



# Fantech

*Fan Guide Book*

February 2004 – FB-0204



*Air in Motion*

FX Series FSD Series FR Series FRD Series FADE Series  
RVF Series RETC Series CVS Series FKD Series



# Find the Fan that Fits

Page by page, product by product, this Fantech Guide Book offers you ventilation solutions to meet a wide variety of residential and commercial requirements. Wherever you need air in motion – including kitchens, bathrooms, laundry rooms, hospitals, schools, office buildings, conference rooms and more – Fantech gives you whisper-quiet operation, solid dependability and true price-to-performance value. No matter the application, you’re sure to find the fan that fits your project.



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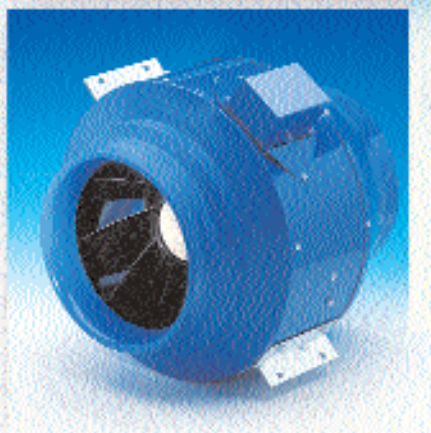
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**Fantech**  
Your Ventilation Solutions Company

# *Inline Centrifugal Fans for Round Duct*

*the ultimate in quality, quiet performance and cost efficiency*



*FR Series*

*FX Series*

*FKD Series*



## Fantech FR Series

### Versatility and Value

Fantech's versatile FR Series fans feature a plastic housing constructed of UL-recognized, UV-protected thermoplastic resin. This tough protective shell allows the fan to be mounted in outdoor and wet locations.\* Ideal for multiple point exhaust, dual bathroom exhaust, or new room additions, Fantech's FR Series fans are caulked at the motor screws, the wiring cables and along the seams of the fan to prevent moisture from entering the housing. Fantech's FR Series fans have long been the choice of residential builders and remodelers but now can be used for commercial projects with our recent UL commercial applications rating.

### Easy to install Loaded with features

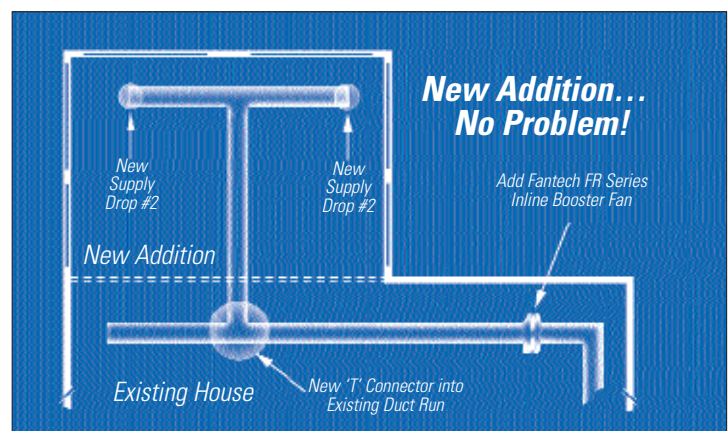
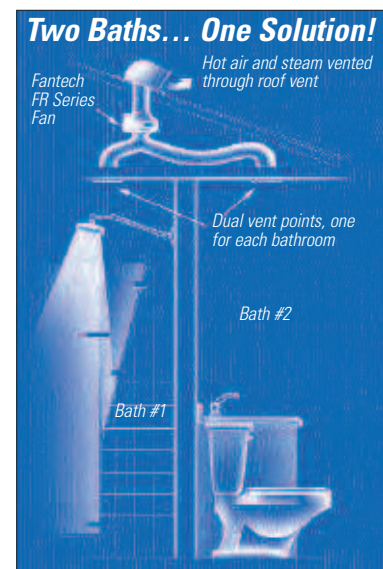
- Prewired and supplied with a mounting bracket for easy installation
- Available singularly with bracket or in a variety of kits for specific applications. Each kit includes the appropriate fan and accessories
- UL Listed; CSA Certified
- Approved for residential and commercial applications and for wet locations
- Suitable for airstream temperatures up to 140° F
- Easy connection using external wiring box with waterproof gasket
- 122-649 CFM
- 4" to 10" duct diameters
- 100% speed controllable
- Five-year factory warranty

Kits are available for the following applications:

- Regular Kits (REG 100 and REG 140) for single point exhaust applications
- Deluxe Kits (DLX 110, DLX 150, and DLX 200) designed for dual point exhaust applications
- Vent Light Kits (REG 100L, DLX 150L) for single and dual vent light exhaust applications



Typical attic installation



\* The FR Series is not manufactured to operate with water running through the motor compartment, or to be used in applications where the fan would be buried underground. A UL-recognized waterproof conduit should be used for all outdoor applications to prevent moisture entry via knockout in wiring box.

## FR Kits

Pictured from left to right: DLX150 – Dual Point Ventilation Kit; REG100L – Single Vent Light Kit. Additional kits (not pictured) are available.



DLX150



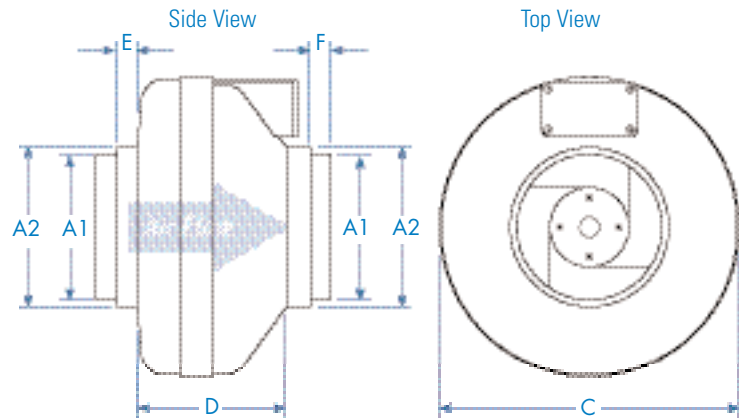
REG100L

## Specifications

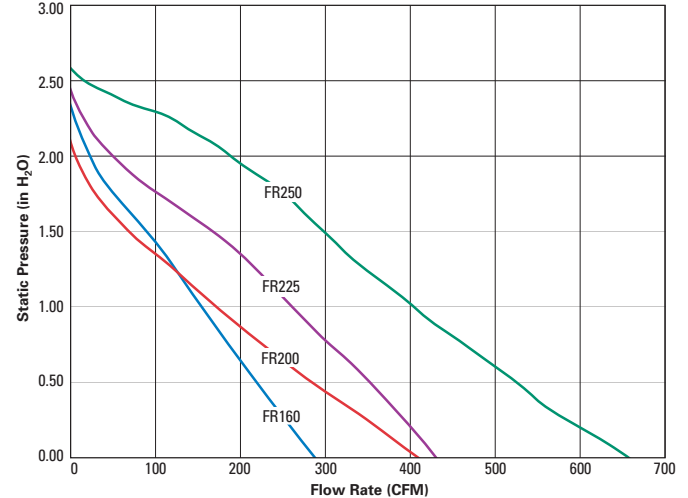
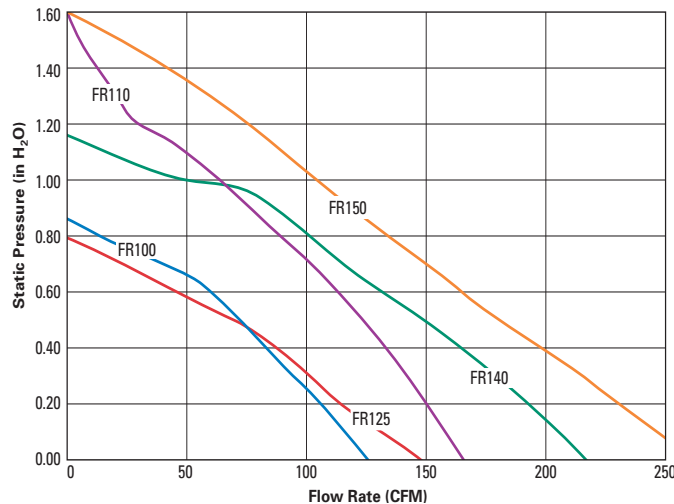
### FR Series Dimensional Data

| model  | †A1 | A2 | C   | D    | E   | F   |
|--------|-----|----|-----|------|-----|-----|
| FR 100 | 4   | 5  | 9½  | 6½   | 7⁄8 | 7⁄8 |
| FR 110 | 4   | 5  | 9½  | 6½   | 7⁄8 | 7⁄8 |
| FR 125 | —   | 5  | 9½  | 6½   | 7⁄8 | —   |
| FR 140 | 6   | 6¼ | 11¾ | 57⁄8 | 1   | 7⁄8 |
| FR 150 | 6   | 6¼ | 11¾ | 57⁄8 | 1   | 7⁄8 |
| FR 160 | 6   | 6¼ | 11¾ | 63⁄8 | 1   | 7⁄8 |
| FR 200 | 8   | 10 | 13¼ | 6¼   | 1½  | 1½  |
| FR 225 | 8   | 10 | 13¼ | 6¼   | 1½  | 1½  |
| FR 250 | —   | 10 | 13¼ | 6¼   | 1½  | —   |

All dimensions in inches. † Duct connections are 1/8" smaller than duct size.



### FR Series Air Performance Graphs



### FR Series Performance Data

| Fan Model | Energy Star | RPM  | Volts | Rated Watts | Wattage Range | Max. Amps | Static Pressure in Inches W.G. |     |     |     |     |      |      | Max. Ps | Duct Dia. |
|-----------|-------------|------|-------|-------------|---------------|-----------|--------------------------------|-----|-----|-----|-----|------|------|---------|-----------|
|           |             |      |       |             |               |           | 0"                             | .2" | .4" | .6" | .8" | 1.0" | 1.5" |         |           |
| FR 100    | ✓           | 2900 | 115   | 19          | 13 – 19       | 0.18      | 122                            | 100 | 78  | 55  | 15  | —    | —    | 0.87"   | 4"        |
| FR 110    | —           | 2900 | 115   | 80          | 62 – 80       | 0.72      | 167                            | 150 | 133 | 113 | 88  | 63   | 4    | 1.60"   | 4"        |
| FR 125    | ✓           | 2950 | 115   | 18          | 15 – 18       | 0.18      | 148                            | 120 | 88  | 47  | —   | —    | —    | 0.79"   | 5"        |
| FR 140    | ✓           | 2850 | 115   | 61          | 47 – 62       | 0.53      | 214                            | 190 | 162 | 132 | 99  | 46   | —    | 1.15"   | 6"        |
| FR 150    | ✓           | 2750 | 120   | 71          | 54 – 72       | 0.67      | 263                            | 230 | 198 | 167 | 136 | 106  | 17   | 1.58"   | 6"        |
| FR 160    | —           | 2750 | 115   | 129         | 103 – 130     | 1.14      | 289                            | 260 | 233 | 206 | 179 | 154  | 89   | 2.32"   | 6"        |
| FR 200    | ✓           | 2750 | 115   | 122         | 106 – 128     | 1.11      | 408                            | 360 | 308 | 259 | 213 | 173  | 72   | 2.14"   | 8"        |
| FR 225    | ✓           | 3100 | 115   | 137         | 111 – 152     | 1.35      | 429                            | 400 | 366 | 332 | 297 | 260  | 168  | 2.48"   | 8"        |
| FR 250    | —           | 2850 | 115   | 241         | 146 – 248     | 2.40      | 649                            | 600 | 553 | 506 | 454 | 403  | 294  | 2.58"   | 10"       |

FR Series performance is shown with ducted outlet. Per HVI's Certified Ratings Program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at .2 inches WG.



