MODEL OVERVIEW
The extremely quiet FF and FFC ventilators are available from 50 to 3600 CFM, with static pressure capabilities to 1”. All units have centrifugal blower wheels and low RPM motors on resilient mounts (except FF50 and AF80).

The forward curved centrifugal wheel with its high static pressure capability makes these ventilators suitable for either ducted or nonducted applications. They include removable blower assemblies and plug-in permanently lubricated motors for ease of servicing and cleaning.

MODELS AF, FF & FFC
CEILING AND INLINE/CABINET VENTILATORS

MODEL FF FEATURES
• Exhaust air up to 1500 CFM
• Forward curve centrifugal wheel for high static pressure capabilities to 1” w.g.
• Resilient mount, low RPM motor for quiet operation (except FF50 and AF80)
• Speed controllable
• AMCA Seal for Air Performance
• cULus Listed (except FF50 & AF80 which are UL only)

MODEL FFC FEATURES
• Exhaust air up to 3600 CFM
• Forward curve centrifugal wheel for high static pressure capabilities to 1” w.g.
• Resilient mount, low RPM motor for quiet operation
• Speed controllable
• AMCA Seal for Air Performance
• cULus Listed

Models FF and FFC are available in our Quickship program. All sizes are available for next day shipping from stock.

1 year fan housing warranty, 1 year motor warranty
CONSTRUCTION/SPECIFICATION CHECKLIST

Grille
• Conceals interior.
• Low profile styling, blends with any decor.
• White polymeric (FF50 - FF300).
• Metal finished with white enamel finish (FF400-FF1500).

Blower
• Low RPM for quiet operation, speed controllable.
• Resilient anti-vibration mounts (FF50 & AF80 rigid mount).
• Balanced, polymeric, centrifugal blower wheel for quiet, efficient performance. (Metal wheel on FFC2000 & FFC3500).
• Permanently lubricated, thermally protected motor.
• Plug-in motor.
• Designed for continuous operation.

Housing
• Rugged, 20 gauge galvanized steel.
• Duct connector.
• 1/2" acoustic insulation inside (except FF50, AF80 & FFC's).
• Integral automatic backdraft damper.
• Easy inline conversion available (FF100-FF1500).
• May be installed in ceiling or wall.
• Mounting brackets for easy installation and adaptability to numerous mounting requirements.
• Factory-shipped in horizontal discharge position, easily converted to vertical discharge.
• FFC inline units have a removable panel which allows for easy motor access without disturbing ductwork.

AMCA Seal
• AMCA Air and Sound Licensed

UL Label
• cULus listed (except FF50 & AF80 which are UL only).
OPTIONS/ACCESSORIES

Roof Cap and Wall Cap
• Weather resistant duct termination.

Inline Adapter Kit
• Converts FF units into inline units.
• Available for FF100 through FF1500

Radiation Damper
• UL rated for use in 1, 2, or 3 hour rated floor-ceiling, roof-ceiling design.
• Mounts directly to the fan, screws provided.
• Galvanized steel frame.
• High temperature, non-asbestos, reinforced fiber thermal fabric.
• 212°F fusible link.
• Stainless steel negator-type closure spring.
• Available for FF100 through FF1500.

Metal Grille Kit
• White enamel painted steel.
• Mounting screws included.

Duct Transition
• Allows for quick transition to round ducting.
• Galvanized steel construction.

Vibration Dampening Hangers
• Rubber in shear.
• Heavy-gauge steel construction with neoprene vibration dampening cushion.
• For use with 3/8” threaded rod (by others).

Damper Kit (for FFC 2000 and FFC 3500)
• Twin damper flaps and mounting hardware.
• Foam cushion and magnetic catch assure quiet backdraft prevention.
MODELS FF & FFC
CEILING AND INLINE/CABINET VENTILATORS
OPTIONS/ACCESSORIES (cont.)

961L In-Line Adaptor Kit
- Galvanized steel
- Fits FF100 & FF150
- For 6" round duct intake

982L In-Line Adaptor Kit
- Galvanized steel
- Fits FF400, FF500 & FF700
- 4 1/2 x 18 1/2" duct intake

981L In-Line Adaptor Kit
- Galvanized steel
- Fits FF200, FF250 & FF300
- For 8" round duct intake

983 In-Line Adaptor Kit
- Galvanized steel
- Fits FF900 & FF1500
- 8" x 12" round duct intake

Model 441 Wall Cap
- Gravity dampers
- Collar with birdscreen for attaching 10" round duct
- Steel construction with aluminum louvers

Model 613 Wall Cap
- High Capacity
- Built-in backdraft damper & birdscreen
- Aluminum natural finish
- For 12" round duct

Model 641 Wall Cap
- Aluminum natural finish
- Built-in backdraft damper & birdscreen
- For 6" round duct

