Specifications
- 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 speed control to set required intake with high, medium, and low set points
- 6' power cord
- AMCA Air and Sound Licensed
- HVI Certified performance with and without optional MERV13 Filters
- cULus 507 Listed

Options and Accessories
- 10 x 10 x 2" MERV8 or MERV13 filters
- ES24V – Envirosense Ventilation Control (loose)
- Steel backdraft dampers
- Motorized backdraft damper
- Duct heater

All specifications are subject to change without notice unless approved in submittal by S&P USA.
## 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>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
<th>Efficacy (CFM/Watts) @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1630</td>
<td>81 58 48 40 33 26 16 -</td>
<td>0.46</td>
<td>36.2</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2050</td>
<td>141 116 108 100 91 82 65 50</td>
<td>0.54</td>
<td>51.3</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2600</td>
<td>203 186 178 170 163 156 143 130</td>
<td>0.61</td>
<td>72.5</td>
<td>2.5</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>(With MERV 13 Filter)</td>
<td>LS</td>
<td>1640</td>
<td>54 42 36 30 25 20 13 -</td>
<td>0.47</td>
<td>36.4</td>
</tr>
<tr>
<td></td>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2060</td>
<td>121 106 98 90 82 74 59 47</td>
<td>0.54</td>
<td>50.9</td>
</tr>
<tr>
<td></td>
<td>(With MERV 13 Filter)</td>
<td>HS</td>
<td>2590</td>
<td>172 160 155 150 144 139 127 114</td>
<td>0.61</td>
<td>72.5</td>
</tr>
</tbody>
</table>

*Speed is Nominal.*

## 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&quot; SP</th>
<th>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1510</td>
<td>81 60 52 45 38 32 25 17</td>
<td>2.1</td>
<td>0.46</td>
<td>33.6</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1990</td>
<td>137 120 107 97 89 81 68 56</td>
<td>3.3</td>
<td>0.55</td>
<td>50.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2540</td>
<td>208 196 188 180 172 163 148 134</td>
<td>5.2</td>
<td>0.61</td>
<td>70.9</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>(With MERV 13 Filter)</td>
<td>LS</td>
<td>1600</td>
<td>63 52 46 40 35 32 26 19</td>
<td>2.3</td>
<td>0.46</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2000</td>
<td>105 91 83 77 70 65 55 46</td>
<td>3.7</td>
<td>0.54</td>
<td>47.7</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>HS</td>
<td>2570</td>
<td>175 163 157 151 145 140 128 116</td>
<td>5.1</td>
<td>0.61</td>
<td>71.6</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_V.3 / 02-2019
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 speed control to set required intake with high, medium, and low set points
- 6' power cord
- AMCA Air and Sound Licensed
- HVI Certified performance with and without optional MERV13 Filters
- cULus 507 Listed

Options and Accessories

- 10 x 10 x 2" MERV8 or MERV13 filters
- ES24V – Envirosense Ventilation Control (loose)
- Steel backdraft dampers
- Motorized backdraft damper
- Duct heater

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-ES24V_V.3 / 02-2019
### 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>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>1630</td>
<td>81 58 48 40 33 26 16 -</td>
<td>0.46</td>
<td>36.2</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2050</td>
<td>141 116 108 100 91 82 65 50</td>
<td>0.54</td>
<td>51.3</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2600</td>
<td>203 186 178 170 163 156 143 130</td>
<td>0.61</td>
<td>72.5</td>
<td>2.5</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1640</td>
<td>54 42 36 30 25 20 13 -</td>
<td>0.47</td>
<td>36.4</td>
<td>1.2</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2060</td>
<td>121 106 98 90 82 74 59 47</td>
<td>0.54</td>
<td>50.9</td>
<td>1.8</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2590</td>
<td>172 160 155 150 144 139 127 114</td>
<td>0.61</td>
<td>72.5</td>
<td>2.2</td>
</tr>
</tbody>
</table>