### *Hard working. Long lasting. Here's why:*

- Galvanized steel housing features baked powdercoat finish, perfect for commercial code applications
- Powered by external rotor motorized impeller for excellent heat dissipation, even at low RPM
- UL Listed; CSA Certified
- Suitable for airstream temperatures up to 140° F
- 4" to 12" circular duct diameters
- Airflow from 117-801 CFM
- External rotor motor, Class B insulation for long and maintenance-free operation
- Automatic reset thermal overload protection
- Permanently lubricated sealed ball bearings
- True airfoil backward curved impeller
- External wiring box for ease of connection
- 100% speed controllable
- Five-year factory warranty



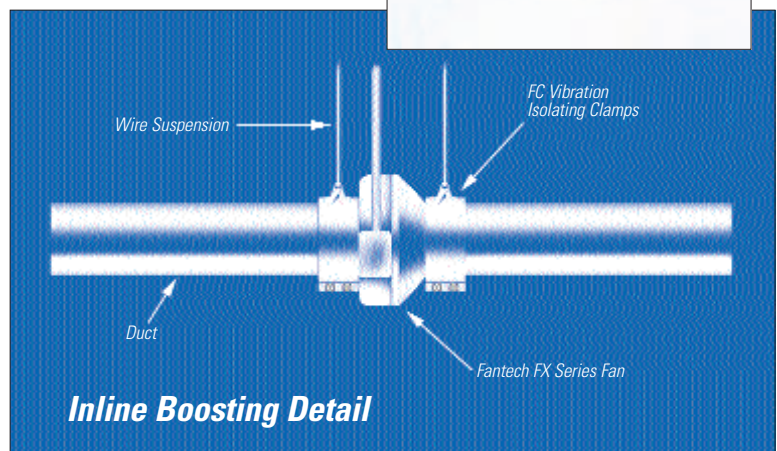
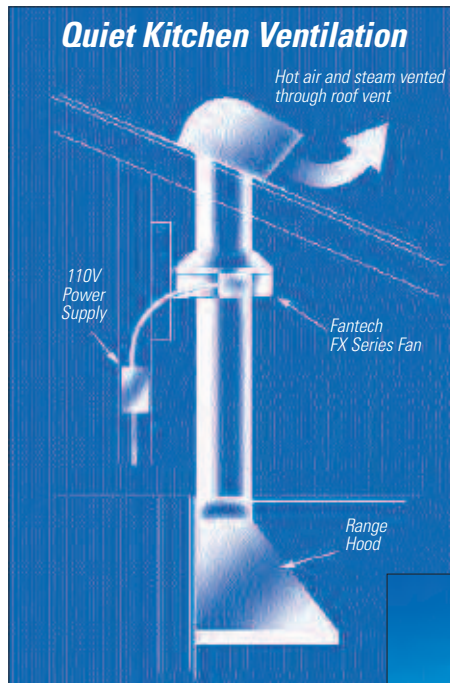
*Fantech external rotor motor*

## *Fantech FX Series*

### *From Residential to Commercial*

The Fantech FX Series' galvanized steel housing makes these fans ideal for various commercial code and residential applications. Home uses include range hood exhaust, duct boosting and bathroom exhaust. Office applications include intake, exhaust, filtration, return or makeup air systems that require mounting versatility, high efficiency, low sound levels, and ease of service.

Fantech FX Series fans are a snap to install. Prewired and supplied with a mounting bracket, they can be mounted at any angle in any point along the ductwork. Straight-through airflow design also helps simplify installation. FX Series fans are designed to work with standard dimensions of spiral duct, eliminating the need for transition pieces.

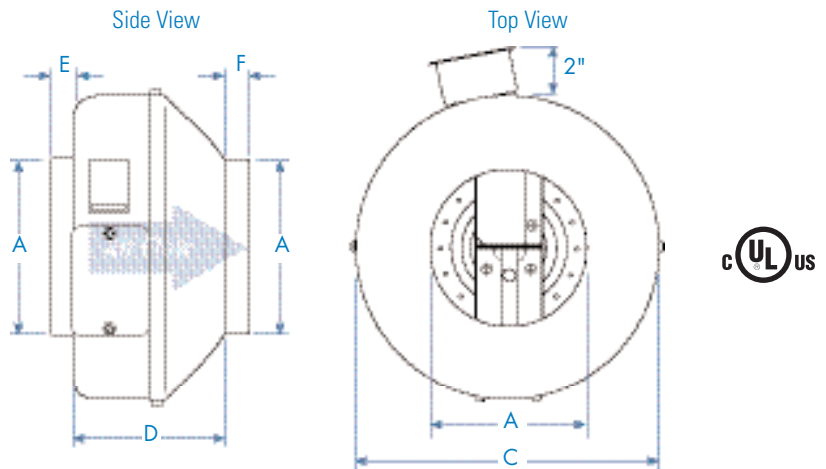


# Specifications

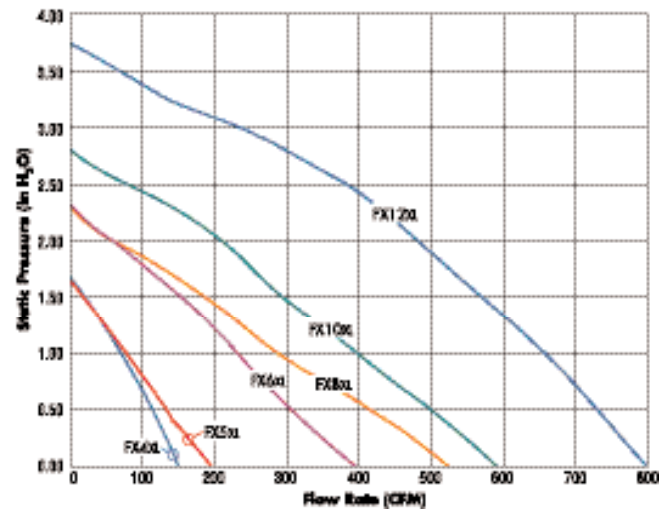
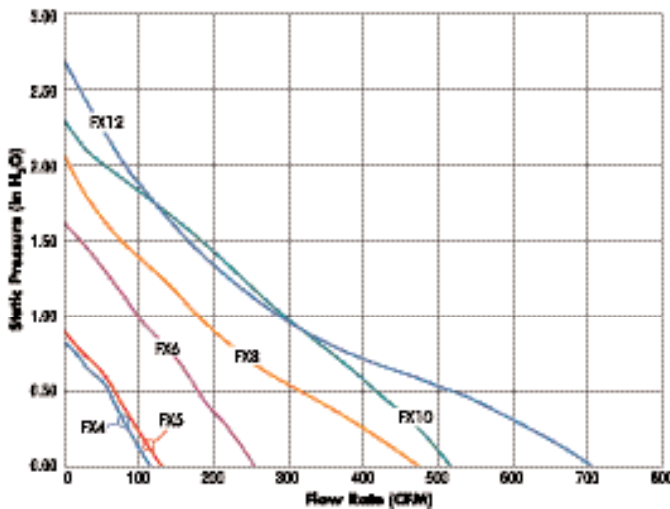
## FX Series Dimensional Data

| model   | †A | C   | D  | E   | F   |
|---------|----|-----|----|-----|-----|
| FX 4    | 4  | 8   | 5½ | 7⁄8 | 7⁄8 |
| FX 4XL  | 4  | 9½  | 5½ | 7⁄8 | ¾   |
| FX 5    | 5  | 8   | 5¼ | 7⁄8 | 7⁄8 |
| FX 5XL  | 5  | 9½  | 5  | 7⁄8 | 1   |
| FX 6    | 6  | 11½ | 6  | ¾   | 7⁄8 |
| FX 6XL  | 6  | 13¼ | 6½ | 1   | ¾   |
| FX 8    | 8  | 13¼ | 6¼ | 1   | 7⁄8 |
| FX 8XL  | 8  | 13¼ | 6¼ | 1   | 7⁄8 |
| FX 10   | 10 | 13¼ | 6¼ | 1   | 1¼  |
| FX 10XL | 10 | 13¼ | 6¼ | 1   | 1¼  |
| FX 12   | 12 | 16  | 8¼ | 1   | 1¼  |
| FX 12XL | 12 | 16  | 8¼ | 1   | 1¼  |

All dimensions in inches. † Duct connections are 1/8" smaller than duct size.



## FX Series Air Performance Graphs



## FX Series Performance Data (For sound performance data refer to publication #FX-0799)

| Fan Model | RPM  | Volts | Max. Watts | Max. Amps | Static Pressure in Inches W.G. |       |      |       |     |      |      |       |      | Max. Ps | Duct Dia. |
|-----------|------|-------|------------|-----------|--------------------------------|-------|------|-------|-----|------|------|-------|------|---------|-----------|
|           |      |       |            |           | 0"                             | .125" | .25" | .375" | .5" | .75" | 1.0" | 1.25" | 1.5" |         |           |
| FX 4      | 2950 | 115   | 19         | 0.17      | 117                            | 101   | 86   | 72    | 58  | —    | —    | —     | —    | 0.81"   | 4"        |
| FX 4XL    | 2800 | 115   | 83         | 0.73      | 148                            | 139   | 130  | 120   | 111 | 90   | 68   | 42    | —    | 1.65"   | 4"        |
| FX 5      | 2950 | 115   | 19         | 0.17      | 132                            | 115   | 98   | 81    | 65  | —    | —    | —     | —    | 0.89"   | 5"        |
| FX 5XL    | 2650 | 115   | 87         | 0.76      | 191                            | 175   | 161  | 146   | 131 | 102  | 75   | 45    | —    | 1.61"   | 5"        |
| FX 6      | 2700 | 115   | 84         | 0.74      | 257                            | 241   | 221  | 197   | 178 | 143  | 99   | 59    | —    | 1.60"   | 6"        |
| FX 6XL    | 2950 | 115   | 147        | 1.26      | 392                            | 368   | 346  | 326   | 305 | 263  | 228  | 191   | 150  | 2.27"   | 6"        |
| FX 8      | 2600 | 115   | 116        | 1.02      | 481                            | 444   | 403  | 361   | 319 | 237  | 177  | 130   | 76   | 2.04"   | 8"        |
| FX 8XL    | 2950 | 115   | 152        | 1.31      | 521                            | 496   | 469  | 440   | 411 | 345  | 282  | 231   | 180  | 2.29"   | 8"        |
| FX 10     | 3000 | 115   | 147        | 1.27      | 521                            | 499   | 475  | 448   | 418 | 357  | 293  | 234   | 176  | 2.28"   | 10"       |
| FX 10XL   | 3000 | 115   | 242        | 2.11      | 590                            | 565   | 541  | 519   | 496 | 442  | 394  | 339   | 290  | 2.79"   | 10"       |
| FX 12     | 2450 | 115   | 196        | 1.70      | 711                            | 675   | 627  | 576   | 521 | 382  | 284  | 220   | 166  | 2.65"   | 12"       |
| FX 12XL   | 3250 | 115   | 373        | 3.21      | 801                            | 783   | 765  | 747   | 729 | 692  | 655  | 611   | 566  | 3.69"   | 12"       |

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.



Fantech, Inc. certifies that the FX Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

## Fantech FKD Series

### Inline Mixed Flow Duct Fans

With Fantech's FKD Series fans, "going with the flow" has never been easier. These fans are specifically designed to bridge the transition between centrifugal and axial by combining the high flow of axial designs with the higher pressure, non-overloading characteristics of backward curved impellers. Fantech's "The Straight Way" inline designs minimize system losses while being extremely compact.

The round inline design keeps air moving in ductwork sized from 8" to 20". 100% speed controllability gives extreme flexibility where there is need for varying airflow.

The lightweight, compact design FKD Series fans mount at any angle, at any point along the ductwork.

### A balancing act that's easy to perform

With FKD Series fans, system balancing is achieved by measuring the system flow or pressure and adjusting the fan performance by "dialing in" or setting the fan speed using inexpensive solid state speed controls, transformers or VFDs. Direct drive eliminates the need for continuous belt alignment, tension adjustment and ongoing maintenance.

#### FYI:

#### FKD's performance features:

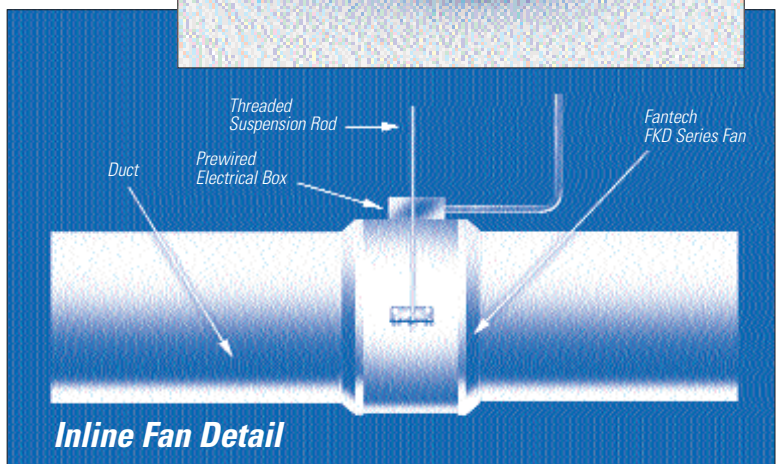
- Galvanized steel housing features baked powdercoat finish
- External rotor motor with built-in thermal overload protection and automatic reset
- UL Listed
- Suitable for airstream temperatures up to 140° F
- Permanently lubricated sealed ball bearings
- 100% speed controllable for highly efficient and economical airflow
- Airflow up to 6291 CFM
- Terminal box with prewired electrical strip
- Mixed flow impeller
- Excellent heat dissipation to ensure long motor life
- Three-year warranty



