Model FC150ERV
Energy Recovery Ventilator
30 CFM (14 L/s) to 160 CFM (76 L/s)
Part No. 60510007160

FEATURES
- 3 operating modes (Intermittent, Continuous & High)
- 100% variable speed
- ISF™ 6” (152.5 mm) dia. collar system
- Proportional defrost sequence
- SPM™ Single Person Mounting system
- Permanent lubrication of PSC motors

APPLICABLE REQUIREMENTS
- HVI Certified
- CSA C439 Standard - Packaged Heat/Energy Recovery Ventilators (HRV/ERV)
- CSA Standard CSA 22.2 N.113-10 - Fans and ventilators
- UL Standard 1812 2nd Ed. Ducted Heat/Energy Recovery Ventilators (HRV/ERV)

OPTIONAL ACCESSORIES
- MERV 8 Inline 6” (152.5 mm) filter box
- R-2 Style high performance supply & exhaust ventilation hoods

CABINET
- 20 gauge galvanized pre-painted steel corrosion resistant
- Cabinet liner: Molded Expanded Polystyrene (EPS) Rated UL94 HF-1

ELECTRONIC COMPONENTS
- Electrical Input Voltage: 120 VAC/60Hz / 1-Phase.
- Electrical Input Current: 1.5 Amps Max
- Circuit output voltage: 5VDC nominal
- Integrated auxiliary furnace interlock relay
- RoHs compliant

MOTORS
- Two permanent sealed, lubricated variable speed PSC Motors. (Maintenance free)
- Maximum RPM 2695 / Horsepower; 3/32 HP. Class F, thermally protected
- CSA 22.2 #113-10, clause 8.3.5 – Backup protection – totally enclosed motor

dpoint ERV CORE
- Dimensions 12”x 12”x 10” depth (304.8 mm x 304.8 mm x 254 mm)
- Corrugated aluminum layers combined with advanced polymer membrane. Recognized UL94 HB
- Cross-flow that transfers both sensible & latent heat
- Endure harsh temperatures; effective in warm and cold climates
- Water washable
- Meets ASHRAE 90.1

DUOTROL™ BALANCING SYSTEM
- The system is balanced by adjusting each motor independently
- No balancing dampers required
- Connection terminals for optional wall controls
- Quiet and energy efficient

DEFROST
- Advanced Proportional supply fan shut down defrost sequence
- Defrost type: Evacuation Activated automatically at -5°C (23°F)

DUCT CONNECTIONS
- Insert Slide & Fix (ISF™), removable collars system
- Four (4) 6” (152.5 mm) dia. round double collar.

MOUNTING
- Adjustable mounting strap system

FILTERS
- Two (2) Fiberbond washable - 11 11⁄16”x 9 3⁄4”x 5⁄8” (297 mm x 248 mm x 15.9 mm)
- UL Class 2

WARRANTY
- 5 year limited warranty
- Visit fieldcontrols.com/warranty for complete warranty statement

AIRFLOW

Field Controls LLC reserves the right to modify a product, without prior notice, whether in design, color or specifications, in order to offer at all times a quality product that is highly competitive. Please consult your national and local building codes to find out whether the installation of electrical products requires the services of a certified technician or electrician. Field Controls and Healthy Home System™ are registered Trademarks used under license by Field Controls LLC. All rights reserved.
**ENGINEERING DATA FC150ERV**

