ECHO E2800Xi
Commercial Energy Recovery Ventilator - Indoor Unit
Product #: 95750

The Commercial Energy Recovery Ventilation system (ERV) complements today’s tight buildings. Fantech’s ERVs are designed to supply air into a building while exhausting an equal amount of contaminated air to the outside.

Features
- 2800 cfm unit
- EC Fan motors
- Pre-Programmed controller
- Built-in Flow Measurement
- Electronic Flow Adjustment
- Available communication via Modbus and BACnet
- Dirty Filter Sensor
- Field reversible electrical box
- Dual service doors
- Push-pull configuration

Specifications
- Voltage  – 200 - 240V
- Phase  – 1~
- Current  – 12.2A
- Power rated, per motor – 1300W
- MCA  – 14A
- MOP  – 20A
- Operational Temperature – -25/40˚ C (-13/104˚ F)
- Weight  – 750 lbs (340 kg)

Fans
Two (2) electronically commutated motors. The EC fans operate at high efficiency levels and offer a great energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an AC motor of equivalent output. Reduced energy usage guarantees a drop in operating costs.

Energy recovery core
Three (3) modular AHRI certified energy recovery cores made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV cores are freeze tolerant and water washable. Cores dimensions are 23.6” x 23.6” (600 x 600 mm) with a 15.9” (380 mm) depth.

Defrost
The Energy Recovery ventilation system incorporate a standard supply fan shutdown defrost. An external recirculation defrost that does not depressurize the space during the defrost cycle is also available as an accessory.

Serviceability
Cores, filters and drain pan can be accessed easily from both sides of the unit from hinged and removable access doors. Cores conveniently slide out and blowers can be accessed from both side of the ERV from fastened access panels. Blowers are easily removable by taking off the access panel. A clearance of 44” (1120 mm) is required to service the unit.

Cabinet
Double wall construction with 22 gauge galvanized pre-painted steel corrosion resistant

Insulation
Insulated with 2 in. (50 mm) fiberglass with FSK facing for condensation control.

Controls
Factory installed and pre-programmed controller with remote display for monitoring and configuring the unit. Available communication via Modbus and BACnet.

Filters
The air streams are protected by a MERV 13 pleated filter on the supply air and a MERV 8 pleated filter on the exhaust air. Filter dimensions are 24” x 24” (610 mm x 610 mm)

Installation
Unit may be suspended by using threaded rod, not supplied, or placed on a platform. Unit shall be adaptable for easy service of electrical components.
Dimensions & airflow

<table>
<thead>
<tr>
<th>Model</th>
<th>A (in)</th>
<th>B (in)</th>
<th>C (in)</th>
<th>D (in)</th>
<th>Duct Dimensions</th>
<th>Drain K2</th>
</tr>
</thead>
<tbody>
<tr>
<td>E290Xi</td>
<td>52</td>
<td>1279</td>
<td>70</td>
<td>1865</td>
<td>14 x 34</td>
<td>3/4 19</td>
</tr>
</tbody>
</table>

Ventilation Performance

<table>
<thead>
<tr>
<th>Static Pressure (Pa)</th>
<th>Airflow @ 0.4 in.wg. (cfm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 (50)</td>
<td>0 500 1000 1500 2000 2500 3000 3500</td>
</tr>
<tr>
<td>0.4 (100)</td>
<td>350 750 1000 1500 2000 2500 3000 3500</td>
</tr>
<tr>
<td>0.8 (200)</td>
<td>250 500 750 1000 1500 2000 2500 3000 3500</td>
</tr>
</tbody>
</table>

Energy performance

<table>
<thead>
<tr>
<th>Airflow (cfm)</th>
<th>Heating – 35°F (1.7°C) - Effectiveness</th>
<th>Cooling – 95°F (35°C) - Effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensible</td>
<td>Latent</td>
<td>Total</td>
</tr>
<tr>
<td>2400</td>
<td>67</td>
<td>45</td>
</tr>
<tr>
<td>2250</td>
<td>67</td>
<td>46</td>
</tr>
<tr>
<td>1900</td>
<td>69</td>
<td>50</td>
</tr>
<tr>
<td>1600</td>
<td>70</td>
<td>52</td>
</tr>
</tbody>
</table>

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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