*Fantech's FKD external rotor motor – built to last.*

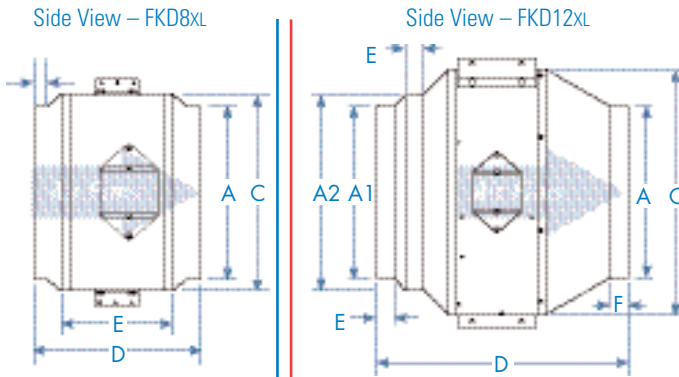
*Fans pictured: Top—FKD12XL; Left—FKD10; and Bottom—FKD12S.*

*Transparent view of a FKD 10*



# Specifications

## FKD Series Dimensional Data



| model    | A  | C   | D   | E |
|----------|----|-----|-----|---|
| FKD 8XL  | 8  | 12½ | 15½ | 7 |
| FKD 10   | 10 | 12½ | 12½ | 7 |
| FKD 10XL | 10 | 14  | 15  | 8 |
| FKD 12s  | 12 | 12½ | 10  | 7 |
| FKD 12   | 12 | 14  | 12½ | 8 |
| FKD 14s  | 14 | 14  | †   | 8 |

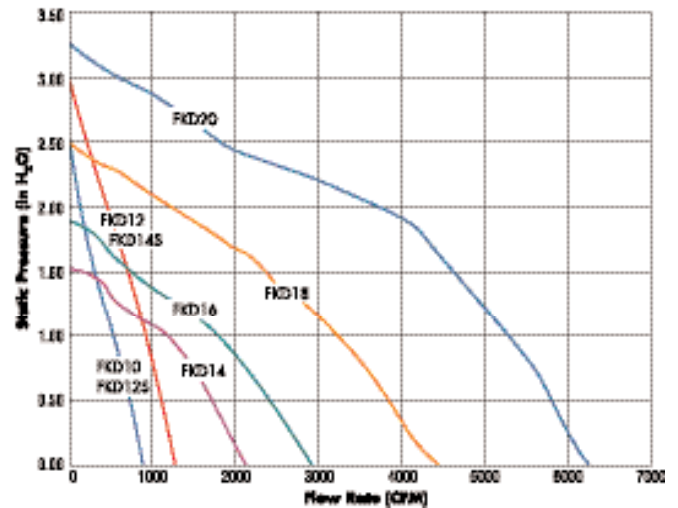
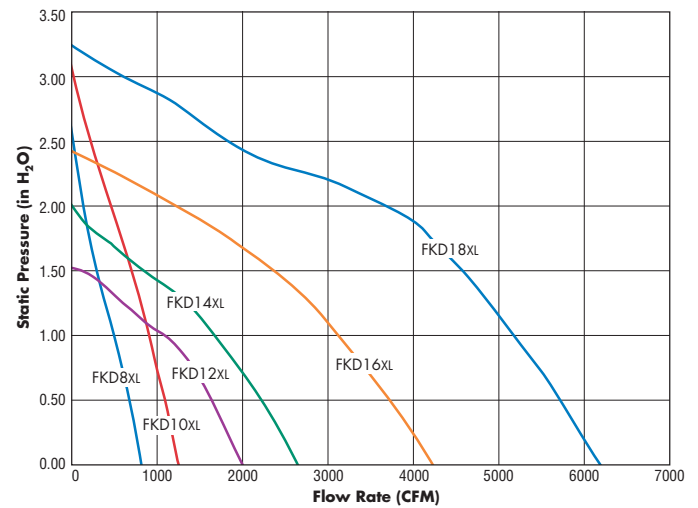
All dimensions in inches.  
† FKD 14s overall length is 8".

| model    | A  | A1 | A2 | C   | D   | E  | F  |
|----------|----|----|----|-----|-----|----|----|
| FKD 12XL | 12 | 12 | 14 | 17⅞ | 18⅞ | 7⅞ | 1⅞ |
| FKD 14   | 14 | 12 | 14 | 17⅞ | 17¼ | 1  | 1⅞ |
| FKD 14XL | 14 | 14 | 16 | 19¾ | 20¼ | 1½ | 1¾ |
| FKD 16   | 16 | 14 | 16 | 19¾ | 18¾ | 1½ | 1⅞ |
| FKD 16XL | 16 | 16 | 18 | 22½ | 23¼ | 1¼ | 1⅞ |
| FKD 18   | 18 | 16 | 18 | 22½ | 21¾ | 1¼ | 1⅞ |
| FKD 18XL | 18 | 18 | 20 | 28¼ | 29¼ | 2  | 1¾ |
| FKD 20   | 20 | 18 | 20 | 28¼ | 27¼ | 2  | 1¾ |

All dimensions in inches



## FKD Air Performance Graphs



## FKD Series Performance Data (For sound performance data refer to publication #FKD-0803 and FKD-1100/2)

| Fan Model | RPM  | Volts | Max. Watts | Max. Amps          | Static Pressure in Inches W.G. |       |      |       |      |      |      |       |      |      | Max. Ps. | Duct Dia. | Sones |
|-----------|------|-------|------------|--------------------|--------------------------------|-------|------|-------|------|------|------|-------|------|------|----------|-----------|-------|
|           |      |       |            |                    | 0"                             | .125" | .25" | .375" | .5"  | .75" | 1.0" | 1.25" | 1.5" | 2.0" |          |           |       |
| FKD 8XL   | 2700 | 115   | 327        | 2.99 <sup>1</sup>  | 836                            | 799   | 761  | 720   | 680  | 595  | 499  | 393   | 286  | —    | 2.59"    | 8"        | 14.1  |
| FKD 10    | 2700 | 115   | 329        | 3.01 <sup>1</sup>  | 910                            | 873   | 836  | 795   | 752  | 653  | 547  | 432   | 342  | —    | 2.60"    | 10"       | 15.3  |
| FKD 10XL  | 2850 | 115   | 529        | 4.84 <sup>2</sup>  | 1266                           | 1226  | 1187 | 1147  | 1100 | 1006 | 911  | 810   | 696  | 460  | 3.08"    | 10"       | 21    |
| FKD 12s   | 2700 | 115   | 323        | 2.95 <sup>1</sup>  | 930                            | 889   | 848  | 804   | 758  | 657  | 550  | 443   | 343  | —    | 2.54"    | 12"       | 15.2  |
| FKD 12    | 2900 | 115   | 531        | 4.86 <sup>2</sup>  | 1305                           | 1266  | 1228 | 1189  | 1145 | 1054 | 948  | 833   | 712  | 479  | 3.08"    | 12"       | 23    |
| FKD 12XL  | 1700 | 115   | 500        | 4.80 <sup>2</sup>  | 2016                           | 1920  | 1832 | 1746  | 1649 | 1423 | 1066 | 606   | —    | —    | 1.52"    | 12"       | 18.7  |
| FKD 14s   | 2900 | 115   | 525        | 4.81 <sup>2</sup>  | 1305                           | 1261  | 1218 | 1174  | 1125 | 1025 | 923  | 814   | 703  | 469  | 3.12"    | 14"       | 23    |
| FKD 14    | 1700 | 115   | 495        | 4.76 <sup>2</sup>  | 2156                           | 2061  | 1965 | 1868  | 1764 | 1520 | 1193 | 623   | —    | —    | 1.52"    | 14"       | 18.4  |
| FKD 14XL  | 1550 | 115   | 738        | 7.12 <sup>2</sup>  | 2619                           | 2517  | 2416 | 2303  | 2180 | 1936 | 1662 | 1294  | 843  | —    | 1.94"    | 14"       | 19.0  |
| FKD 16    | 1600 | 115   | 742        | 6.39 <sup>2</sup>  | 2952                           | 2831  | 2707 | 2580  | 2445 | 2144 | 1804 | 1306  | 774  | —    | 1.90"    | 16"       | 18.5  |
| FKD 16XL  | 1600 | 115   | 1421       | 12.40 <sup>3</sup> | 4274                           | 4144  | 4014 | 3880  | 3743 | 3452 | 3137 | 2794  | 2379 | 1242 | 2.42"    | 16"       | 25    |
| FKD 18    | 1600 | 115   | 1411       | 12.04 <sup>3</sup> | 4448                           | 4992  | 4130 | 3991  | 3871 | 3583 | 3239 | 2843  | 2380 | 1231 | 2.51"    | 18"       | 24    |
| FKD 18XL  | 1700 | 460/3 | 2208       | 3.75               | 6236                           | 6115  | 5995 | 5874  | 5754 | 5500 | 5199 | 4909  | 4602 | 3703 | 3.24"    | 18"       | 32    |
| FKD 20    | 1750 | 460/3 | 2218       | 3.73               | 6291                           | 6174  | 6054 | 5933  | 5829 | 5617 | 5307 | 4987  | 4667 | 3757 | 3.27"    | 20"       | 33    |



Fantech, Inc. certifies that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream. <sup>1</sup> The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. All sone values shown are calculated at 0.5" (static pressure in inches W.G.).

Note: Three phase motors are wound for 230/460 volt. Motors are prewired for 460 volts but may be delivered as 230 volt or may be rewired in the field.

<sup>1</sup> Recommended speed control rating 5A. <sup>2</sup> Recommended speed control rating 10A. <sup>3</sup> Recommended speed control rating 15A.

# *Inlet and Exhaust Accessories*

*Adjustable Metal Grills—MGE  
Adjustable Plastic Grills—PGE*



*Designer Grills—DG*



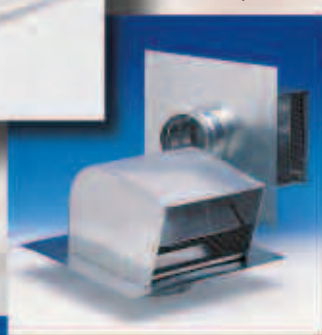
*Adjustable Supply Grills—PGS*



*Soffit Vent—UEV*



*Roof Caps—RC*



*Vent Light Combination Grill—VLC*



▲ *Intake Guards—IG*

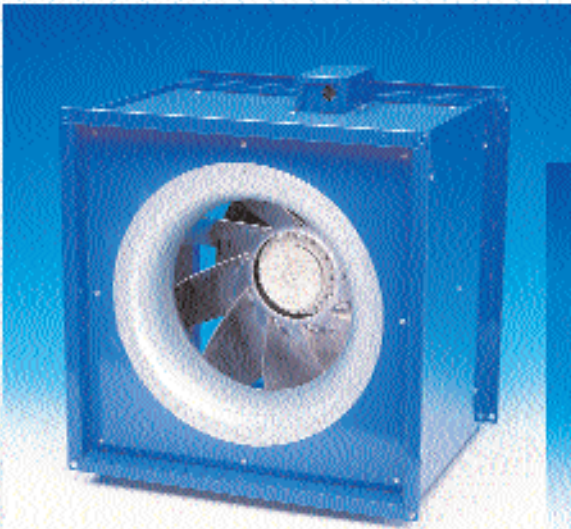


*Louvered Shutters—VK & HS*



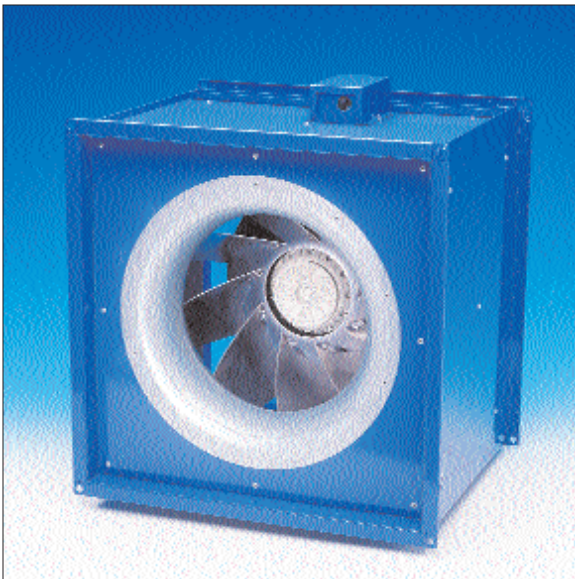
# *Inline Centrifugal Fans for Square and Rectangular Duct*

*the solid choice for commercial strength with economical operation*



*FSD Series*

*FRD Series*



## Fantech FSD Series

### *Their performance is a balancing act*

Our FSD Series fans offer substantially quieter performance, simpler installation and easier system balancing than other arrangements. The mixed flow centrifugal type exhaust/supply fan is specifically designed to bridge the transition from axial to centrifugal by combining the high flow of axial designs with higher pressure, non-overloading characteristics of backward curved impellers. Fantech's "The Straight Way" inline designs minimize system losses while being extremely compact.

The square inline design keeps air moving in larger ductwork from 18" to 26" square duct dimensions. 100% speed controllability gives extreme flexibility where there is need for varying airflow.

