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.
SER 1504, SER 1504N, SER 2004, SER 2004N, SER 3204D & SER 3204N
Energy Recovery Ventilators

Dimensions

Airflow shown at high speed.

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

Performance Data

Fan Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>SER 1504/1504N</th>
<th>SER 2004/2004N</th>
<th>SER 3204D/3204N</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 2 ¼&quot; (56mm)</td>
<td>2 ½&quot; (56mm)</td>
<td>2 ½&quot; (56mm)</td>
<td></td>
</tr>
<tr>
<td>B 23 ¼&quot; (596mm)</td>
<td>27 ¼&quot; (707mm)</td>
<td>27 ¼&quot; (707mm)</td>
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<tr>
<td>C 2 B ¼&quot; (67mm)</td>
<td>2 B ¼&quot; (67mm)</td>
<td>3&quot; (75mm)</td>
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<tr>
<td>D 17 C ¼&quot; (441mm)</td>
<td>17 C ¼&quot; (441mm)</td>
<td>25 C ¼&quot; (645mm)</td>
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<tr>
<td>E 16 Z ¼&quot; (413mm)</td>
<td>20 Z ¼&quot; (520mm)</td>
<td>20 Z ¼&quot; (520mm)</td>
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<tr>
<td>F 6&quot; (152mm)</td>
<td>6&quot; (152mm)</td>
<td>8&quot; (203mm)</td>
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</table>

Fan Performance Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Total Recovery Efficiency (TRE) at 95°F (35°C)</th>
<th>Apparent Sensible Effectiveness (ASE) at 32°F (0°C)</th>
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</thead>
<tbody>
<tr>
<td>SER 1504</td>
<td>45 %</td>
<td>76 %</td>
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<tr>
<td>SER 1504N</td>
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<tr>
<td>SER 2004</td>
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<tr>
<td>SER 2004N</td>
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<td>75 %</td>
</tr>
<tr>
<td>SER 3204</td>
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<td>76 %</td>
</tr>
<tr>
<td>SER 3204N</td>
<td>54 %</td>
<td>76 %</td>
</tr>
</tbody>
</table>

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

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