Model FC200ERV
Energy Recovery Ventilator
70 CFM (33 L/s) to 220 CFM (104 L/s)
Part No. 60510007200

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

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

ERV CORE
- Dimensions 12”x 12”x 15” depth
  (304.8 mm x 304.8 mm x 381 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

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 14 3/4”x 5/8”
  (297 mm x 375 mm x 15.9 mm)
- UL Class 2

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

AIRFLOW
- 70 CFM (33 L/s) to 220 CFM (104 L/s)
- Part No. 60510007200

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

Field Controls
2630 Airport Road
Kinston, NC  28504
Customer Service: 252 522-3031
Fax: 1 (800) 367-7942
Visit us at: www.fieldcontrols.com
**SPECIFICATIONS**

**FC200ERV**

- **Dimensions**: 29 1/2” x 22 1/2” x 16 1/2” (749.3 mm x 571.5 mm x 419.1 mm)
- **Duct Connections**: Four (4) 6” (152.5 mm) dia. ISF double collar system
- **Airflow Rates**: 70 CFM (33 L/s) to 220 CFM (104 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
- **Exchange surface**: 127 ft² (11.8 m²)
- **Defrost type**: Evacuation
- **Filters**: Two (2) Fiberbond washable
- **Duct Connections**: 3/4” (12.7 mm)
- **DuoTrol**: Integrated Balancing System
- **Actual Weight**: 50 lbs (22.7 Kg)
- **Shipping Weight**: 57.5 lbs (26.1 Kg)
- **Certification**: HVI, cCSAus, CSA 22.2 N.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**

- 21.6” (547.9 mm)
- 6” (152.5 mm)
- 23.9” (606.3 mm)
- 2.8” (72.4 mm)
- 5” (126 mm)

**Top View**

- 16.2” (412 mm)
- 8.2” (207.8 mm)

**MINIMUM CLEARANCE DATA**

**Front View**

- Minimum plug clearance
- Minimum clearance for drain fitting
- Recommended minimum clearance for “P” trap of 10” (254 mm)

**Top View**

- Minimum door clearance
- 17” (431.8 mm)

**VEHILATION PERFORMANCE**

<table>
<thead>
<tr>
<th>External Static Pressure (Pa)</th>
<th>Supply (L/s)</th>
<th>CFM</th>
<th>Exhaust (L/s)</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>0.1</td>
<td>115</td>
<td>244</td>
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</tr>
<tr>
<td>50</td>
<td>0.2</td>
<td>106</td>
<td>225</td>
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<td>75</td>
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<td>98</td>
<td>208</td>
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<tr>
<td>100</td>
<td>0.4</td>
<td>88</td>
<td>188</td>
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<tr>
<td>125</td>
<td>0.5</td>
<td>81</td>
<td>173</td>
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</tr>
<tr>
<td>150</td>
<td>0.6</td>
<td>71</td>
<td>150</td>
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<td>175</td>
<td>0.7</td>
<td>65</td>
<td>139</td>
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**ENERGY PERFORMANCE**

<table>
<thead>
<tr>
<th>Supply Temperature (°C)</th>
<th>Net Air Flow (L/s)</th>
<th>Power Consumed (Watts)</th>
<th>Sensible Recovery (%)</th>
<th>Apparent Sensible Recovery (%)</th>
<th>Latent Recovery (%)</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>32</td>
<td>37</td>
<td>74</td>
<td>71</td>
<td>81</td>
</tr>
<tr>
<td>-15</td>
<td>32</td>
<td>71</td>
<td>150</td>
<td>102</td>
<td>69</td>
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<tr>
<td>35</td>
<td>95</td>
<td>35</td>
<td>75</td>
<td>72</td>
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**HEATING**

**COOLING**

<table>
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<th>Total recovery Efficiency</th>
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</thead>
<tbody>
<tr>
<td>48</td>
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**NOTE:**

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