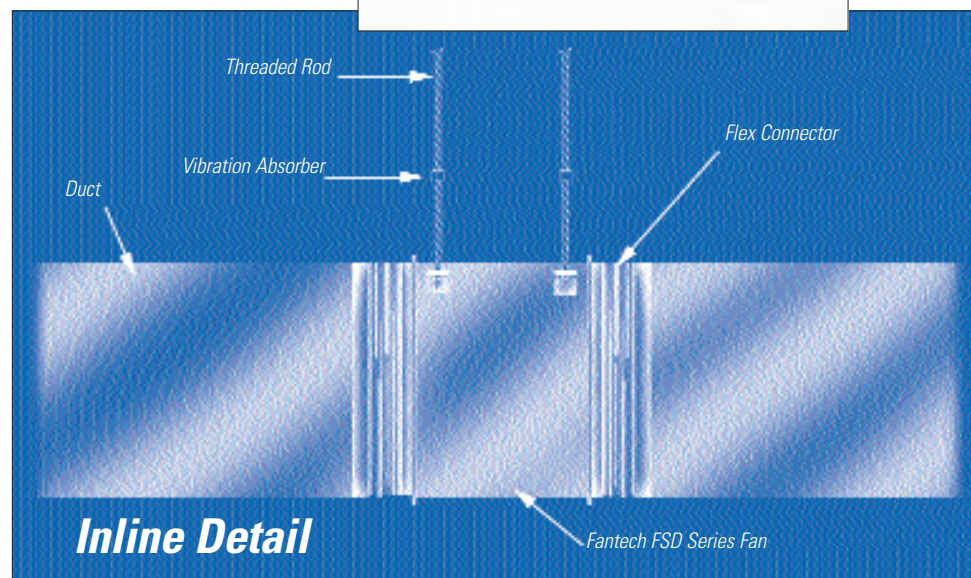
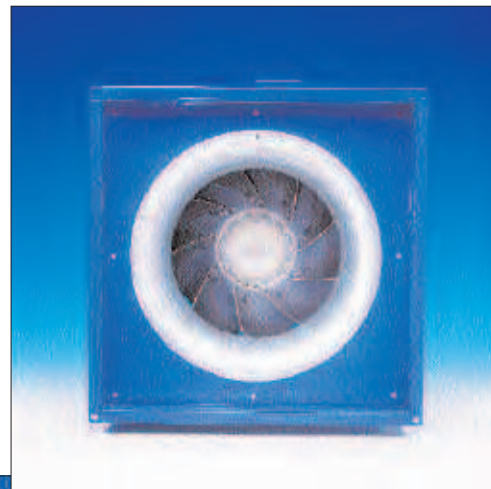
### *Total control for optimum results*

With FSD Series fans, system balancing is achieved by measuring the system flow or pressure and adjusting the fan performance by "dialing in" or setting the fan speed using inexpensive solid state speed controls, transformers or VFDs. Direct drive eliminates the need for continuous belt alignment, tension adjustment and ongoing maintenance.

### *FSD fans are trouble-free Here are just a few reasons:*

- Lightweight square design provides a larger discharge area and quieter operation
- Straight-through airflow design allows easy installation; no installation extras required. Can be mounted at any angle, anywhere along ductwork
- Galvanized steel housing features baked powdercoat finish
- Permanently lubricated sealed ball bearings
- 100% speed control for highly efficient and economical airflow
- Airflow up to 6993 CFM
- 18" to 26" square duct dimensions
- External rotor motor, Class B insulation. Sufficient service factor provided to ensure long and maintenance-free operation over maximum load conditions
- Automatic reset thermal overload protection
- Excellent heat dissipation, ensuring long motor life
- Terminal box with pre-wired electrical strip
- Mixed flow impeller design incorporates high flow with higher pressure, non-overloading characteristics and automatic reset thermal overload protection
- Suitable for airstream temperatures of up to 140° F
- UL Listed
- Three-year warranty

*FSD Series fan air intake view.*

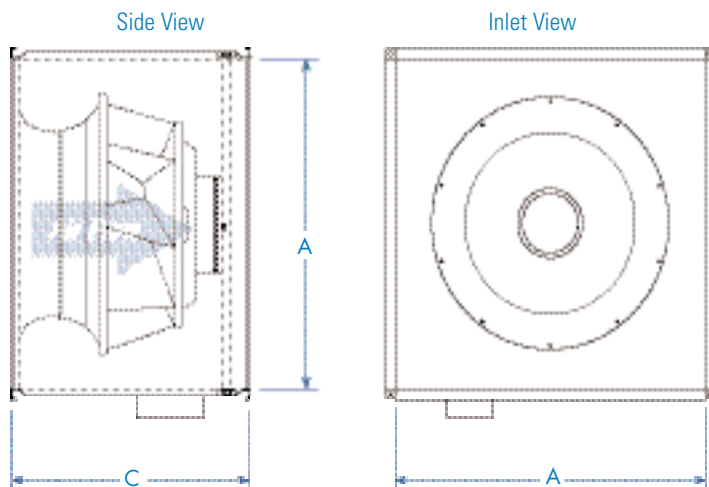


# Specifications

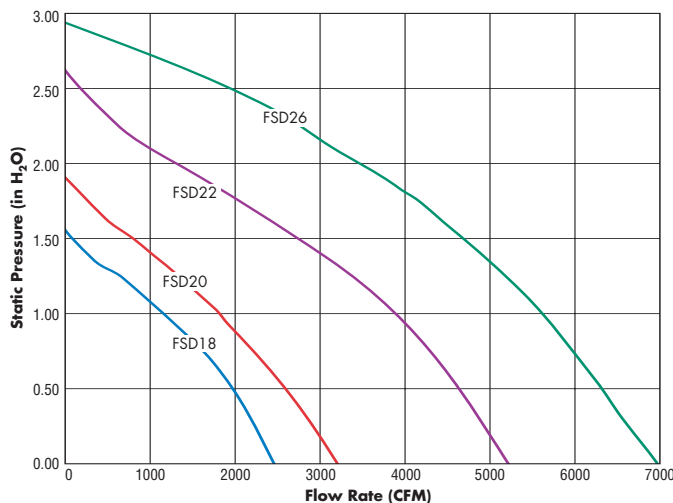
## FSD Series Dimensional Data

| model  | A                  | C                  |
|--------|--------------------|--------------------|
| FSD 18 | 17 $\frac{1}{8}$ " | 15 $\frac{1}{4}$ " |
| FSD 20 | 19 $\frac{1}{4}$ " | 17 $\frac{1}{4}$ " |
| FSD 22 | 21 $\frac{1}{2}$ " | 19"                |
| FSD 26 | 26"                | 20"                |

All dimensions in inches.  
Note: Flanges extend  $\frac{7}{8}$ " beyond the A dimension.



## FSD Air Performance Graph



Fantech, Inc. certifies that the FSD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## FSD Series Performance Data (For sound performance data refer to publication #FSD-0303)

| Fan Model | RPM  | Volts | Max. Watts | Max. Amps          | Static Pressure in Inches W.G. |       |      |       |      |      |      |       |      |      |      | Max. Ps. | Duct Dim.* | †Sones          |
|-----------|------|-------|------------|--------------------|--------------------------------|-------|------|-------|------|------|------|-------|------|------|------|----------|------------|-----------------|
|           |      |       |            |                    | 0"                             | .125" | .25" | .375" | .5"  | .75" | 1.0" | 1.25" | 1.5" | 2.0" | 2.5" |          |            |                 |
| FSD 18    | 1700 | 115   | 517        | 4.80 <sup>2</sup>  | 2463                           | 2349  | 2237 | 2126  | 1987 | 1644 | 1180 | 658   | —    | —    | —    | 1.57"    | 18"        | 12.4            |
| FSD 20    | 1600 | 115   | 753        | 6.36 <sup>2</sup>  | 3225                           | 3073  | 2921 | 2766  | 2605 | 2241 | 1829 | 1341  | 815  | —    | —    | 1.92"    | 20"        | 14.1            |
| FSD 22    | 1600 | 115   | 1554       | 15.00 <sup>2</sup> | 5223                           | 5070  | 4918 | 4766  | 4605 | 4282 | 3865 | 3337  | 2716 | 1308 | 235  | 2.62"    | 22"        | 21              |
| FSD 26    | 1700 | 460/3 | 2328       | 3.82               | 6993                           | 6818  | 6644 | 6473  | 6317 | 5981 | 5608 | 5177  | 4681 | 3469 | 1937 | 2.94"    | 26"        | 27 <sup>†</sup> |

Performance shown is for installation type A - Free inlet, free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

\* FSD Fans are square and duct dimensions are the same for width and height.

† The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet fan sone levels. All sone values are calculated at 0.5" (static pressure in inches W.G.).

‡ Sone Value at 0.75" (static pressure in inches W.G.).

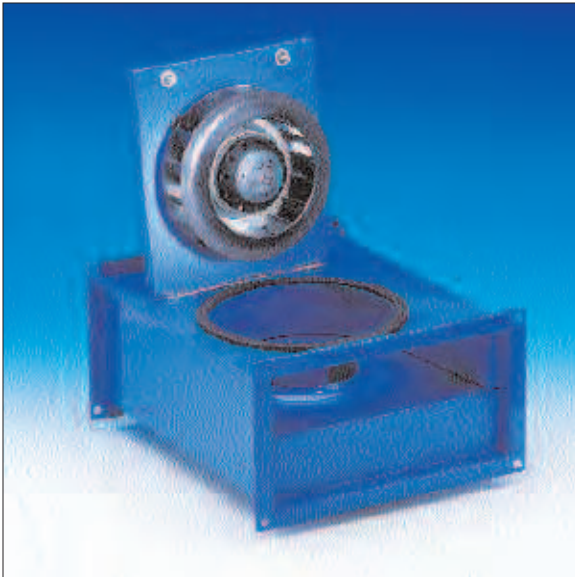
Note: Three phase motors are wound for 230/460 volt. Motors are prewired for 460 volts but may be delivered as 230 volt or may be rewired in the field.

<sup>2</sup> Recommended speed control rating 10A. <sup>3</sup> Recommended speed control rating 15A.

## External Rotor Motors

All FSD Series fans utilize our unique external rotor motors. The motor's totally enclosed design allows the fan to operate in high moisture, lint and dust laden air. The motors are a permanent split capacitor type, with automatic reset thermal overload protection and sealed ball bearings. These features ensure long life and maintenance free operation. All motors and impellers are designed as one integral unit, allowing for excellent motor heat dissipation, even at a low RPM.





*Fantech FRD12-6, open view.*

### ***Maintenance made easy thanks to these FRD features:***

- Galvanized steel housing features baked powdercoat finish
- Hinged door for service access
- External rotor motor for excellent heat dissipation even at low RPM, and built-in thermal overload protection with automatic reset.
- Suitable for airstream temperatures of up to 140° F
- UL Listed
- Class B insulation and sufficient service factor provided to ensure long and maintenance free operation over maximum load conditions
- 100% speed controllable through voltage reduction, allowing for precision balancing of systems, and efficient, economical airflow
- Units can be provided with 115/1/60 or 208-230/1/60
- Permanently lubricated sealed ball bearings
- Airflow up to 2318 CFM
- Rectangular ductwork connections
- Terminal box with prewired electrical strip
- True airfoil backward curved impeller
- Excellent heat dissipation, ensuring long motor life
- Three-year warranty

## ***Fantech FRD Series***

### ***Maximum power in a minimum of space***

Limited space? No problem. Fantech's FRD Series centrifugal type exhaust/supply fans are specifically designed for large ventilation needs where space is at a premium, such as hospitals, schools, or office buildings. System balancing is easy. A simple speed adjustment equalizes all vents to compensate for hot or cold spots.

### ***Direct-to-duct installation***

The compact housing design of the FRD Series allows for installation directly within rectangular ductwork (ranging from 12"x 6" ducts to 24"x 14" ducts), without the need for large elbows or transitional sections.

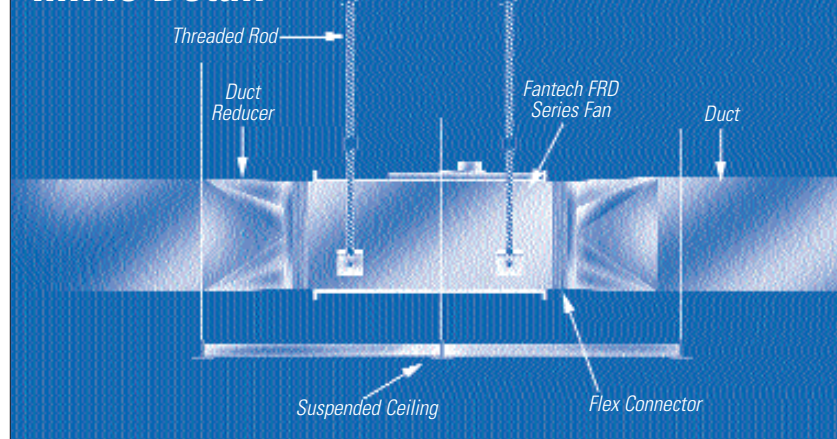
FRD Series fans are simple to install; no extra materials are required. Simply mount the fan at any angle in any point in the ductwork. The motor is mounted on a hinged door—just swing the door out for easy access to the motor and wiring connections.