### 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>1510</td>
<td>81 60 52 45 38 32 25 17</td>
<td>2.1</td>
<td>0.46</td>
<td>33.6</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1990</td>
<td>137 120 107 97 89 81 68 56</td>
<td>3.3</td>
<td>0.55</td>
<td>50.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2540</td>
<td>208 196 188 180 172 163 148 134</td>
<td>5.2</td>
<td>0.61</td>
<td>70.9</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1600</td>
<td>63 52 46 40 35 32 26 19</td>
<td>2.3</td>
<td>0.46</td>
<td>34.3</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2000</td>
<td>105 91 83 77 70 65 55 46</td>
<td>3.7</td>
<td>0.54</td>
<td>47.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2570</td>
<td>175 163 157 151 145 140 128 116</td>
<td>5.1</td>
<td>0.61</td>
<td>71.6</td>
</tr>
</tbody>
</table>

### Dimensions (in)

- Width: 17.27 in
- Height: 11.50 in
- Depth: 10.55 in

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

RF10-160AC-ES24V_V.3 / 02-2019

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.
ES24V - Envirosense Ventilation Control
Submittal

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 min and max are sensed the fan will not bring in outside air. 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. 15 minutes every 4-hours

Features
- Easy to read, back-lit LCD screen
- 24-volt control
- Simple setup with four-button interface
- Can be set to run supply fan continuously or intermittently or using Eco-Mode to turn fan off at set temperature/humidity
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures outdoor humidity to stop ventilation at adjustable high and low humidity lockouts
- Control programming maintains ASHRAE 62.2-2010 even during high and low temperature limit lockouts
- Installation flexibility – ability to override humidity and temperature control
- Inputs for optional duct heater and motorized damper

Dimensions

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160AC-ES24V_V.3 / 02-2019
Specifications

- 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 speed control to set required intake with high, medium, and low set points
- 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
- ES24V – Envirosense Ventilation Control (loose)
- Steel backdraft dampers
- Motorized backdraft damper
- Duct heater

All specifications are subject to change without notice unless approved in submittal by S&P USA.
### 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>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>1630</td>
<td>81 58 48 40 33 26 16 -</td>
<td>0.46</td>
<td>36.2</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2050</td>
<td>141 116 108 100 91 82 65 50</td>
<td>0.54</td>
<td>51.3</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2600</td>
<td>203 186 178 170 163 156 143 130</td>
<td>0.61</td>
<td>72.5</td>
<td>2.5</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1640</td>
<td>54 42 36 30 25 20 13 -</td>
<td>0.47</td>
<td>36.4</td>
<td>1.2</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2060</td>
<td>121 106 98 90 82 74 59 47</td>
<td>0.54</td>
<td>50.9</td>
<td>1.8</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2590</td>
<td>172 160 155 150 144 139 127 114</td>
<td>0.61</td>
<td>72.5</td>
<td>2.2</td>
</tr>
</tbody>
</table>

*Speed is Nominal.*

### 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>1510</td>
<td>81 60 52 45 38 32 25 17</td>
<td>2.1</td>
<td>0.46</td>
<td>33.6</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1990</td>
<td>137 120 107 97 89 81 68 56</td>
<td>3.3</td>
<td>0.55</td>
<td>50.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2540</td>
<td>208 196 188 180 172 163 148 134</td>
<td>5.2</td>
<td>0.61</td>
<td>70.9</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1600</td>
<td>63 52 46 40 35 32 26 19</td>
<td>2.3</td>
<td>0.46</td>
<td>34.3</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS</td>
<td>2000</td>
<td>105 91 83 77 70 65 55 46</td>
<td>3.7</td>
<td>0.54</td>
<td>47.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2570</td>
<td>175 163 157 151 145 140 128 116</td>
<td>5.1</td>
<td>0.61</td>
<td>71.6</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)

![Dimensions Diagram]

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

RF10-160AC-P_V.3 / 02-2019
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 speed control to set required intake with high, medium, and low set points
• 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

All specifications are subject to change without notice unless approved in submittal by S&P USA.
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>Amps @ .2” SP</th>
<th>Watts @ .2” SP</th>
<th>Efficacy (CFM/ Watts) @ .2” SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>.1</td>
<td>.15</td>
<td>.2</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1630</td>
<td>81</td>
<td>58</td>
<td>48</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2050</td>
<td>141</td>
<td>116</td>
<td>108</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2600</td>
<td>203</td>
<td>186</td>
<td>178</td>
<td>170</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1640</td>
<td>54</td>
<td>42</td>
<td>36</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2060</td>
<td>121</td>
<td>106</td>
<td>98</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2590</td>
<td>172</td>
<td>160</td>
<td>155</td>
<td>150</td>
</tr>
</tbody>
</table>

