Ceiling & Inline/Cabinet Ventilators

Models FF & FFC

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FF/FFC 01.07
January 2007
FF/FFC Application
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 (except FF50) and low RPM motors on resilient mounts (except FF50 and FF80). These units are used to exhaust air from a variety of commercial and institutional applications, such as restrooms, conference rooms, office, storage areas, restaurants, retail stores, schools, and similar buildings. Anywhere quiet, high-capacity ventilation is needed.

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

A complete selection of accessories including speed controls, wall and roof caps, duct transitions, inline adaptors, metal grill kits and radiation dampers simplify installation.

Features
Grill
• 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 & FF80 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, FF80 & 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
• UL & cUL listed
(except FF50 & FF80 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, re-inforced fiber thermal fabric.
• 212°F fusible link.
• Stainless steel negotor-type closure spring.
• Available for FF100 through FF1500.

Metal Grill Kit
• White enamel painted steel.
• Mounting screws included.
• Available for FF100, FF300, FFC2000 and FFC3500.

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.

Quickship Program
Most FF and FFC Models and optional accessories are available on the Quickship Program. This program provides rapid delivery of standard products so that tight project deadlines can be met and downtime on replacement work can be held to a minimum. Delivery options include 24 hour and 5 day shipments.
**Typical Specifications**

**FF50 & FF80**
Ventilator shall have galvanized steel housing with double-strength mounting flanges. It shall be ducted vertically (horizontally) to a roof cap (wall cap).

Motor assembly shall be removable and permanently lubricated.

Air delivery shall be no less and sound levels no greater than listed. All air and sound ratings shall be certified by AMCA. Units shall be U.L. listed.

**FF100 - FF1500**
Ventilator shall have galvanized steel housing insulated with at least 1/2" of acoustic insulation. Housing to have adjustable mounting brackets.

Automatic backdraft damper to be located within duct connector. Duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.

Blower assembly shall be removable from installed housing and will have a polymeric, dynamically balanced centrifugal-type blower wheel. Motor to be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each model.

Air delivery shall be no less and sound levels no greater than listed for each model. All air and sound ratings shall be certified by AMCA. Units to be UL and cUL listed.

**FFC100 - FFC 1500**
Ventilator shall have galvanized steel housing. Housing to have adjustable mounting brackets and removable panel to allow access to motor without disturbing ductwork.

Automatic backdraft damper to be located within duct connection. Duct connector, blower assembly and wiring plate shall be adjustable for either horizontal or vertical installation.

Blower unit shall be removable from housing and will have a polymeric, dynamically balanced centrifugal-type blower wheel. Motor to be permanently lubricated and mounted with resilient anti-vibration mounts. RPM not to exceed number listed for each model.

Air delivery shall be no less and sound levels no greater than listed for each model. All air and sound ratings shall be certified by AMCA. Units to be UL and cUL listed.

**Optisizer Selection Program**
Please refer to Breidert's Optisizer Program for fan curve, submittal information and other details of the FF/FFC series and other Breidert products. Contact your representative or factory for a copy. Visit Breidert's website for additional information at: www.breidert.com.

All specifications are subject to change without notice unless approved in submittal by Breidert Air Products.

**Breidert Limited Warranty**

Breidert Air Products (manufacturer), 6393 Powers Avenue, Jacksonville, Florida 32217, warrants equipment of its manufacture to be free from defects in design, materials and workmanship (exclusive of abrasion, corrosion or erosion) for one (1) year from the date of receipt or the date of shipment to the original purchaser or the date of notification of readiness to ship. Motor warranty is one (1) year. In order to claim the benefit of this warranty, buyer must notify manufacturer in writing of the claimed defect within ten (10) days after discovering it and return this equipment or parts to the factory with transportation prepaid. In the event of on-site repair, no service technician will be dispatched until manufacturer receives your written purchase order. If any of the following conditions exist, the warranty will be null and void: (1) Buyer has permitted other persons not approved or authorized by manufacturer to alter, adjust, replace or repair the equipment or any part thereof. (2) Buyer has not followed instructions or other directions given in the contract documents or our maintenance manual. (3) When breakage or other loss or damage is the result of any negligence, misuse or fault on the part of any operator or other person not under our supervision or control. (4) The defect is the result of designs or drawings made, furnished or specified by others. (5) In the case of goods not manufactured but supplied by the manufacturer as part of a contract, manufacturer shall only be liable to the same extent that our supplier is to manufacturer, not to exceed any liability manufacturer would have for warranty on our own equipment. (6) Buyer has not paid in full any invoices submitted to buyer which are due for payment. (7) Unusual wear and tear of the equipment.