*Fantech FRD24-14 open and closed views.*



### ***Inline Detail***



# Specifications

## FRD Series Dimensional Data

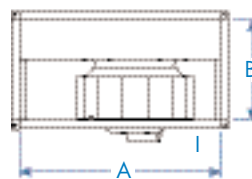
| model      | A                | B                | C                | D  |
|------------|------------------|------------------|------------------|----|
| FRD 12-6   | 11 $\frac{7}{8}$ | 5 $\frac{7}{8}$  | 15 $\frac{3}{4}$ | 11 |
| FRD 16-8   | 15 $\frac{3}{4}$ | 7 $\frac{3}{4}$  | 19 $\frac{3}{4}$ | 15 |
| FRD 16-8XL | 15 $\frac{3}{4}$ | 7 $\frac{3}{4}$  | 19 $\frac{3}{4}$ | 15 |
| FRD 20-10  | 19 $\frac{5}{8}$ | 9 $\frac{3}{4}$  | 20 $\frac{5}{8}$ | 18 |
| FRD 24-14  | 23 $\frac{3}{8}$ | 13 $\frac{3}{4}$ | 28 $\frac{1}{2}$ | 20 |

All dimensions in inches. Note: Flanges extend  $\frac{7}{8}$ " beyond A dimension.

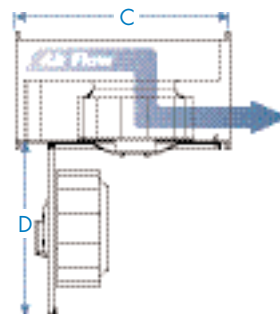


Fantech, Inc. certifies that the FRD Series shown here-in is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

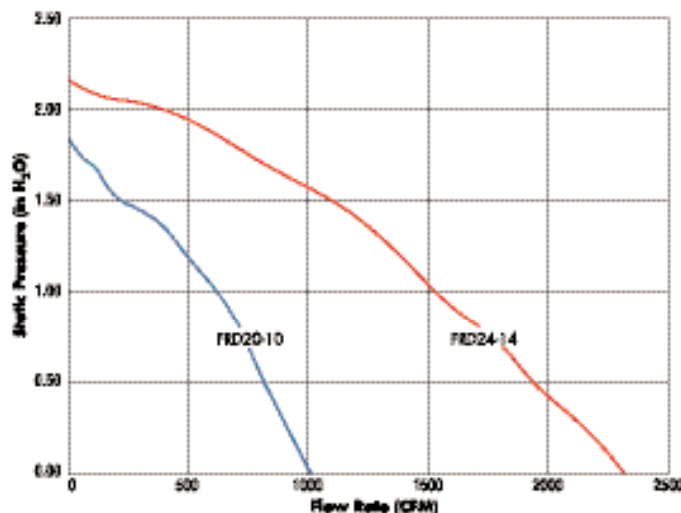
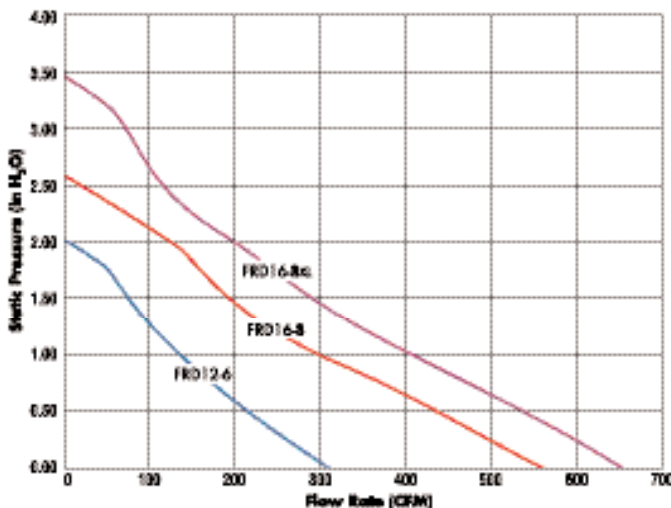
Exhaust View



Side View



## FRD Air Performance Graphs



## FRD Series Performance Data (For sound performance data refer to publication #FRD-0899)

| Fan Model  | RPM  | Volts | Max. Watts | Max. Amps         | Static Pressure in Inches W.G. |       |      |       |      |      |      |       |      |      |      | Max. Ps. | Duct Dimension | †Sones |
|------------|------|-------|------------|-------------------|--------------------------------|-------|------|-------|------|------|------|-------|------|------|------|----------|----------------|--------|
|            |      |       |            |                   | 0"                             | .125" | .25" | .375" | .5"  | .75" | 1.0" | 1.25" | 1.5" | 2.0" | 2.5" |          |                |        |
| FRD 12-6   | 2550 | 115   | 84         | 0.74 <sup>1</sup> | 309                            | 287   | 262  | 238   | 214  | 171  | 133  | 101   | 75   | —    | —    | 2.01"    | 12" x 6"       | 8.0    |
| FRD 16-8   | 2950 | 115   | 150        | 1.30 <sup>1</sup> | 560                            | 530   | 499  | 467   | 434  | 368  | 300  | 240   | 191  | 119  | —    | 2.57"    | 16" x 8"       | 13.0   |
| FRD 16-8XL | 2800 | 115   | 264        | 2.32 <sup>1</sup> | 658                            | 629   | 599  | 568   | 535  | 471  | 406  | 346   | 290  | 196  | 114  | 3.44"    | 16" x 8"       | †13.1  |
| FRD 20-10  | 1650 | 115   | 191        | 1.68 <sup>1</sup> | 1013                           | 963   | 915  | 868   | 814  | 724  | 617  | 462   | 225  | —    | —    | 1.84"    | 20" x 10"      | 16.7   |
| FRD 24-14  | 1650 | 115   | 597        | 5.18 <sup>2</sup> | 2318                           | 2237  | 2149 | 2039  | 1939 | 1752 | 1527 | 1332  | 1090 | 377  | —    | 2.16"    | 24" x 14"      | †18.2  |

Performance shown is for installation type D - ducted inlet, ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

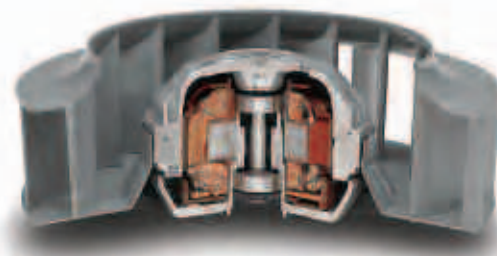
<sup>1</sup> The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet fan sone levels. Ratings do not include the effect of duct end correction. Sone values shown was calculated at 0.5". (static pressure in inches W.G.).

<sup>2</sup> Sone value shown was calculated at 0.75" (static pressure in inches W.G.).

<sup>1</sup> Recommended speed control rating 5A. <sup>2</sup> Recommended speed control rating 10A.

## External Rotor Motors

All FRD Series fans utilize our unique external rotor motors. The motor's totally enclosed design allows the fan to operate in high moisture, lint and dust laden air. The motors are a permanent split capacitor type, with automatic reset thermal overload protection and sealed ball bearings. These features ensure long life and maintenance free operation. All motors and impellers are designed as one integral unit, allowing for excellent motor heat dissipation, even at a low RPM.



# Inline Duct Accessories

*Iris Dampers—IR*



*Wye Connectors—FY* ▶



*Flex Duct—FIDT*

*Duct Silencers—LD*



*Noise Reduction  
Clamps—FC*



*Duct Clamp—CB*



◀ *Duct Reducers—CKR*



◀ *Backdraft  
Damper—RSK*



# *Exterior-Mounted Centrifugal Fans for Wall and Roof*

*specific solutions for outdoor installations*



*RE Series*

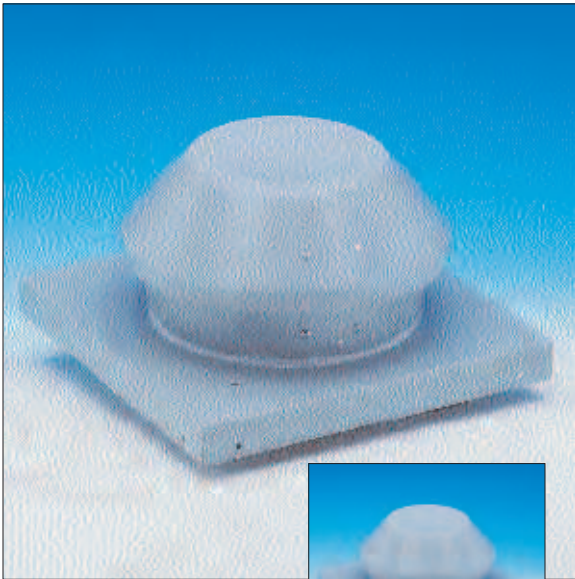
*REC Series*

*RVF Series*

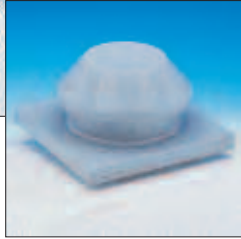
## Fantech RE Series

### Roof/Wall Mounted Centrifugal Fans

When space is tight, Fantech's RE Series is the solution. With a lightweight, low profile design, and duct diameters from 6" to 10", RE Series fans move a lot of air from one or more venting points. For roof mounting, these fans are available as either a flat plate or with a roof curb design. RE Series fans can also be mounted on an exterior wall when roof access is not suitable. An added benefit is whisper-quiet interior noise levels (depending on type of installation).



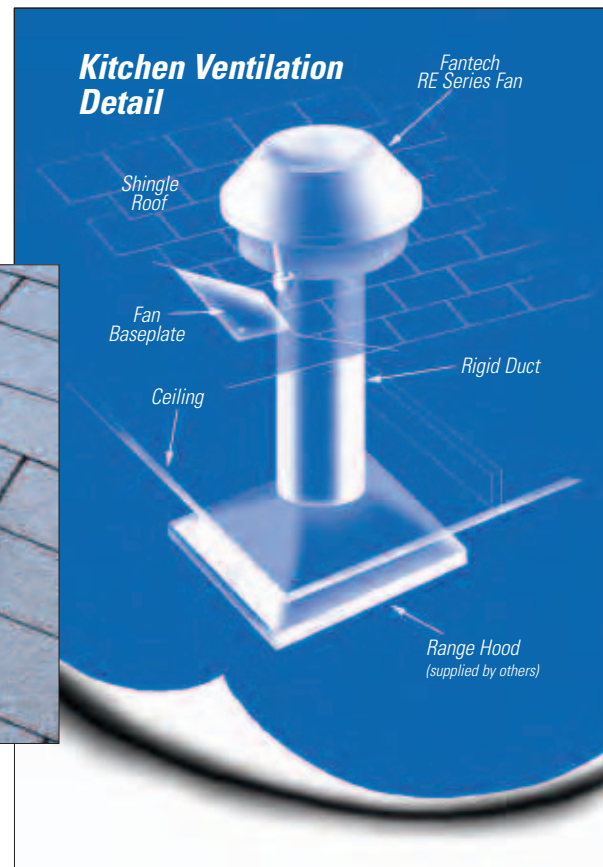
Fantech RE Series



Fantech REC Series

### Built tough inside and out:

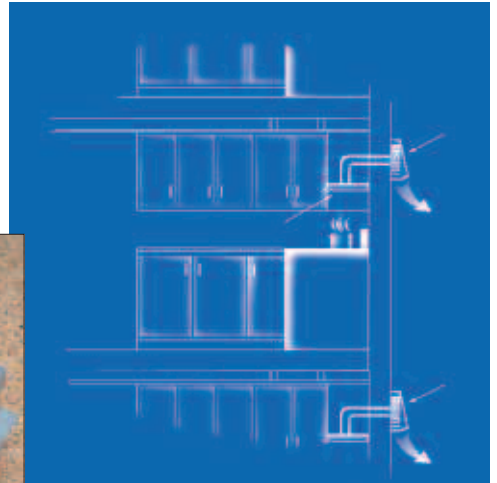
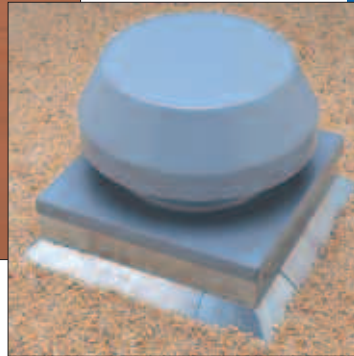
- Galvanized steel housing features baked powder-coat finish (can be painted to match decor)
- Unique external rotor motor has built-in thermal overload protection with automatic reset
- Permanently lubricated sealed ball bearings
- 100% speed control for highly efficient and economical airflow
- Excellent heat dissipation for long motor life
- Suitable for airstream temperatures of up to 140° F
- CSA Certified
- Five-year warranty





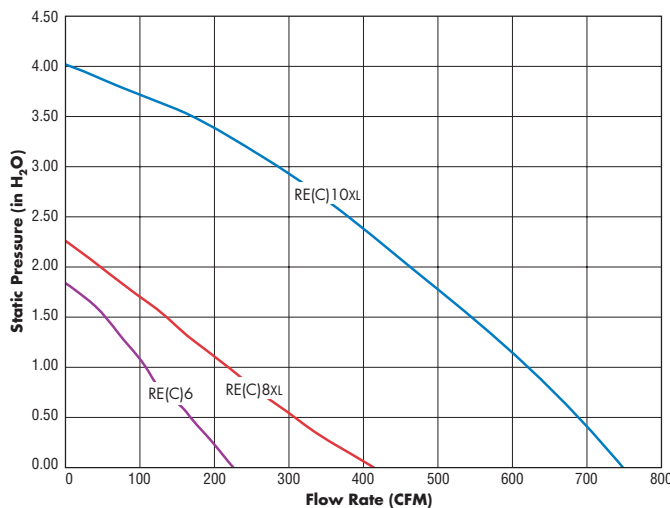
## "RE" could stand for "Real Easy" installation

RE Fans are simple to install; no installation extras are required. Simply mount the fan on the roof or wall, then connect the electrical supply to the easily accessible terminal box. The top cover is removable for access to the motor and wiring connections.