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></td>
<td></td>
<td></td>
<td>0</td>
<td>.1</td>
<td>.15</td>
<td>.2</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1510</td>
<td>81</td>
<td>60</td>
<td>52</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1990</td>
<td>137</td>
<td>120</td>
<td>107</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2540</td>
<td>208</td>
<td>196</td>
<td>188</td>
<td>180</td>
</tr>
<tr>
<td>RF10-160AC</td>
<td>LS</td>
<td>1600</td>
<td>63</td>
<td>52</td>
<td>46</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>2000</td>
<td>105</td>
<td>91</td>
<td>83</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2570</td>
<td>175</td>
<td>163</td>
<td>157</td>
<td>151</td>
</tr>
</tbody>
</table>

Dimensions (in)
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 min and max are sensed the fan will not bring in outside air. 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. 15 minutes every 4-hours

**Features**
- Easy to read, back-lit LCD screen
- 24-volt control
- Simple setup with four-button interface
- Can be set to run supply fan continuously or intermittently or using Eco-Mode to turn fan off at set temperature/humidity
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures outdoor humidity to stop ventilation at adjustable high and low humidity lockouts
- Control programming maintains ASHRAE 62.2-2010 even during high and low temperature limit lockouts
- Installation flexibility – ability to override humidity and temperature control
- Inputs for optional duct heater and motorized damper

**Dimensions**

---

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160AC-P-ES24V_V.3 / 02-2019
RF10-160EC

Specifications

• 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, EC motor, 120V, 60 Hz
• 4 pole, permanently lubricated, thermally protected motor
• Internally mounted speed control to set required intake with high, medium, and low set points
• 6’ power cord
• ENERGY STAR® qualified
• AMCA Air and Sound Licensed
• HVI Certified performance with and without optional MERV13 Filters
• cULus 507 Listed

Options and Accessories

• 10 x 10 x 2” MERV8 or MERV13 filters
• ES24V – Envirosense Ventilation Control (loose)
• Steel backdraft dampers
• Motorized backdraft damper
• Duct heater

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160EC_V.3 / 02-2019
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>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
<th>Efficacy (CFM/Watts) @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1340</td>
<td>84 65 53 40 27 - - -</td>
<td>0.13</td>
<td>7.5</td>
<td>7.1</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>139 120 110 100 91 78 52 -</td>
<td>0.25</td>
<td>15.6</td>
<td>6.9</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>201 185 177 163 155 139 121</td>
<td>0.54</td>
<td>34</td>
<td>5.1</td>
</tr>
<tr>
<td>RF10-160EC</td>
<td>(With MERV 13 Filter)</td>
<td>LS 1340</td>
<td>68 52 42 30 19 - - -</td>
<td>0.13</td>
<td>7.2</td>
<td>5.6</td>
</tr>
<tr>
<td></td>
<td>(With MERV 13 Filter)</td>
<td>MS 1730</td>
<td>126 108 99 90 78 68 46 -</td>
<td>0.26</td>
<td>15.6</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>(With MERV 13 Filter)</td>
<td>HS 2300</td>
<td>176 162 156 150 143 136 121 105</td>
<td>0.56</td>
<td>35.5</td>
<td>4.2</td>
</tr>
</tbody>
</table>

Speed is Nominal.

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&quot; SP</th>
<th>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1330</td>
<td>111 88 77 64 48 26 - - -</td>
<td>1.5</td>
<td>0.12</td>
<td>8.2</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>152 133 124 114 103 93 70 39</td>
<td>3.4</td>
<td>0.23</td>
<td>15.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>212 197 190 182 174 167 152 136</td>
<td>6.0</td>
<td>0.49</td>
<td>35.1</td>
</tr>
<tr>
<td>RF10-160EC</td>
<td>(With MERV 13 Filter)</td>
<td>LS 1330</td>
<td>90 72 60 49 25 12 - - -</td>
<td>1.4</td>
<td>0.12</td>
<td>7.5</td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>MS 1730</td>
<td>127 113 104 95 86 77 56 24</td>
<td>3.7</td>
<td>0.22</td>
<td>15.7</td>
<td></td>
</tr>
<tr>
<td>(With MERV 13 Filter)</td>
<td>HS 2300</td>
<td>182 169 162 156 150 144 131 116</td>
<td>5.0</td>
<td>0.48</td>
<td>35.8</td>
<td></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.

