**Model FC80HRV**

**Heat Recovery Ventilator**

30 CFM (14 L/s) to 100 CFM (47 L/s)

Part No. 60510004095

---

**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

---

**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

**POLYPROPYLENE HRV CORE**

- Dimensions 10”x 10”x 9” depth
  (254 mm x 254 mm x 228.6 mm)
- Corrugated cross-flow polypropylene layers,
  rated UL94 HB & HF-1
- Cross-flow that transfers sensible heat
- Endure harsh temperatures; effective in cold climates
- Water washable

**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) 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 ⅜”
  (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

---

**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
## Specifications FC80HRV

### Dimensions
- 22" x 19 11/16" x 14 1/16" (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
- Cross-flow Polypropylene

### Exchange surface
- 63.5 ft² (5.9 m²)

### Defrost type
- Evacuation

### Filters
- Two (2) Fiberbond washable

### Drain Connection
- 1/2" (12.7 mm)

### DuoTrol
- Integrated Balancing System

### Actual Weight
- 33.5 lbs (15.2 Kg)

### Shipping Weight
- 41 lbs (18.6 Kg)

### Certification
- HVL, 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

#### T3 Timer

## Dimensions Data

### Front View
- 9.8" (247.9 mm)
- 1.1" (27.9 mm)
- 5" oval (127 mm)
- 14.6" (371 mm)
- 12" (305 mm)
- 15" (381 mm)
- 2" (50.8 mm)
- 3" (76.2 mm)
- 2" (50.8 mm)

### Top View
- 17.1" (448.8 mm)
- 1.1" (28.5 mm)
- 20" (507 mm)
- 2.1" (52.5 mm)

### Minimum Clearance Data

#### Front View
- Minimum clearance for balancing
  - Ceiling: 15" (381 mm)
  - Wall: 2" (50.8 mm)
- Minimum clearance for drain fitting
- Recommended minimum clearance for "P" trap of 10" (254 mm)

#### Top View
- Minimum door clearance
  - 12" (305 mm)

## Ventilation Performance

### External Static Pressure
<table>
<thead>
<tr>
<th>Pressure (Pa)</th>
<th>Supply Net Supply</th>
<th>Gross Air Flow Supply</th>
<th>Gross Air Flow Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>47</td>
<td>99</td>
<td>48</td>
</tr>
<tr>
<td>50</td>
<td>44</td>
<td>93</td>
<td>45</td>
</tr>
<tr>
<td>75</td>
<td>39</td>
<td>83</td>
<td>40</td>
</tr>
<tr>
<td>100</td>
<td>35</td>
<td>75</td>
<td>35</td>
</tr>
<tr>
<td>125</td>
<td>30</td>
<td>65</td>
<td>30</td>
</tr>
<tr>
<td>150</td>
<td>27</td>
<td>56</td>
<td>27</td>
</tr>
<tr>
<td>175</td>
<td>22</td>
<td>46</td>
<td>22</td>
</tr>
</tbody>
</table>

### Energy Performance

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>32</td>
<td>19</td>
<td>40</td>
<td>28</td>
</tr>
<tr>
<td>0</td>
<td>32</td>
<td>30</td>
<td>65</td>
<td>40</td>
</tr>
<tr>
<td>-25</td>
<td>-13</td>
<td>18</td>
<td>37</td>
<td>30</td>
</tr>
</tbody>
</table>

## Energy Performance

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