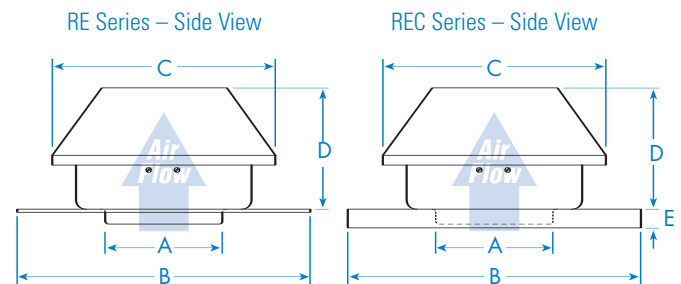
## Specifications

### RE(C) Series Air Performance Graph



Fantech, Inc. certifies that the RE & REC Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

### RE(C) Series Dimensional Data



| model    | A  | B   | C   | D   | E  |
|----------|----|-----|-----|-----|----|
| RE 6     | 6  | 15½ | 13¾ | 6½  | —  |
| REC 6    | 6  | 15½ | 13¾ | 6½  | 1½ |
| RE 8XL   | 8  | 20  | 15¾ | 6   | —  |
| REC 8XL  | 8  | 20  | 15¾ | 6   | 1½ |
| RE 10XL  | 10 | 20  | 19¾ | 11¾ | —  |
| REC 10XL | 10 | 20  | 19¾ | 11¾ | 1½ |



All dimensions in inches. \* Male duct connector is 1/8" smaller than duct size.

### RE(C) Series Performance Data (For sound performance data refer to publication #RE/C-0799-4)

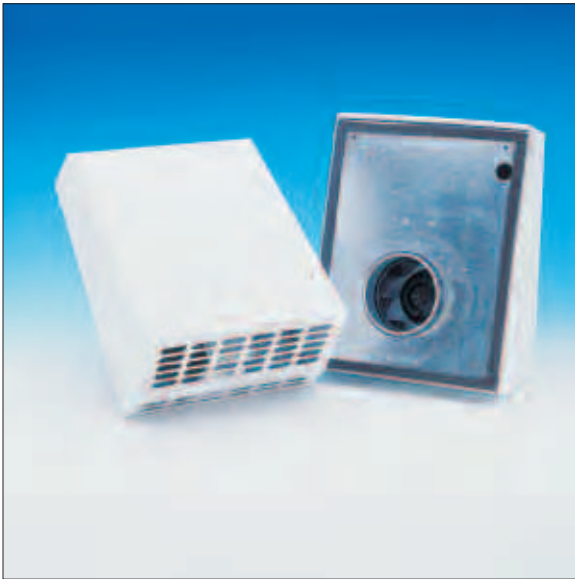
| Fan Model | RPM  | Volts | Max. Watts | Max. Amps | Static Pressure in Inches W.G. |       |      |       |     |      |      |       |      |      |      | Max. Ps. | Duct Dia. | †Sones |
|-----------|------|-------|------------|-----------|--------------------------------|-------|------|-------|-----|------|------|-------|------|------|------|----------|-----------|--------|
|           |      |       |            |           | 0"                             | .125" | .25" | .375" | .5" | .75" | 1.0" | 1.25" | 1.5" | 2.0" | 2.5" |          |           |        |
| RE 6      | 2700 | 115   | 87         | 0.80      | 227                            | 213   | 199  | 184   | 169 | 134  | 106  | 80    | 51   | —    | —    | 1.84"    | 6"        | *7.5   |
| RE 8XL    | 2800 | 115   | 153        | 1.48      | 409                            | 382   | 356  | 331   | 307 | 259  | 212  | 170   | 130  | 43   | —    | 2.23"    | 8"        | *8.9   |
| RE 10XL   | 3250 | 115   | 394        | 3.61      | 753                            | —     | 721  | —     | 690 | 656  | 622  | 586   | 548  | 467  | 383  | 4.03"    | 10"       | †16.4  |

Performance shown is for installation type A - Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

† The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: free inlet fan sone levels.

\* Sone value shown was calculated at 0.5" (static pressure in inches W.G.).

† Sone value shown was calculated at 0.75" (static pressure in inches W.G.).



## Fantech RVF Series

*Free your interior space  
Maximize your ventilation*

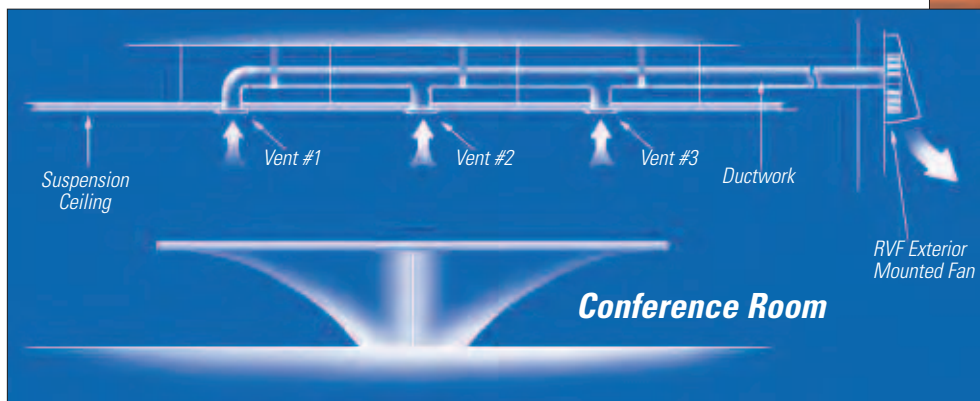
From conference rooms to bathrooms, RVF fans are the perfect way to free up valuable interior space. With duct diameters ranging from 4" to 8", Fantech's RVF Series fans move a lot of air while maintaining whisper quiet interior noise levels.

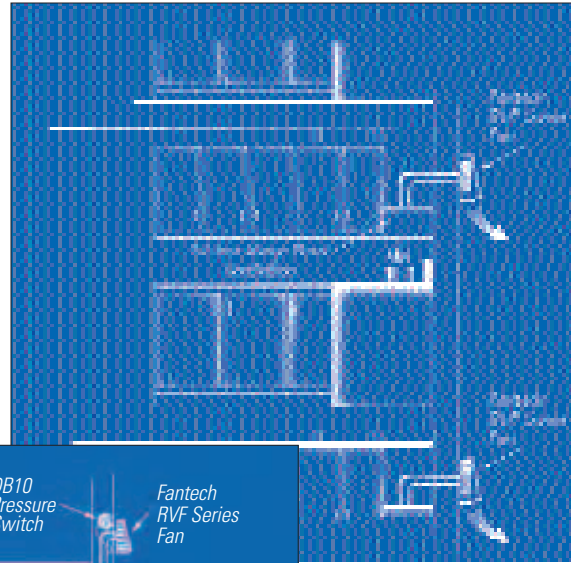
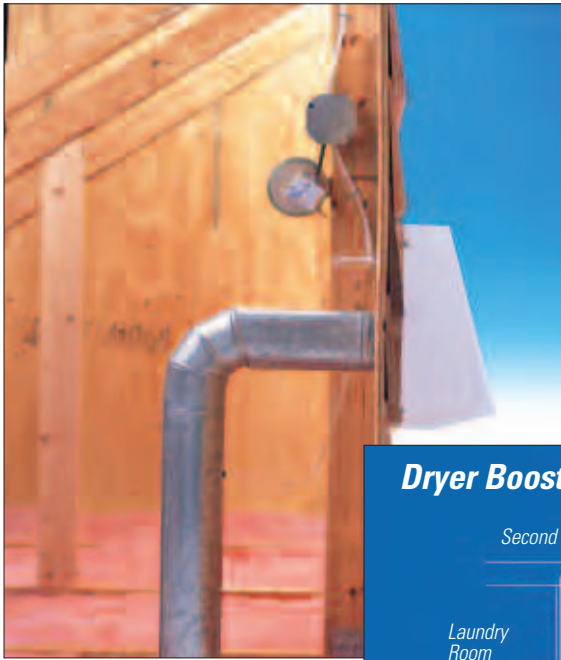
*Get connected with ease*

Fantech RVF Series fans are lightweight, compact, and simple to install. No installation extras are required. Just mount the fan to the wall and connect the electrical supply to the conveniently located terminal box. The housing is removable for immediate access to the motor and wiring connections.

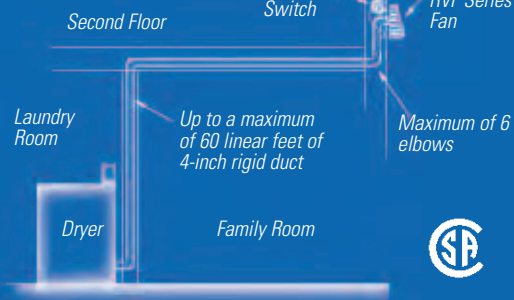
*Rugged features help RVF fans  
withstand the elements:*

- Galvanized steel housing features baked powder-coat finish (can be painted to match decor)
- External rotor motor with totally enclosed design allows fans to operate in high moisture, lint and dust laden air
- Split capacitor motors feature automatic reset thermal overload protection and sealed ball bearings for long life and maintenance-free operation
- All motors and impellers are designed as one integral unit, allowing for excellent motor heat dissipation, even at low RPM
- Permanently lubricated sealed ball bearings
- Solid-state speed control for infinitely variable, highly efficient and economical airflow
- Excellent heat dissipation, ensuring long motor life
- HVI certified
- Suitable for airstream temperatures of up to 140° F
- CSA Certified
- Five-year factory warranty





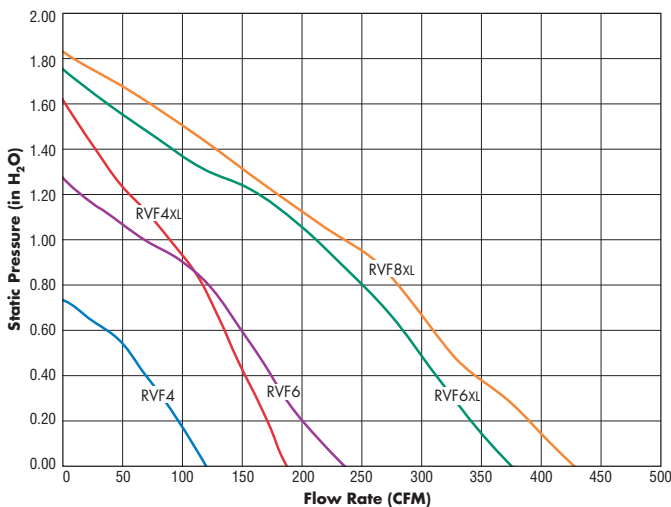
## Dryer Boosting



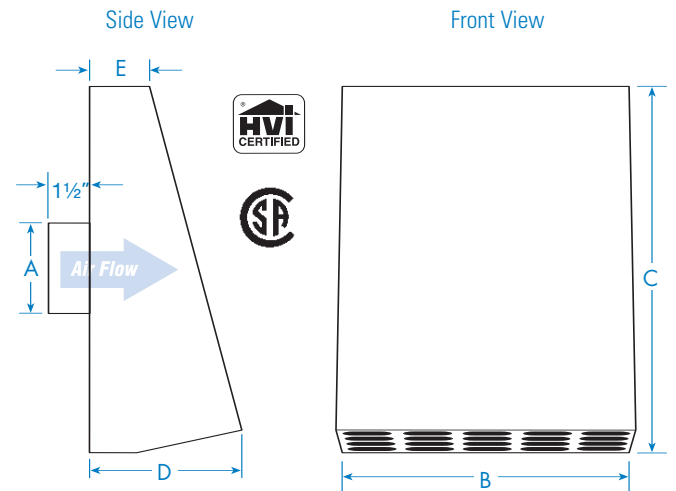
Versatile, efficient RVF Series fans are excellent choices for dryer boosting, bath and kitchen ventilation when space is an issue.