RF10-160EC_V.3 / 02-2019
ReFresh RF10-160EC-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, EC motor, 120V, 60 Hz
• 4 pole, permanently lubricated, thermally protected motor
• Internally mounted speed control to set required intake with high, medium, and low set points
• 6’ power cord
• ENERGY STAR® qualified
• 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

RF10-160EC, No Filter

RF10-160EC, MERV 13 Filter

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160EC-ES24V_V.4 / 02-2019
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>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
<th>Efficacy (CFM/Watts) @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1340</td>
<td>84</td>
<td>65</td>
<td>53</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>139</td>
<td>120</td>
<td>110</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>201</td>
<td>185</td>
<td>177</td>
<td>170</td>
</tr>
<tr>
<td>RF10-160EC (With MERV 13 Filter)</td>
<td>LS</td>
<td>1340</td>
<td>68</td>
<td>52</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>126</td>
<td>108</td>
<td>99</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>176</td>
<td>162</td>
<td>156</td>
<td>150</td>
</tr>
</tbody>
</table>

Speed is Nominal.

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&quot; SP</th>
<th>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1330</td>
<td>111</td>
<td>88</td>
<td>77</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>152</td>
<td>133</td>
<td>124</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>212</td>
<td>197</td>
<td>190</td>
<td>182</td>
</tr>
<tr>
<td>RF10-160EC (With MERV 13 Filter)</td>
<td>LS</td>
<td>1330</td>
<td>90</td>
<td>72</td>
<td>60</td>
<td>49</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>127</td>
<td>113</td>
<td>104</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>182</td>
<td>169</td>
<td>162</td>
<td>156</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.
RF10-160EC-ES24V_V.4 / 02-2019
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 min and max are sensed the fan will not bring in outside air. 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. 15 minutes every 4-hours

**Features**
- Easy to read, back-lit LCD screen
- 24-volt control
- Simple setup with four-button interface
- Can be set to run supply fan continuously or intermittently or using Eco-Mode to turn fan off at set temperature/humidity
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures outdoor humidity to stop ventilation at adjustable high and low humidity lockouts
- Control programming maintains ASHRAE 62.2-2010 even during high and low temperature limit lockouts
- Installation flexibility – ability to override humidity and temperature control
- Inputs for optional duct heater and motorized damper

**Dimensions**

[Image of dimensions]
Specifications

- 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, EC motor, 120V, 60 Hz
- 4 pole, permanently lubricated, thermally protected motor
- Internally mounted speed control to set required intake with high, medium, and low set points
- ENERGY STAR® qualified
- 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
- ES24V – Envirosense Ventilation Control (loose)
- Steel backdraft dampers
- Motorized backdraft damper
- Duct heater
### 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>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
<th>Efficacy (CFM/Watts) @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1340</td>
<td>84 65 53 40 27 - - -</td>
<td>0.13</td>
<td>7.5</td>
<td>7.1</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>139 120 110 91 78 52 -</td>
<td>0.25</td>
<td>15.6</td>
<td>6.9</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>201 185 177 163 155 139 121 105</td>
<td>0.54</td>
<td>34</td>
<td>5.1</td>
</tr>
<tr>
<td>RF10-160EC (With MERV 13 Filter)</td>
<td>LS</td>
<td>1340</td>
<td>68 52 42 30 19 - - -</td>
<td>0.13</td>
<td>7.2</td>
<td>5.6</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>126 108 99 78 68 46 -</td>
<td>0.26</td>
<td>15.6</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>176 162 156 150 143 136 121 105</td>
<td>0.56</td>
<td>35.5</td>
<td>4.2</td>
</tr>
</tbody>
</table>

