



Fantech

Energy Recovery Ventilator

SER Series

SER 1504, SER 1504N, SER 2004,
SER 2004N, SER 3204D & SER3204N



FEATURES

- Simple Yet Sophisticated Design Makes These Units the Most Reliable HRVs on the Market
- Enthalpy Core
- EBM Motors with Backward Incline Propellers
- Steep Fan Curves for Superior Airflow Performance
- No Balancing Required
- Insulated with 1" (25mm) Foil-Faced High Density Polystyrene Foam
- No Drain Needed on SER 1504N, SER 2004N, SER 3204N

OPTIONAL CONTROLS

- EDF 1 – On/Off, Low, High Speed Operation and 20 min. On/40 min. Off Cycle Timer
- RTS 3 – Intermittent Bathroom Timer with Settings for 20/40/60 Minutes of High Speed Boost
- EDF 2 – Digital Multi-Function Control
- RTS 2 – 15 Minute Pushbutton Timer

Incoming fresh outdoor air is filtered then cooled and dehumidified by the stale outgoing air, as it passes through an enthalpy energy recovery core. The ERV then distributes the conditioned air throughout the home by direct ductwork installed specifically for the ERV or through the ductwork of a forced-air system.

SPECIFICATIONS

CASE 22 gauge galvanized steel on the SER 2004/2004N; 24 gauge galvanized steel on the SER 1504/1504N; 20 gauge galvanized steel on the SER 3204D/3204N. Baked powder coated paint, antique white. Insulated with foil-faced 1" (25 mm) high density polystyrene foam to prevent condensation and meet the requirements of the Underwriters Laboratories 94HF.

MOTORS German-manufactured, factory balanced ebm motors with backward curved blades and permanently lubricated sealed bearings. Engineered to run over 100,000 hours continuously. Motor warranty 7 years.

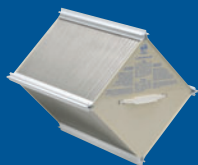
CORE Semi-permeable energy recovery cores configured for an efficient cross-flow ventilation. Manufactured to withstand extreme temperature variations. Core warranty 5 years.

FILTERS Washable Electrostatic Panel Type Air Filters.

CONTROLS External three (3) position (Low/Stand By/Medium) rocker switch that will offer continuous ventilation. Fantech offers a variety of external controls. (see optional controls) External dry contacts provided.

DEFROST The SER 1504, SER 2004 and SER 3204D have a built-in defrost mechanism that activates at 23°F (-5°C) in order to prevent the energy transfer core from freezing. They also include a condensate drain pan & spout.

SERVICEABILITY Core, filters, and motors can be easily serviced through latched access door. Electrical box, placed on the outside of the unit, can also be easily accessed.



Core: Energy Recovery Units feature a 5 year warranty on the enthalpy core.

Superior EBM Motors: Units are designed with German manufactured EBM external rotor motorized impellers – the most durable motors in the industry. Precise balancing ensures vibration-free operation. No maintenance needed. 7 Year Limited Warranty.



Washable Electrostatic Filters

Fully Insulated Cabinet:

Baked powder-coat finish. Insulated with 1" (25mm) foil-faced high density polystyrene foam.

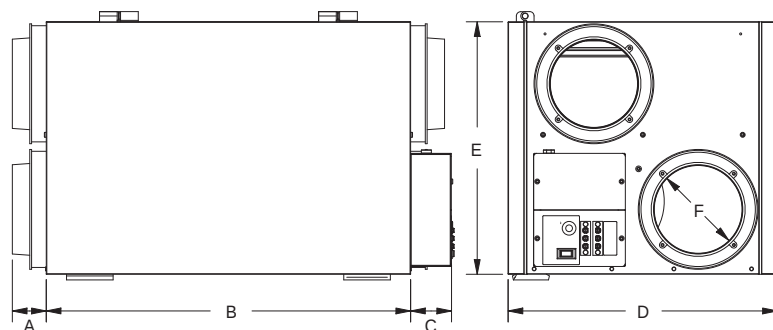
Electronic Control Board:

Units feature state-of-the-art control boards for easy connection to existing HVAC equipment. All units are designed for easy operation from a series of optional remote controls.

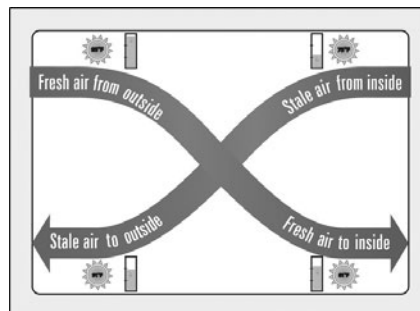
SER 1504, SER 1504N, SER 2004, SER 2004N, SER 3204D & SER 3204N

Energy Recovery Ventilators

Dimensions

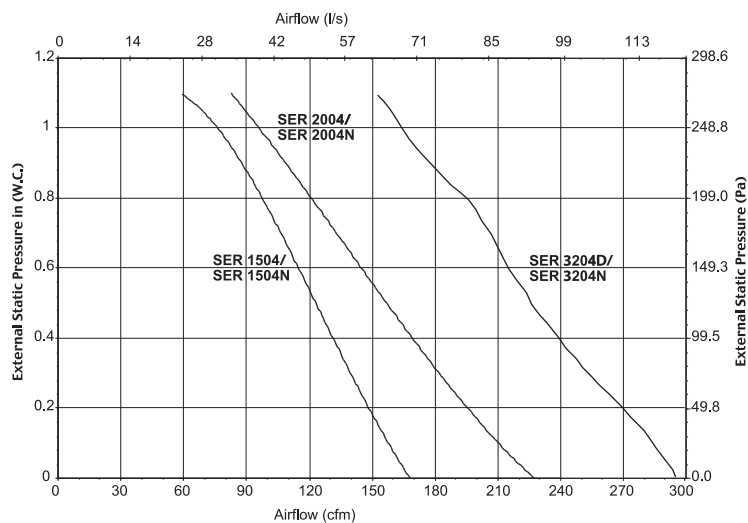


Airflow



Model	SER 1504/1504N	SER 2004/2004N	SER 3204D/3204N
A	2 Z\ v" (56mm)	2 Z\ v" (56mm)	2 Z\ v" (56mm)
B	23 Z\ x" (596mm)	27 M\ , " (707mm)	27 M\ , " (707mm)
C	2 B\ , " (67mm)	2 B\ , " (67mm)	3" (75mm)
D	17 C\ , " (441mm)	17 C\ , " (441mm)	25 C\ , " (645mm)
E	16 Z\ , " (413mm)	20 Z\ x" (520mm)	20 Z\ x" (520mm)
F	6" (152mm)	6" (152mm)	8" (203mm)

Fan Performance



Airflow shown at high speed.

Performance Data

Model	Total Recovery Efficiency (TRE) at 95°F (35°C)	Apparent Sensible Effectiveness (ASE) at 32°F (0°C)
SER 1504	45 %	76 %
SER 1504N	45 %	76 %
SER 2004	52 %	75 %
SER 2004N	52 %	75 %
SER 3204	54 %	76 %
SER 3204N	54 %	76 %

Power

- Volts 120 VAC
- Amperage
 - SER 1504/1504N 1.5 Amps
 - SER 2004/2004N 1.9 Amps
 - SER 3204/3204N 2.5 Amps
- Phase Single Phase



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



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