
Dimensions & airflow



Model	A		B		C		D		E		F		G		I		J	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
SER5504N	36 1/3	923	35 1/5	818	14	356	2 2/5	61	8	203	8	203	36 1/3	923	22	559	32 1/2	826

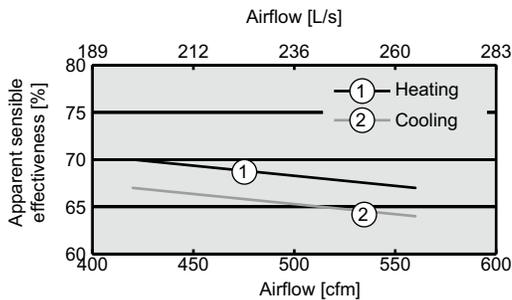
Ventilation Performance

in. wg. (Pa)	0.2 (50)	0.4 (100)	0.8 (200)	1.0 (250)	1.4 (350)	1.7 (425)
	cfm (L/s)					
Supply High	589 (227)	532 (251)	426 (201)	373 (176)	268 (126)	189 (89)
Supply Med	382 (180)	324 (153)	220 (104)	173 (82)	90 (42)	37 (17)
Supply Low	254 (120)	200 (94)	106 (50)	68 (32)		



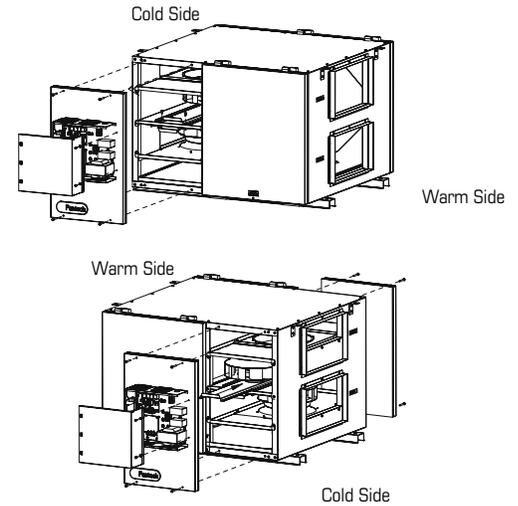
Energy performance

	Supply temperature		Net airflow		Apparent sensible effectiveness
	°F	°C	cfm	L/s	%
Heating	35	1.7	560	264	67
	35	1.7	420	198	70
Cooling	95	35	560	264	64
	95	35	420	198	67



Port configuration

Standard Configuration as shipped from factory



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
- 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:

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