## Specifications

### RVF Series Air Performance Graph



### RVF Series Dimensional Data



| model   | A <sup>†</sup> | B   | C  | D | E  |
|---------|----------------|-----|----|---|----|
| RVF 4   | 4              | 10¼ | 13 | 6 | 2¾ |
| RVF 4XL | 4              | 10¼ | 13 | 6 | 2¾ |
| RVF 6   | 6              | 10¼ | 13 | 6 | 2¾ |
| RVF 6XL | 6              | 14¼ | 17 | 6 | 2¾ |
| RVF 8XL | 8              | 14¼ | 17 | 6 | 2¾ |

All dimensions in inches.  
<sup>†</sup> Duct connection is 1/8" smaller than duct size.

### RVF Series Performance Data

| Fan Model | RPM  | Volts | Rated Watts | Wattage Range | Max. Amps | Static Pressure in Inches W.G |     |     |     |     |     |      |      | Max. Ps | Duct Dia. |
|-----------|------|-------|-------------|---------------|-----------|-------------------------------|-----|-----|-----|-----|-----|------|------|---------|-----------|
|           |      |       |             |               |           | 0"                            | .1" | .2" | .4" | .6" | .8" | 1.0" | 1.5" |         |           |
| RVF 4     | 2950 | 115   | 19          | 13 – 19       | 0.17      | 124                           | 110 | 98  | 71  | 36  | —   | —    | —    | 0.73"   | 4"        |
| RVF 4XL   | 2700 | 115   | 92          | 73 – 92       | 0.84      | 193                           | 180 | 172 | 154 | 136 | 118 | 91   | —    | 1.61"   | 4"        |
| RVF 6     | 2550 | 115   | 92          | 78 – 93       | 0.84      | 242                           | 220 | 204 | 177 | 150 | 123 | 68   | —    | 1.27"   | 6"        |
| RVF 6XL   | 3000 | 115   | 149         | 145 – 157     | 1.46      | 381                           | 360 | 346 | 315 | 285 | 258 | 213  | 64   | 1.74"   | 6"        |
| RVF 8XL   | 2900 | 115   | 151         | 140 – 155     | 1.42      | 435                           | 410 | 392 | 348 | 312 | 282 | 235  | 102  | 1.82"   | 8"        |

RVF Series performance is shown with ducted outlet. Per HVI's Certified Ratings Program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at .1 inches WG.

# Timers and Speed Controls

Pushbutton Timer—FD60EM



Speed Control—WC15 ▼



Humidistat—FH20 ▼



▼ Attic Thermostat—FAT10



Fan Timer—FLD60 ▼



Speed Control—SCD5 ▲



Speed Control—RPE10



▲ Manual Fan Timer—FD30M



Speed Control—WC15H

# *Multi-Port Centrifugal Fans for Round Duct*

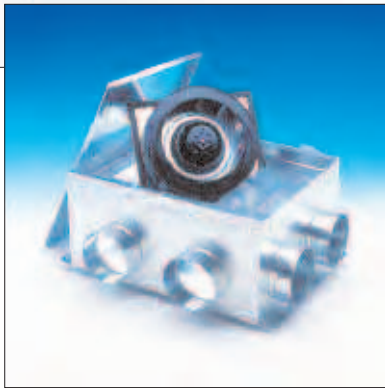
*when you need to exhaust many points to one*



*CVS Series*



Top photo – 2-port model 275A. Right-hand photo 4-port models 300A and 400A.



## CVS Series Fans

### For all these reasons... and more

- Galvanized steel housing
- External rotor motor with backward-curved centrifugal fan wheel constructed of high-density polyamide, easily removable from housing for service without disturbing the installation
- Internal scroll for maximum air performance
- Well-designed inlet venturi for optimum efficiency
- Permanently lubricated sealed ball bearings
- 100% speed controllable for highly efficient and economical airflow
- Suitable for airstream temperatures up to 140° F
- UL Listed; CSA Certified
- Five-year warranty



Fantech's external rotor motor. Quiet, efficient and reliable.

## Fantech CVS Series

### Compact, quiet and dependable

Multi-unit housing makes incredible demands on ventilation. Fantech's CVS Series inline duct fans are designed to meet those challenges with ease.

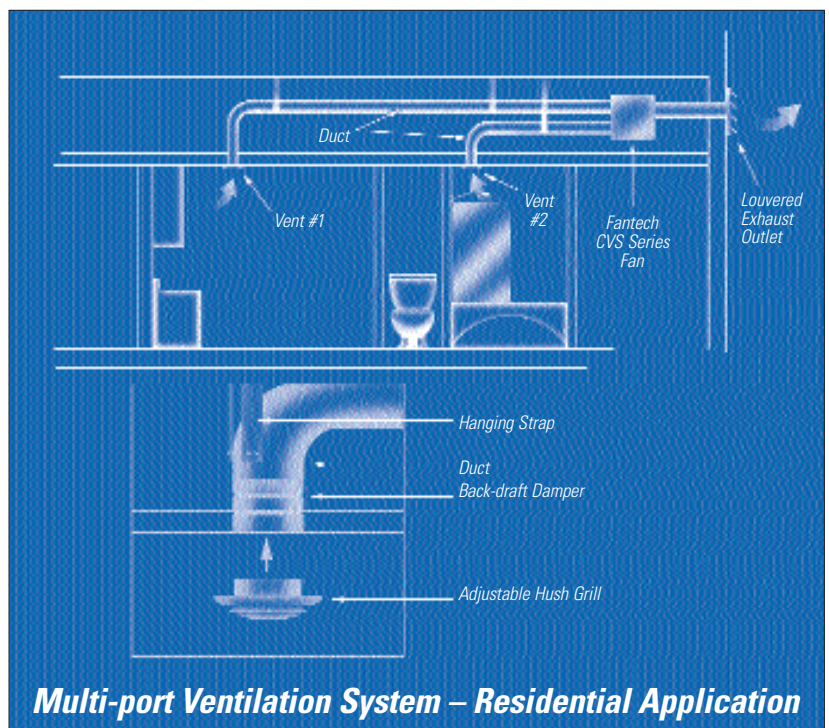
These lightweight circular duct fans have been engineered for installation in areas with limited space, such as between floors in apartment buildings or high rise suites. The multi-port direct driven centrifugal fan can exhaust up to several points and multiple applications into one central point without the use of adapters or transitions. The motorized impeller is both statically and dynamically balanced as one integral unit, for vibration-free and whisper-quiet performance.

- Model CVS 275A allows for two ventilation points, delivering 220 CFM @ .2" WG
- Model CVS 300A and Model CVS 400A allow for four ventilation points, delivering 320 CFM @ .2" WG (CVS 300A), and 380 CFM @ .2" WG (CVS 400A)

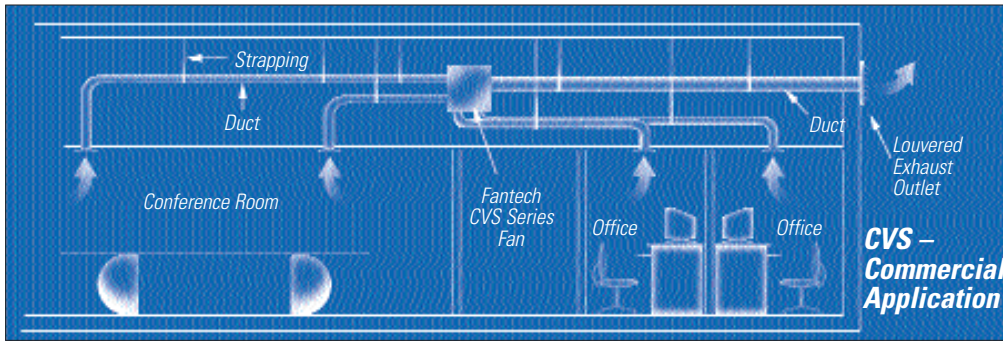
### Easy installation. All parts included.

Fantech CVS fans are simple to install, with all parts included (ducted exhaust fan casing, motor assembly, cover, and sheet metal screws).

Simply select the fan mounting location, taking into account the type of application, service accessibility, and distance from exhaust point (to minimize fan operating noise). Next, fasten the mounting casing to the ceiling, using either threaded rod or wires to suspend the unit. Finally, connect the ductwork to inlet and outlet of the fan using CB or FC clamps or duct tape. Congratulations—you've just installed one of the world's finest multi-port fans.



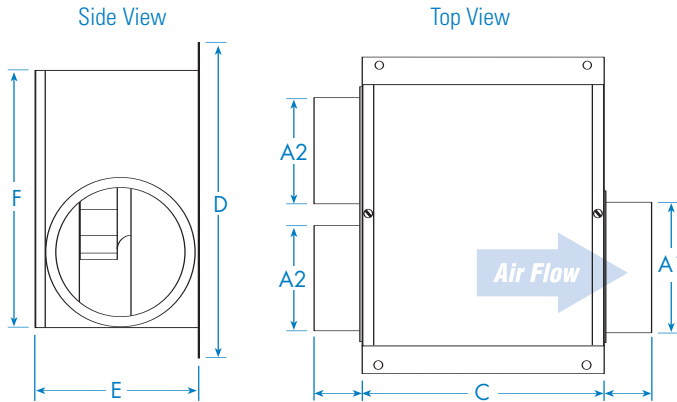
**Multi-port Ventilation System – Residential Application**



CVS400A and CVS300A multi-port ventilation fans are powerful, quiet and efficient. In the work place or at home Fantech is "Your Ventilation Solutions Company".

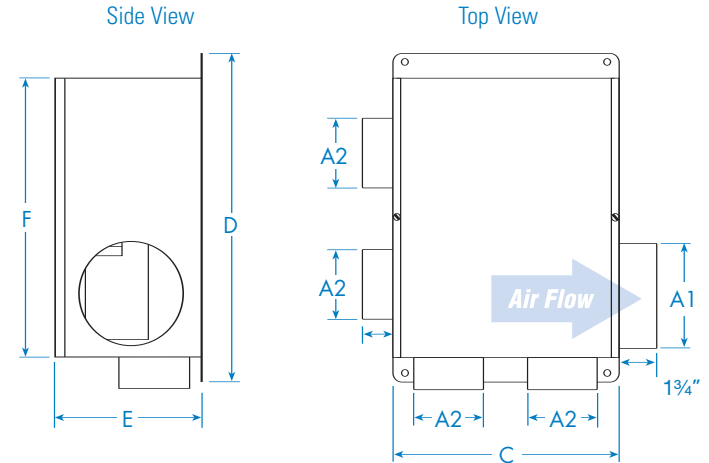
## Specifications

### CVS Series Dimensional Data



| model   | A1 | A2 | C  | D  | E               | F  |
|---------|----|----|----|----|-----------------|----|
| CVS275A | 6  | 5  | 11 | 15 | 7 $\frac{7}{8}$ | 12 |

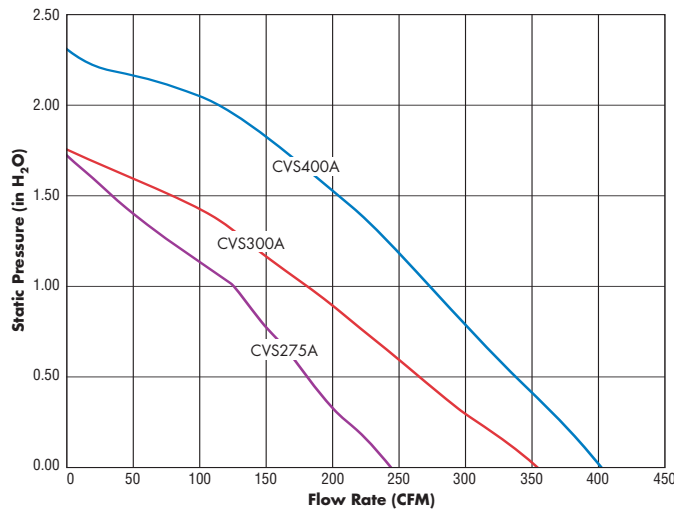
All dimensions in inches. <sup>1</sup> Duct connections are  $\frac{1}{8}$ " smaller than duct size.



| model   | A1 | A2 | C  | D                | E               | F  |
|---------|----|----|----|------------------|-----------------|----|
| CVS300A | 6  | 4  | 13 | 18 $\frac{3}{4}$ | 8 $\frac{1}{4}$ | 16 |
| CVS400A | 6  | 4  | 13 | 18 $\frac{3}{4}$ | 8 $\frac{1}{4}$ | 16 |

All dimensions in inches. <sup>1</sup> Duct connections are  $\frac{1}{8}$ " smaller than duct size.