Statements relating to the product, its use or installation made prior to the execution of the agreement, are not warranties except to the extent that the contrary is expressly set forth herein. It is understood that such statements were not intended to, and did not, form a part of the agreement; they were merely made in the course of negotiations of the parties.

**This Warranty is in Lieu of Any Other Express or Implied Warranties, Including Any Implied Warranty of Merchantability or Fitness for Any Particular Purpose. Our Sole and Exclusive Obligation Under This Warranty is to Repair or Replace Defective Equipment or Parts or, at Our Option, to Pay the Reasonable Cost of Repair or Replacement. Buyer Agrees That No Other Remedy (Including, But Not Limited To, Incidental or Consequential Damages, Damages for Lost Profits or Sales, or Damages for Injuries to Person or Property) Shall Be Available. Notwithstanding the Above, The Total Amount That May in Any Event Be Payable in Settlement of Liability, However Incurred, Shall Not Exceed the Contract Price.**
### FF Ceiling Ventilators

<table>
<thead>
<tr>
<th>MODEL</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>100</td>
<td>136 115 109 93 80 65 44 12</td>
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<td>640</td>
<td>120</td>
<td>23</td>
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<tr>
<td>150</td>
<td>181 161 157 141 122 124 114 94</td>
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<td>23</td>
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<td>200</td>
<td>231 214 210 196 186 177 165 144</td>
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<td>300</td>
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### Compact FF Ceiling Ventilators

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<tr>
<th>MODEL</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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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 fans 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.
### FFC INLINE/CABINET VENTILATORS

<table>
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<tr>
<th>MODEL</th>
<th>CFM / Sones at Static Pressure (PS - Inches of H₂O)</th>
<th>AMPS @ 60HZ/ Watts</th>
<th>RPM @ 1/8</th>
<th>Volts</th>
<th>Average Ship Wt. Lbs</th>
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<tr>
<td></td>
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<tr>
<td>200</td>
<td>205 196 195 190 185 175 158 135 96 47 1.8/127 865 120 23</td>
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<td></td>
<td>1.7 1.9 1.9 2.1 2.3 2.4 3.0 3.3 3.4 3.4</td>
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<tr>
<td>250</td>
<td>248 245 245 241 235 224 208 183 141 94 2.1/166 1005 120 23</td>
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<tr>
<td>300</td>
<td>300 294 293 285 274 259 243 214 168 113 2.6/212 1145 120 23</td>
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<td></td>
<td>2.9 3.0 3.1 3.3 3.4 3.5 3.6 3.7 4.0 3.9</td>
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<tr>
<td>400</td>
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<td>500</td>
<td>546 526 519 496 472 447 407 364 306 232 2.2/232 890 120 34</td>
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<td>700</td>
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</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.

### FFC CABINET VENTILATORS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CFM / Sones at Static Pressure (PS - Inches of H₂O)</th>
<th>AMPS @ 60HZ/ Watts</th>
<th>RPM @ 1/8</th>
<th>Volts</th>
<th>Average Ship Wt. Lbs</th>
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<td>10.3 9.8 9.4 9.0 8.6 9.1 8.9 7.0 6.7 -</td>
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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.
DIMENSIONAL DATA