Model 642 Wall Cap
- Aluminum natural finish
- Built-in backdraft damper
- For 3" or 4" round duct
- (4" to 3" transition included)

Model 643 Wall Cap
- Aluminum natural finish
- Built-in backdraft damper
- For 8" round duct

Model 437 Roof Cap
- High capacity design - up to 1200 CFM
- Built-in spring-loaded backdraft damper & birdscreen
- Steel, black electrically - bonded epoxy finish

Model 636 Roof Cap
- Black electrically - bonded epoxy finish
- Built-in backdraft damper & birdscreen
- For 3" or 4" round duct

Model 636AL - Aluminum

Model 634 Roof Cap
- Black electrically - bonded epoxy finish
- Built-in backdraft damper & birdscreen
- For 3 1/4" x 10" or up to 8" round duct

Model 644 - Aluminum
OPTIONS/ACCESSORIES (cont.)

Model RCXIISF08 Flat Roof Cap
- For flat roof installation
- Spun Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct

Model RCXIISF12 Flat Roof Cap
- For flat roof installation
- Spun Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct

Model RCXII08 Curb Mount Roof Cap
- For curb mount installation
- Use 14-3/4" x 14-3/4" x 8" high curb
- Spun Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct

Model RCXII12 Curb Mount Roof Cap
- For curb mount installation
- Use 22-1/4" x 22-1/4" x 8" high curb.
- Spun Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct

Model MG 1 Metal Grille Kit
- White enamel painted steel
- Mounting screws included
- Fits FF100, FF150, FF200, FF250 & FF300

Models 423 & T81212 Duct Transitions
- Galvanized steel
- Allows for quick transition to easy-to-obtain-and-install round ducting
- 423 (4 1/2" x 18" to 10 round) for use with FF400 thru FF700
- T81212 (8" x 12" to 12" round) for use with FF900 and FF1500

Models RD1, RD2 & RD3 Radiation Dampers
- UL rated for use in 1, 2 or 3 hour rated floor-ceiling, roof-ceiling design
- Galvanized steel frame
- High temperature, non-asbestos, reinforced fiber thermal fabric
- 212°F fusible link
- Stainless steel negator-type closure spring
- RD1 (12 1/4" x 12 1/4") fits FF100 - FF300
- RD2 (211/2" x 18") fits FF400 - FF700
- RD3 (22" x 18") fits FF900 - FF1500

Model RD80AF Radiation Damper
- UL rated for use in 1, 2 or 3 hour rated floor-ceiling, roof-ceiling design
- Galvanized steel frame
- High temperature, non-asbestos, reinforced fiber thermal fabric
- 165°F fusible link
- Stainless steel closure springs
- RD80AF fits AF80

Model RCXII - 18" and 20" units

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>18</td>
<td>19</td>
<td>29.5</td>
<td>22</td>
<td>27</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>29.5</td>
<td>22</td>
<td>30</td>
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## OPTIONAL ACCESSORY COMPATIBILITY CHART

### MODELS FF & FFC

### CEILING AND IN-LINE/CABINET VENTILATORS

<table>
<thead>
<tr>
<th>VARIABLE SPEED CONTROLS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF50 FF100 FF200 FF400 FF700 FF900 FF1500</td>
<td>FFCC100 FFCC150 FFCC200 FFCC280 FFCC300 FFCC400 FFCC500 FFCC700 FFCC900 FFCC1500 FFCC2000 FFCC3500</td>
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</tr>
<tr>
<td>2727.1 (5 AMP 120V)</td>
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<td>X X</td>
</tr>
<tr>
<td>2828.1 (10AMP 120V)</td>
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80L in-unit speed control (3 amp 120 Volt) Ships separately for field mounting

<table>
<thead>
<tr>
<th>80L in-unit speed control (3 amp 120 Volt) Ships separately for field mounting</th>
<th>FF50 FF100 FF200 FF400 FF700 FF900 FF1500</th>
<th>FFCC100 FFCC150 FFCC200 FFCC280 FFCC300 FFCC400 FFCC500 FFCC700 FFCC900 FFCC1500 FFCC2000 FFCC3500</th>
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<tr>
<td>75V (240V)</td>
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<td>277V (277V)</td>
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### ROOF CAPS

<table>
<thead>
<tr>
<th>ROOF CAPS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
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<tbody>
<tr>
<td>437</td>
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<td>X</td>
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<tr>
<td>RCXI08, RCXIISF08</td>
<td>X X X</td>
<td>X X</td>
</tr>
<tr>
<td>RCXI12, RCXIISF12</td>
<td>X X X X</td>
<td>X X X X</td>
</tr>
<tr>
<td>634M</td>
<td>X X</td>
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<td>636, 636AL</td>
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<td>RCXI18</td>
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<td>RCXI20</td>
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### WALL CAPS

