Fantech’s, VER 100 is an Energy Recovery Ventilator designed for higher static pressure applications. The unit brings a continuous supply of fresh air into a home while exhausting an equal amount of contaminated air. The energy recovery core at the center of the unit transfers heat and moisture from incoming air to the outgoing air that was cooled and dried by the building’s air conditioner.

Features
- 5” (125mm) oval duct connections with integrated airflow measurement
- Compact design, only 21.5” (546 mm) wide
- Fans with backward curved blade
- ERV transfers both heat and humidity
- Anti-microbial material
- Withstands freezing
- AHRI certified
- Electrostatic filters (washable)
- Removable screw terminal for easy connection
- Easy Core Guide Channels For Removing Core
- Only weighs 32 lbs (14.5Kg)

Optional Controls
- ECO-Touch™ (#44929) – Programmable Touch Screen Wall Control
- EDF7 (#44883) – Electronic multi-function dehumidistat
- EDF1 (#40275) – Multi-function control
- RTS5 (#44734) – 20/40/60 minute over-ride
- RTS2 (#40164) – 20 minute over-ride
- MDEH1 (#40172) – Dehumidistat

Specifications
- Duct size – 5” (1252 mm) oval
- Voltage/Phase – 120/1
- Power rated – 168 W
- Amp – 1.4 A
- Average airflow – 124 cfm (59 L/s)
  @ 0.4” P_s (100Pa)

Fans
Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

Energy Recovery Core
AHRI certified core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. Core dimensions are 8.4 x 8.4" (213 x 213 mm) with a 15” (381 mm) depth.

Defrost
A preset frost prevention sequence is activated at an outdoor air temperature of 14°F (-10°C) and lower. During the frost prevention sequence, the supply blower shuts down and the exhaust blower switches into high speed to maximize the effectiveness of the frost prevention strategy. The unit then returns to normal operation and continues cycle.

Serviceability
Core, filters, fans, drain pan and electrical panel can be accessed easily from the access panel. Core conveniently slides out with only 14” (432 mm) clearance.

Case
24 gauge galvanized steel. Baked powder coated paint.

Insulation
Cabinet is fully insulated with 1” (25 mm) foil-face high density expanded polystyrene.

Filters
Two (2) washable electrostatic panel type air filters 8.5” (216mm) x 12.5” (318 mm) x 0.125” (3mm).

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

Installation
Unit is typically hung by using installation kit supplied with unit. Mounting bolts provided on top four (4) corners of unit.

Warranty
5 years on energy recovery core, 7 year on motors, and 5 year on parts.
Ventilation Performance

<table>
<thead>
<tr>
<th>in.wg. (Pa)</th>
<th>0.2 (50)</th>
<th>0.4 (100)</th>
<th>0.6 (150)</th>
<th>0.8 (200)</th>
<th>1.0 (250)</th>
</tr>
</thead>
<tbody>
<tr>
<td>cfm (L/s)</td>
<td>cfm (L/s)</td>
<td>cfm (L/s)</td>
<td>cfm (L/s)</td>
<td>cfm (L/s)</td>
<td></td>
</tr>
<tr>
<td>Net supply airflow</td>
<td>138 (65)</td>
<td>122 (58)</td>
<td>104 (49)</td>
<td>85 (40)</td>
<td>66 (31)</td>
</tr>
<tr>
<td>Gross supply airflow</td>
<td>141 (67)</td>
<td>124 (59)</td>
<td>106 (50)</td>
<td>87 (41)</td>
<td>67 (32)</td>
</tr>
<tr>
<td>Gross exhaust airflow</td>
<td>141 (67)</td>
<td>124 (59)</td>
<td>106 (50)</td>
<td>87 (41)</td>
<td>67 (32)</td>
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</tbody>
</table>

Energy performance

<table>
<thead>
<tr>
<th>Speed</th>
<th>Supply temperature</th>
<th>Net airflow</th>
<th>Consumed Power</th>
<th>Net effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>°F</td>
<td>°C</td>
<td>cfm</td>
<td>L/s</td>
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<tr>
<td>Heating</td>
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<td>1.7</td>
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<td>1.7</td>
<td>75</td>
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<tr>
<td></td>
<td>High</td>
<td>35</td>
<td>1.7</td>
<td>100</td>
</tr>
<tr>
<td>Cooling</td>
<td>Low</td>
<td>95</td>
<td>35</td>
<td>50</td>
</tr>
<tr>
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<tr>
<td></td>
<td>High</td>
<td>95</td>
<td>35</td>
<td>100</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
- 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
- Energy Recovery Core is ISO 846 certified for mold and bacteria resistance and AHRI certified (certificate #8931522)
- Technical data was obtained from published results of test relating to AHRI 1060 Standards

Contacts

Submitted by: [Name]
Date: [Date]
Quantity: [Quantity]
Model: [Model]
Project #: [Project #]
Comments: [Comments]
Location: [Location]
Architect: [Architect]
Engineer: [Engineer]
Contractor: [Contractor]

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