CEILING VENTILATOR

**FF50**
- 3" ROUND DUCT CONNECTOR

**FF80**
- 4" ROUND DUCT CONNECTOR

**FF100 & 150**
- 6" ROUND DUCT CONNECTOR

**FF200, 250 & 300**
- 8" ROUND DUCT CONNECTOR

**FF400, 500 & 700**
- 4 1/2" x 18 1/2" 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

**FFC400, 500 & 700**
- 4 1/2" x 18 1/2" DUCT CONNECTOR

**FFC900 & 1500**
- 8" x 12" DUCT CONNECTOR

**FFC2000**

**FFC3500**
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 & birdscreen
• 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 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
**ACCESSORIES (cont.)**

**Speed Control**
- Adjust speed from 100 to 50%
- 3 amp, 5 amp & 10 amp - 120V
- 6 amp - 240V

**Model 611 Flat Roof Cap**
- For flat roof installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct

**Model 612 Flat Roof Cap**
- For flat roof installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct

**Model 611CM Curb Mount Roof Cap**
- For curb mount installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 8" round duct

**Model 612CM Curb Mount Roof Cap**
- For curb mount installation
- Aluminum - natural finish
- Built-in birdscreen
- For up to 12" round duct

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

**Models RDI, 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
- RDI (12 1/4" x 12 1/4") fits FF100 - FF300
- RD2 (21 1/2" x 18") fits FF400 - FF700
- RD3 (22" x 18") fits FF900 - FF1500

**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", 7" x 10 round) for use with FF400 thru FF700
- T81212 (8" x 12" to 12" round) for use with FF900 and FF1500

**Birdscreen Model RCXII - 18" and 20" units**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Est. Wt.</th>
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<td>29.1/2</td>
<td>18 5/8</td>
<td>2</td>
<td>35</td>
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<tr>
<td>20</td>
<td>32.3/4</td>
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# Optional Accessory Compatibility Chart

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<th>Variable Speed Controls</th>
<th>Ceiling Mount Model FF</th>
<th>In-Line/Cabinet Model FFC</th>
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<tbody>
<tr>
<td></td>
<td>FF50</td>
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<td>2727.1 (5 Amp 120V)</td>
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<td>2828.1 (10 Amp 120V)</td>
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<td>X</td>
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<td>77V (240V)</td>
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<td>X</td>
</tr>
<tr>
<td>277V (277V)</td>
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## Roof Caps
- 437
- 611, 611 CM
- 612, 612 CM
- 6346
- 644, 644
- 6346, 646 AL
- RCK II, 18
- RCK II, 20

## Wall Caps
- 441
- 613
- 641
- 642
- 643

## In-Line Adapters
- 961L
- 961L
- 962L
- 963L

## UL Radiation Dampers
- RD1
- RD2
- RD3

## Metal Grill Kit
- G102
- G103
- MGI

## Duct Transitions
- 423
- T81212

## Damper Kits
- D100
- D101

## Vibration Dampening Hangers (4)
- V102
- V104
Models FF50, 80, 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 INLNE/CABINET VENTILATORS QUICK SELECTION GUIDE

**FFC100, FFC150**

**FFC400, FFC500, FFC700**

**FFC2000, FFC3500**

**FFC200, FFC250, FFC300**

**FFC900, FFC1500**

**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 back-draft 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).
Breidert manufactures a complete line of gravity ventilators and fans for all your ventilation requirements.

**TYPE DB**
Backward Inclined Belt Drive Centrifugal Roof Exhaust

**TYPE RED**
Backward Inclined Direct Drive Solid State Speed Control

**TYPE SQB/SQD**
Backward Inclined Belt Drive/Direct Drive Square Inline

**TYPE UBB/UBX**
Propeller Belt and Direct Drive Upblast Roof Exhaust

**TYPE L**
Propeller Belt Drive Wall Exhaust or Supply

**TYPE BGH**
Gravity Hood Intake or Relief

**TYPE KSF**
Forward Curved Blower Belt Drive Filtered Roof Supply

**TYPE TXB/TXD**
Backward Inclined Belt Drive/Direct Drive Centrifugal Upblast

**TYPE BVS**
Backward Inclined Belt Drive Centrifugal Utility Set

Due to continuing research, Breidert reserves the right to change specifications without notice.

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