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<th>WALL CAPS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
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<tr>
<td>441</td>
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</tr>
<tr>
<td>613</td>
<td>X X</td>
<td>X X</td>
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<tr>
<td>643</td>
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</table>

### IN-LINE ADAPTERS

<table>
<thead>
<tr>
<th>IN-LINE ADAPTERS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
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</thead>
<tbody>
<tr>
<td>961L</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>981L</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>982L</td>
<td>X X</td>
<td></td>
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<tr>
<td>983L</td>
<td>X X</td>
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### UL RADIATION DAMPERS

<table>
<thead>
<tr>
<th>UL RADIATION DAMPERS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
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</thead>
<tbody>
<tr>
<td>RD1</td>
<td>X X</td>
<td></td>
</tr>
<tr>
<td>RD2</td>
<td>X X</td>
<td></td>
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<td>RD3</td>
<td>X X</td>
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<tr>
<td>RD for AF80</td>
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</tbody>
</table>

### METAL Grille KIT

<table>
<thead>
<tr>
<th>METAL Grille KIT</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>G102</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>G103</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>MG1</td>
<td>X X</td>
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</tr>
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</table>

### DUCT TRANSITIONS

<table>
<thead>
<tr>
<th>DUCT TRANSITIONS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>423</td>
<td>X X</td>
<td>X</td>
</tr>
<tr>
<td>T81212</td>
<td>X X</td>
<td>X X</td>
</tr>
</tbody>
</table>

### DAMPER KITS

<table>
<thead>
<tr>
<th>DAMPER KITS</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>D101</td>
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<td>X</td>
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</table>

### VIBRATION DAMPENING HANGERS (4)

<table>
<thead>
<tr>
<th>VIBRATION DAMPENING HANGERS (4)</th>
<th>CEILING MOUNT MODEL FF</th>
<th>IN-LINE/CABINET MODEL FFC</th>
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</thead>
<tbody>
<tr>
<td>V102</td>
<td>X X X X X X X X X</td>
<td>X</td>
</tr>
<tr>
<td>V104</td>
<td>X X X X X X X X X</td>
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</tbody>
</table>

* Compatible with AF80 but not FF50
MODEL FF PERFORMANCE

### FF CEILING VENTILATORS

<table>
<thead>
<tr>
<th>MODEL FF</th>
<th>CFM / Sones at Static Pressure (PS - Inches of H₂O)</th>
<th>AMPS @ 60HZ / WATTS</th>
<th>RPM @ 1/8</th>
<th>Voltage</th>
<th>Average Ship Wt. Lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>52 / 49 / 47 / 42 / 29 / - / - / - / - / - / -</td>
<td>0.8/48 1870 120 4</td>
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<td></td>
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<tr>
<td>100</td>
<td>136 / 115 / 109 / 93 / 80 / 65 / 44 / - / - / -</td>
<td>1.1/87 640 120 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>181 / 161 / 157 / 141 / 132 / 124 / 114 / 94 / 62 / -</td>
<td>1.3/100 710 120 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>231 / 214 / 210 / 196 / 186 / 177 / 165 / 144 / 113 / 51</td>
<td>1.8/127 740 120 23</td>
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<tr>
<td>250</td>
<td>272 / 261 / 259 / 250 / 242 / 233 / 218 / 201 / 165 / 99</td>
<td>2.1/166 830 120 23</td>
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<td></td>
<td></td>
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<tr>
<td>300</td>
<td>312 / 309 / 308 / 303 / 296 / 287 / 273 / 254 / 219 / 125</td>
<td>2.6/212 905 120 23</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>400</td>
<td>480 / 442 / 434 / 388 / 344 / 299 / 229 / 182 / 114 / -</td>
<td>1.4/146 735 120 34</td>
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<tr>
<td>500</td>
<td>538 / 520 / 514 / 491 / 463 / 434 / 389 / 339 / 282 / 186</td>
<td>2.2/232 810 120 34</td>
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<td></td>
<td></td>
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<tr>
<td>700</td>
<td>722 / 704 / 701 / 667 / 640 / 607 / 571 / 534 / 453 / 333</td>
<td>2.9/313 960 120 34</td>
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<td></td>
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<tr>
<td>900</td>
<td>918 / 905 / 901 / 877 / 842 / 793 / 725 / 638 / 536 / 390</td>
<td>3.0/306 650 120 64</td>
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<td></td>
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<tr>
<td>1500</td>
<td>1578 / 1526 / 1513 / 1438 / 1371 / 1285 / 1198 / 1103 / 1000 / 816</td>
<td>5.0/468 955 120 64</td>
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</table>

### MODEL AF80 AMCA Certified Performance

<table>
<thead>
<tr>
<th>AMPS @ 60HZ/WATTS</th>
<th>CFM / Sones at Static Pressure (in wc)</th>
<th>Volts</th>
<th>Nominal (RPM)</th>
<th>Duct Size</th>
<th>Average Ship Wt. (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3/27</td>
<td>89 / 79 / 72 / 65 / 58 / 51 / 44 / 36</td>
<td>120</td>
<td>1,110</td>
<td>4&quot; Round</td>
<td>8</td>
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</tbody>
</table>

Performance ratings include the effects of inlet grille and backdraft damper. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5’ (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels. Performance certified is for installation Type B: Free inlet, Ducted outlet.

