Model FC80ERV
Energy Recovery Ventilator
30 CFM (14 L/s) to 100 CFM (47 L/s)
Part No. 60510005095

FEATURES
• 3 operating modes (Intermittent, Continuous & High)
• 100% variable speed
• ISF™ 5" (127 mm) oval collar system
• Proportional defrost sequence
• Single person mounting system via wall bracket
• 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
• Matrix 2 in 1 high performance concentric ventilation hood
• 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: 0.85 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 3135 / Horsepower; 1/11 HP.
  Class F, thermally protected
• CSA 22.2 #113-10, clause 8.3.5
  – Backup protection – totally enclosed motor

dpoint ERV CORE
• Dimensions 10"x 10"x 9" depth
  (254 mm x 254 mm x 228.6 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: Evaporation
  Activated automatically at -5°C (23°F)

DUCT CONNECTIONS
• Insert Slide & Fix (ISF™), removable collars system
• Four (4) 5" (127 mm) oval double collar
• Intergrated balancing pressure taps

MOUNTING
• Wall mount bracket included

FILTERS
• Two (2) Fiberbond washable - 9"x 10"x 5/8"
  (228.6 mm x 254 mm x 15.9 mm)
• UL Class 2

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

AIRFLOW
Top View

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**ENGINEERING DATA FC80ERV**

### SPECIFICATIONS

**FC80ERV**

**Dimensions**: 22” x 19 1/2” x 14 1/8” (558.8 mm x 502.9 mm x 370.8 mm)

**Duct Connections**: Four (4) 5” (127 mm) oval ISF double collar system

**Airflow Rates**: 30 CFM (14 L/s) to 100 CFM (47 L/s)

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

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

**Amperage**: 0.85 A / 66 watts

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

**Exchange surface**: 56.7 ft² (5.27 m²)

**Defrost type**: Evacuation

**Filters**: Two (2) Fiberbond washable

**Drain Connection**: 1/2” (12.7 mm)

**DuoTrol**: Integrated Balancing System

**Actual Weight**: 32.5 lbs (14.7 Kg)

**Shipping Weight**: 40 lbs (18.1 Kg)

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

### OPTIONAL WALL CONTROLS

**Mechanical**: RD1 Part # 60510010030

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

### WALL CONTROL DIMENSIONS

**Mechanical**

**T3 Timer**

### VENTILATION PERFORMANCE

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<th>External Static Pressure</th>
<th>Net Supply Air Flow</th>
<th>Gross Air Flow</th>
<th>Gross Air Flow</th>
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<td>Pa</td>
<td>in. wg</td>
<td>L/s</td>
<td>CFM</td>
</tr>
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### ENERGY PERFORMANCE

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<td>°F</td>
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<td>Watts</td>
<td>Efficiency</td>
<td>Effectiveness</td>
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<td>16</td>
<td>35</td>
<td>27</td>
<td>54</td>
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</table>

**Total recovery**: Efficiency

**35 | 95 | 19 | 41 | 30 | — | 43**

Quoted by: 
Date: 
Project: 
Remarks: 
Quantity: 
Model: 
Site: 
Architect: 
Engineer: 
Contractor: