ReFresh RF10-160AC-P-ES24V

Specifications

• ES24V – Envirosense Ventilation Control mounted to outside of unit
• Galvanized, 26 ga., insulated housing
• 6” round duct connectors
• Integral backdraft damper
• Test port for easy air flow measurement
• 2” wide filter slot for optional 10 x 10 x 2” filters
• Integral mounting tabs allow mounting in any orientation
• Backward inclined wheel
• Speed controllable, AC motor, 120V, 60 Hz
• 4 pole, permanently lubricated, thermally protected motor
• Internally mounted rotary speed control to set required intake with high, medium and low set points
• Inlet guard for motor protection
• AMCA Air and Sound Licensed
• HVI Certified performance with and without optional MERV13 Filters
• cULus 507 Listed
• UL 2043 - Suitable for Use In Air Handling Spaces

Options and Accessories

• 10 x 10 x 2” MERV8 or MERV13 filters
• Steel backdraft dampers
• Motorized backdraft damper
• Duct heater

AMCA Performance

RF10-160AC, No Filter

RF10-160AC, MERV 13 Filter

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160AC-P-ES24V_03022022
ReFresh RF10-160AC-P-ES24V
Submittal

HVI Certified Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed Setting</th>
<th>Speed (RPM)</th>
<th>CFM @ Static Pressure (inches w.g.)</th>
<th>Sones @ .2” SP</th>
<th>Amps @ .2” SP</th>
<th>Watts @ .2” SP</th>
<th>Efficacy (CFM/Watts) @ .2” SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1,484</td>
<td>84 66 58 50 41 33 18 10</td>
<td>0.49</td>
<td>40.4</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1,864</td>
<td>140 121 110 100 91 84 68 52</td>
<td>0.56</td>
<td>53.7</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2,549</td>
<td>214 196 188 180 172 164 149 135</td>
<td>0.6</td>
<td>72.2</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1,581</td>
<td>62 50 45 40 35 28 16 7</td>
<td>0.5</td>
<td>40.8</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>1,895</td>
<td>118 103 97 90 84 78 67 52</td>
<td>0.56</td>
<td>53.6</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2,510</td>
<td>174 162 156 150 144 139 128 116</td>
<td>0.61</td>
<td>72.7</td>
<td>2.0</td>
<td></td>
</tr>
</tbody>
</table>

Speed is Nominal. Performances at .2” of w.g. are HVI certified.

AMCA Certified Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed Setting</th>
<th>Speed (RPM)</th>
<th>CFM @ Static Pressure (inches w.g.)</th>
<th>Sones @ .2” SP</th>
<th>Amps @ .2” SP</th>
<th>Watts @ .2” SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1,484</td>
<td>84 66 58 50 41 33 18 10</td>
<td>0.49</td>
<td>40.4</td>
<td>1.7</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1,864</td>
<td>140 121 110 100 91 84 68 52</td>
<td>0.56</td>
<td>53.7</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2,549</td>
<td>214 196 188 180 172 164 149 135</td>
<td>0.6</td>
<td>72.2</td>
<td>2.6</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1,581</td>
<td>62 50 45 40 35 28 16 7</td>
<td>0.5</td>
<td>40.8</td>
<td>1.4</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>1,895</td>
<td>118 103 97 90 84 78 67 52</td>
<td>0.56</td>
<td>53.6</td>
<td>1.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2,510</td>
<td>174 162 156 150 144 139 128 116</td>
<td>0.61</td>
<td>72.7</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Speed is Nominal. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the Models RF10 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Dimensions (in)

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160AC-P-ES24V_03022022
ES24V - Envirosense Ventilation Control
Submittal

ES24V
The ES24V control can be used with our RF-reFresh, TD-MIXVENT, TD-SILENT, PV-POWERVENT, or TR-ERVs. When paired with S&P fans the ES24V provides fully controllable fresh air into a residence. With three modes (Off, On, and Eco-Mode) the ES24V ensures compliance with today’s outside air codes.

• “Off” allows for manual override as required by the code
• “On” allows for continuous operation
• “Eco-Mode” allows homeowner to set humidity and/or temperature minimum and maximums.
• When readings exceed the programmed min/max parameters the control reverts to a minimum operation sequence to satisfy code requirements. When the outside air is within the min and max range the fan will operate at the set time limit or continuously to meet the code requirements, i.e. 25 minutes every hour.

Features
• Easy to read, back-lit LCD screen
• 24 VAC control
• Intuitive four-button user interface
• Easily programmable to operate the supply fan continuously or intermittently using on and Eco-Modes respectively
• Measures outdoor humidity and temperature and minimizes ventilation at adjustable high and low outdoor temperature and humidity lockouts
• Optional interlocking with central A/C blower motor
• Control programming maintains ASHRAE 62.2-2010 even during high and low temperature and humidity limit lockouts
• Installation flexibility – ability to override humidity and temperature control
• Auxiliary terminals for optional supply fan, duct heater and motorized damper connections

Dimensions

All specifications are subject to change without notice unless approved in submittal by S&P USA.
ES24V-Submittal_03102022