### SPECIFICATIONS

**Dimensions**
29½" x 22½" x 11½"
(749.3 mm x 571.5 mm x 289 mm)

**Duct Connections**
Four (4) 6" (152.5 mm) dia.
ISF double collar system

**Airflow Rates**
30 CFM (14 L/s) to 160 CFM (76 L/s)

**Motor**
Two (2) PSC variable speed backward curved

**Voltage**
120 VAC @ 60 Hz / 1 Phase

**Amperage**
1.5 A / 142 watts

**Type of heat exchanger**
dpoint cross-flow
(Enthalpic Polymer Membrane)

**Exchange surface**
85 ft² (7.9 m²)

**Defrost type**
Evacuation

**Filters**
Two (2) Fiberbond washable

**Duct Connections**
1½" (12.7 mm)

**DuoTrol**
Integrated Balancing System

**Actual Weight**
42 lbs (19 Kg)

**Shipping Weight**
47.5 lbs (21.5 Kg)

**Certification**
HVI, cCSAUS, CSA 22.2 N0.113
Complies with UL 1812

### OPTIONAL WALL CONTROLS

- **Mechanical**
  - RD1 Part # 60510010030
  - RD4P Part # 60510010031

- **Timers**
  - T3 Part # 60510010050
(20, 40, 60 minutes)

### WALL CONTROL DIMENSIONS

#### Mechanical

- 2.75" (69.9 mm)
- 1.26" (32 mm)
- 2.64" (67 mm)
- 4.50" (114 mm)

#### T3 Timer

- 0.62" (15.75 mm)

### MINIMUM CLEARANCE DATA

#### Front View
- Minimum plug clearance
- Minimum clearance for drain fitting
- Reommended minimum clearance for “P” trap of 10” (254 mm)

#### Top View
- Minimum door clearance

### VENTILATION PERFORMANCE

<table>
<thead>
<tr>
<th>Pressure</th>
<th>External Static Net Supply Gross Air Flow Gross Air Flow</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pa</td>
<td>in. wg</td>
<td>L/s</td>
<td>CFM</td>
</tr>
<tr>
<td>25</td>
<td>0.1</td>
<td>97</td>
<td>207</td>
</tr>
<tr>
<td>50</td>
<td>0.2</td>
<td>89</td>
<td>189</td>
</tr>
<tr>
<td>75</td>
<td>0.3</td>
<td>88</td>
<td>187</td>
</tr>
<tr>
<td>100</td>
<td>0.4</td>
<td>75</td>
<td>159</td>
</tr>
<tr>
<td>125</td>
<td>0.5</td>
<td>70</td>
<td>148</td>
</tr>
<tr>
<td>150</td>
<td>0.6</td>
<td>62</td>
<td>131</td>
</tr>
<tr>
<td>175</td>
<td>0.7</td>
<td>55</td>
<td>116</td>
</tr>
</tbody>
</table>

### ENERGY PERFORMANCE


<table>
<thead>
<tr>
<th>°C</th>
<th>°F</th>
<th>L/s</th>
<th>CFM</th>
<th>Watts</th>
<th>Efficiency</th>
<th>Effectiveness</th>
<th>Moisture Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>32</td>
<td>24</td>
<td>51</td>
<td>58</td>
<td>65</td>
<td>76</td>
<td>0.32</td>
</tr>
<tr>
<td>0</td>
<td>32</td>
<td>38</td>
<td>80</td>
<td>76</td>
<td>65</td>
<td>73</td>
<td>0.29</td>
</tr>
<tr>
<td>0</td>
<td>32</td>
<td>56</td>
<td>118</td>
<td>96</td>
<td>62</td>
<td>70</td>
<td>0.26</td>
</tr>
<tr>
<td>-15</td>
<td>5</td>
<td>26</td>
<td>55</td>
<td>59</td>
<td>52</td>
<td>78</td>
<td>0.26</td>
</tr>
</tbody>
</table>

Total recovery

#### HEATING

35  95  30  64  66  —  34

#### COOLING

- Total recovery
- Efficiency

<table>
<thead>
<tr>
<th>Quoted by:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project:</td>
<td>Remarks:</td>
</tr>
<tr>
<td>Quantity:</td>
<td></td>
</tr>
<tr>
<td>Model:</td>
<td></td>
</tr>
<tr>
<td>Site:</td>
<td></td>
</tr>
<tr>
<td>Architect:</td>
<td></td>
</tr>
<tr>
<td>Engineer:</td>
<td></td>
</tr>
<tr>
<td>Contractor:</td>
<td></td>
</tr>
</tbody>
</table>