### MODEL AF80 HVI Certified Performance

<table>
<thead>
<tr>
<th>AMPS @ 60HZ/WATTS</th>
<th>CFM / Sones at Static Pressure (in wc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3/27</td>
<td>80 / 60</td>
</tr>
</tbody>
</table>

SAP USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the Models FF/FFC 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.
# FFC INLINE/CABINET VENTILATORS

## MODEL FFC PERFORMANCE

### FFC CABINET VENTILATORS

<table>
<thead>
<tr>
<th>Model FFC</th>
<th>CFM / Sones at Static Pressure (PS - Inches of H₂O)</th>
<th>AMPS @ 60HZ/ WATTS</th>
<th>RPM @ 1/8</th>
<th>Voltage</th>
<th>Average Ship Wt. Lbs.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>1/10</td>
<td>1/8</td>
<td>1/4</td>
<td>3/8</td>
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<td>100</td>
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<td>704</td>
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<td>681</td>
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<td>930</td>
<td>902</td>
<td>894</td>
<td>853</td>
<td>807</td>
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<td>1500</td>
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<td>1228</td>
<td>1214</td>
<td>1152</td>
<td>1092</td>
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</tbody>
</table>

Performance ratings include the effects of backdraft damper. Speed (RPM) shown is nominal. Performances based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5’ (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. Performance ratings include the effects of 18 feet of round inlet duct and, if needed, a rectangular to round duct transition in the airstream. Performance certified is for Installation Type D: Ducted inlet, Ducted outlet.

### FHC CABINET VENTILATORS

<table>
<thead>
<tr>
<th>Model FHC</th>
<th>CFM / Sones at Static Pressure (PS - Inches of H₂O)</th>
<th>AMPS @ 60HZ/ WATTS</th>
<th>RPM @ 1/8</th>
<th>Voltage</th>
<th>Average Ship Wt. Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>1891</td>
<td>1803</td>
<td>1791</td>
<td>1657</td>
<td>1508</td>
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<td>3500</td>
<td>3605</td>
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<td>3452</td>
<td>3278</td>
<td>3073</td>
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</tbody>
</table>

Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5’ (1.5m) in a hemispherical free field calculated per AMCA Std. 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. Performance certified is for Installation Type D: Ducted inlet, Ducted outlet.

S&P USA Ventilation Systems, LLC., Div. of Soler & Palau Ventilation Group, certifies that the Models FF/FFC 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

CEILING VENTILATOR

FF50

3" ROUND DUCT CONNECTOR

FF200, 250 & 300

8" ROUND DUCT CONNECTOR

AF80

4 1/2" x 18 1/2" DUCT CONNECTOR

FF400, 500 & 700

FF100 & 150

6" ROUND DUCT CONNECTOR

FF900 & 1500

8" x 12" DUCT CONNECTOR

INLINE/CABINET VENTILATOR

FFC100 & 150

6" ROUND DUCT CONNECTOR

FFC200, 250 & 300

8" ROUND DUCT CONNECTOR

FFC3500

FFC900 & 1500

8"x12" DUCT CONNECTOR

FFC400, 500 & 700

4 1/2" x 18 1/2" DUCT CONNECTOR

FFC2000

MODELS FF & FFC
CEILING AND INLINE/CABINET VENTILATORS
Models AF80, FF50, 100, 150, 200, 250, 300, 400, 500, 700, 900, and 1500 Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of inlet grille and backdraft damper.
FFC INLINE/CABINET VENTILATORS QUICK SELECTION GUIDE

FFC100, FFC150

FFC200, FFC250, FFC300

FFC400, FFC500, FFC700

FFC900, FFC1500

FFC2000, FFC3500

FF & FFC QUICK SELECTION GUIDELINES

1. Locate desired CFM on bottom horizontal axis of graph.

2. Locate system static pressure on left vertical axis of graph.

3. Determine intersection of CFM and static pressure.

4. Select fan curve to the right of this intersection.

5. Solid state speed control may be used for selections left of curve, up to 50% CFM reduction.

Models FFC100, 150, 200, 250, 300, 400, 500, 700, 900 and 1500 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings include the effects of backdraft damper, 18 feet of round inlet duct and, if needed, a rectangular to round duct transition.

Models FFC2000 and 3500 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).