*Speed is Nominal.*

### 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&quot; SP</th>
<th>Amps @ .2&quot; SP</th>
<th>Watts @ .2&quot; SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1330</td>
<td>111 88 77 64 48 26 - - -</td>
<td>1.5</td>
<td>0.12</td>
<td>8.2</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>152 133 124 114 103 93 70 39</td>
<td>3.4</td>
<td>0.23</td>
<td>15.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>212 197 190 182 174 167 152 136</td>
<td>6.0</td>
<td>0.49</td>
<td>35.1</td>
</tr>
<tr>
<td>RF10-160EC (With MERV 13 Filter)</td>
<td>LS</td>
<td>1330</td>
<td>90 72 60 49 25 12 - - -</td>
<td>1.4</td>
<td>0.12</td>
<td>7.5</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>127 113 104 95 86 77 56 24</td>
<td>3.7</td>
<td>0.22</td>
<td>15.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>182 169 162 156 150 144 131 116</td>
<td>5.0</td>
<td>0.48</td>
<td>35.8</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)

![Dimensions Diagram](image-url)

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

RF10-160EC-P_V.3 / 02-2019
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, EC motor, 120V, 60 Hz
- 4 pole, permanently lubricated, thermally protected motor
- Internally mounted speed control to set required intake with high, medium, and low set points
- ENERGY STAR® qualified
- 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

All specifications are subject to change without notice unless approved in submittal by S&P USA.
ReFresh RF10-160EC-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>Amps @ .2” SP</th>
<th>Watts @ .2” SP</th>
<th>Efficacy (CFM/Watts) @ .2” SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF10-160EC</td>
<td>LS</td>
<td>1340</td>
<td>68 52 42 30 19 - - -</td>
<td>0.13</td>
<td>7.5</td>
<td>7.1</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>126 108 99 78 68 46 - -</td>
<td>0.26</td>
<td>15.6</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>176 162 156 150 143 136 121 105</td>
<td>0.56</td>
<td>35.5</td>
<td>4.2</td>
</tr>
<tr>
<td>RF10-160EC</td>
<td>(With MERV 13 Filter)</td>
<td>1340</td>
<td>68 52 42 30 19 - - -</td>
<td>0.13</td>
<td>7.2</td>
<td>5.6</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>126 108 99 78 68 46 - -</td>
<td>0.26</td>
<td>15.6</td>
<td>5.8</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>176 162 156 150 143 136 121 105</td>
<td>0.56</td>
<td>35.5</td>
<td>4.2</td>
</tr>
</tbody>
</table>

Speed is Nominal.

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>RF10-160EC</td>
<td>LS</td>
<td>1330</td>
<td>111 88 77 64 48 26 - - -</td>
<td>1.5</td>
<td>0.12</td>
<td>8.2</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>152 133 124 114 103 93 70 39</td>
<td>3.4</td>
<td>0.23</td>
<td>15.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>212 197 190 182 174 167 152 136</td>
<td>6.0</td>
<td>0.49</td>
<td>35.1</td>
</tr>
<tr>
<td>RF10-160EC</td>
<td>(With MERV 13 Filter)</td>
<td>1330</td>
<td>90 72 60 49 25 12 - - -</td>
<td>1.4</td>
<td>0.12</td>
<td>7.5</td>
</tr>
<tr>
<td></td>
<td>MS</td>
<td>1730</td>
<td>127 113 104 95 86 77 56 24</td>
<td>3.7</td>
<td>0.22</td>
<td>15.7</td>
</tr>
<tr>
<td></td>
<td>HS</td>
<td>2300</td>
<td>182 169 162 150 143 131 116 96</td>
<td>5.0</td>
<td>0.48</td>
<td>35.8</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

All specifications are subject to change without notice unless approved in submittal by S&P USA.
RF10-160EC-P-ES24V_V.3 / 02-2019
ES24V - Envirosense Ventilation Control

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 min and max are sensed the fan will not bring in outside air. 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. 15 minutes every 4-hours

**Features**
- Easy to read, back-lit LCD screen
- 24-volt control
- Simple setup with four-button interface
- Can be set to run supply fan continuously or intermittently or using Eco-Mode to turn fan off at set temperature/humidity
- Measures outdoor temperature to stop ventilation at adjustable high and low outdoor temperature lockouts
- Measures outdoor humidity to stop ventilation at adjustable high and low humidity lockouts
- Control programming maintains ASHRAE 62.2-2010 even during high and low temperature limit lockouts
- Installation flexibility – ability to override humidity and temperature control
- Inputs for optional duct heater and motorized damper

**Dimensions**

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

RF10-160EC-P-ES24V_V.3 / 02-2019