### CVS Series Air Performance Graph



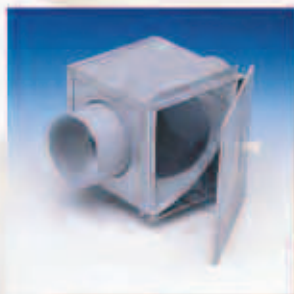
### CVS Series Performance Data

| Fan Model | RPM  | Volts | Rated Watts | Wattage Range | Max. Amps | Static Pressure in Inches W.G |     |     |     |     |      |      | Max. Ps | Duct Dia. |
|-----------|------|-------|-------------|---------------|-----------|-------------------------------|-----|-----|-----|-----|------|------|---------|-----------|
|           |      |       |             |               |           | 0"                            | .2" | .4" | .6" | .8" | 1.0" | 1.5" |         |           |
| CVS275A   | 2550 | 115   | 92          | 78 - 93       | 0.79      | 245                           | 220 | 192 | 171 | 147 | 126  | 34   | 1.72"   | 5"        |
| CVS300A   | 2500 | 115   | 123         | 110 - 123     | 1.07      | 355                           | 320 | 283 | 249 | 215 | 180  | 79   | 1.76"   | 4"        |
| CVS400A   | 2950 | 115   | 156         | 130 - 158     | 1.41      | 404                           | 380 | 352 | 324 | 299 | 274  | 204  | 2.30"   | 4"        |

CVS Series performance is shown with ducted outlet. Per HVI's Certified Ratings Program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at .2 inches W.G.

# Specialty Accessories

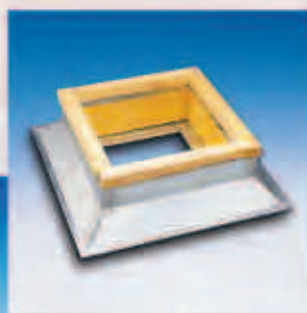
*Inline Lint Trap—DBLT*



*Fan Proving Switch—DB10*



*Roof Curb—IC*



*Stainless Steel Hood Liner—SHL*



*Vent Light Fixture—VLC64*



# *Low Silhouette Axial Fans*

*the perfect solution when space is a problem*



*FADE Series*



## *Fantech FADE Series*

These fans handle major ventilation challenges – even large warehouses – effectively and quietly, without taking up a lot of valuable space.

FADE Series axial fans are designed for structural stability, with a slim profile for conservation of space and safety. All FADE Series fans combine aerodynamically designed propeller blades and motor rotor into one expertly integrated unit.

With fan sizes ranging from 8" to 25", Fantech's FADE Series fans move a lot of air, yet are statically and dynamically balanced for vibration-free operation. The external rotor motorized propeller provides excellent heat dissipation, even at low RPM.

### *Easy set-up. Hard to beat.*

Fantech's FADE Series is designed to conserve space while being acceptable for continuous duty. And FADE Series fans are simple to install;

no installation extras are required. Fans arrive fully assembled and ready for immediate installation. Simply mount the fan's motorized propeller assembly directly to the wall panel. The housing is removable for access to the motor and wiring connections.



*FADE 'S'ickle type sidewall propeller fan*

### *FADE's external rotor motor The strong and silent type*

All FADE fans include motor-side guards as standard. FADE Series motors are a totally enclosed Class B direct driven external rotor type and are 100% speed controllable. To change the speed, simply decrease the voltage with either a solid state or transformer-type control.

FADE Series fans feature heavy gauge galvanized steel, baked powdercoat finish, and an external rotor motorized propeller. Propeller options are formed steel blades featuring an 'S' blade design, or die-cast aluminum with an 'A' blade design. Either blade option is integrally mounted to the motor.

The external rotor motor at the heart of FADE fans has automatic reset thermal overload protection, and is capable of operating in ambient air or airstream temperatures of up to 100° F.



*FADE 'A'irfoil type sidewall propeller fan*

### *More FADE Series features:*

- Permanently lubricated sealed ball bearings
- 100% speed controllable for highly efficient and economical airflow
- Suitable for airstream temperatures up to 100° F
- Airflow up to 7858 CFM
- Integral blades and external rotor for precision balancing
- Formed galvanized steel wall panel with venturi features baked powdercoat finish
- Shallow profile with no protruding motor
- Terminal box with prewired electrical strip
- Three-year warranty

# Specifications

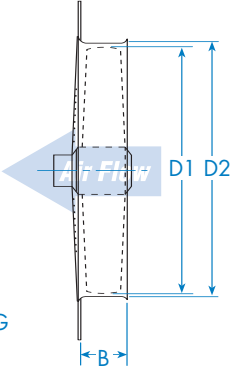
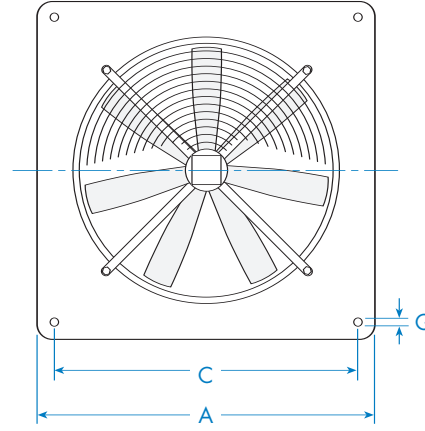
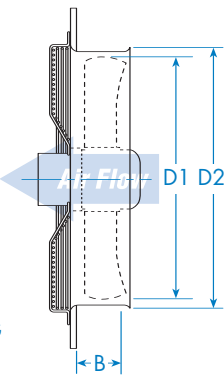
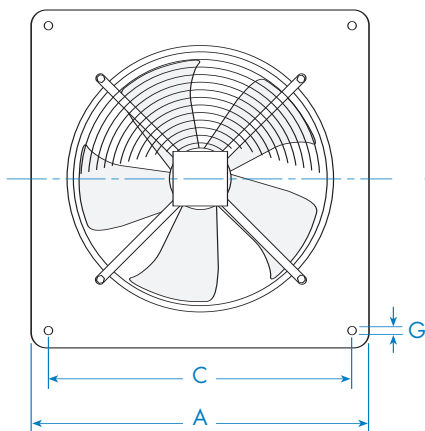
## FADE Series Dimensional Data

FADE S-type Front View

FADE S-type Side View

FADE A-type Front View

FADE A-type Side View



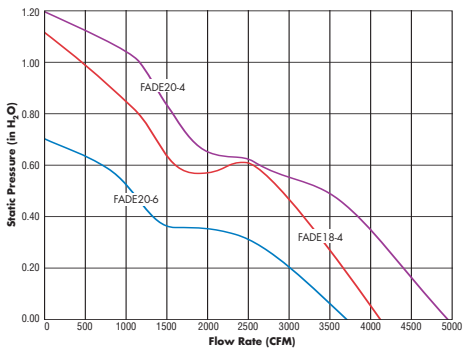
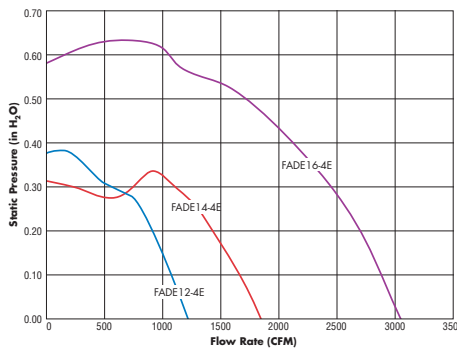
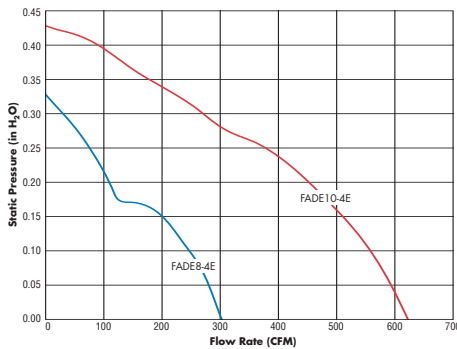
| model   | A                               | B                             | C                              | D1                             | D2                              | G                            | Blade Type |
|---------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|------------------------------|------------|
| FADE 8  | 12 <sup>5</sup> / <sub>16</sub> | 2                             | 10 <sup>1</sup> / <sub>4</sub> | 7 <sup>3</sup> / <sub>4</sub>  | 8 <sup>1</sup> / <sub>16</sub>  | <sup>1</sup> / <sub>4</sub>  | S          |
| FADE 10 | 14 <sup>9</sup> / <sub>16</sub> | 2                             | 12 <sup>5</sup> / <sub>8</sub> | 10                             | 10 <sup>5</sup> / <sub>16</sub> | <sup>1</sup> / <sub>4</sub>  | S          |
| FADE 12 | 17                              | 3                             | 15                             | 12                             | 12 <sup>7</sup> / <sub>8</sub>  | <sup>5</sup> / <sub>16</sub> | S          |
| FADE 14 | 19 <sup>9</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>8</sub> | 17 <sup>1</sup> / <sub>8</sub> | 14                             | 15 <sup>3</sup> / <sub>8</sub>  | <sup>5</sup> / <sub>16</sub> | S          |
| FADE 16 | 22 <sup>3</sup> / <sub>4</sub>  | 3 <sup>1</sup> / <sub>2</sub> | 21                             | 16 <sup>1</sup> / <sub>2</sub> | 17 <sup>1</sup> / <sub>4</sub>  | <sup>3</sup> / <sub>8</sub>  | S          |

All dimensions in inches.

| model     | A                               | B                             | C                               | D1 | D2                             | G                           | Blade Type |
|-----------|---------------------------------|-------------------------------|---------------------------------|----|--------------------------------|-----------------------------|------------|
| FADE 18   | 22 <sup>9</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>4</sub> | 21                              | 18 | 18 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> | A          |
| FADE 20-6 | 25 <sup>5</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>2</sub> | 24 <sup>1</sup> / <sub>4</sub>  | 20 | 20 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> | A          |
| FADE 20-4 | 25 <sup>5</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>2</sub> | 24 <sup>1</sup> / <sub>4</sub>  | 20 | 20 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> | A          |
| FADE 22   | 28 <sup>5</sup> / <sub>8</sub>  | 5 <sup>1</sup> / <sub>4</sub> | 26 <sup>9</sup> / <sub>16</sub> | 22 | 22 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> | A          |
| FADE 25   | 31 <sup>3</sup> / <sub>4</sub>  | 6                             | 29 <sup>1</sup> / <sub>2</sub>  | 25 | 25 <sup>1</sup> / <sub>2</sub> | <sup>3</sup> / <sub>8</sub> | A          |

All dimensions in inches.

## FADE Series Air Performance Graphs



## FADE Series Performance Data (For sound performance data refer to publication #FADE-0899)

| Fan Model | RPM  | Volts            | Max. Watts | Max. Amps          | Static Pressure in Inches W.G. |       |       |      |       |      | Sones |
|-----------|------|------------------|------------|--------------------|--------------------------------|-------|-------|------|-------|------|-------|
|           |      |                  |            |                    | 0"                             | .100" | .125" | .25" | .375" | .5"  |       |
| FADE 8-4  | 1550 | 115              | 45         | 0.41 <sup>1</sup>  | 304                            | 246   | 224   | 74   | —     | —    | 4.1   |
| FADE 10-4 | 1500 | 115              | 68         | 0.62 <sup>1</sup>  | 624                            | 558   | 533   | 377  | 132   | —    | 7.9   |
| FADE 12-4 | 1400 | 115              | 130        | 1.19 <sup>1</sup>  | 1208                           | 1069  | 1030  | 797  | —     | —    | 9.4   |
| FADE 14-4 | 1200 | 115              | 245        | 2.24 <sup>1</sup>  | 1839                           | 1654  | 1599  | 1295 | —     | —    | 9.6   |
| FADE 16-4 | 1400 | 115              | 458        | 4.19 <sup>2</sup>  | 3054                           | 2882  | 2839  | 2570 | 2198  | 1699 | 12.0  |
| FADE 18-4 | 1550 | 115              | 698        | 6.39 <sup>2</sup>  | 4115                           | 3895  | 3840  | 3549 | 3239  | 2908 | 14.3  |
| FADE 20-6 | 1100 | 115              | 435        | 3.98 <sup>1</sup>  | 3693                           | 3368  | 3279  | 2775 | 1429  | —    | 10.7  |
| FADE 20-4 | 1450 | 115 <sup>3</sup> | 916        | 8.39 <sup>2</sup>  | 4949                           | 4682  | 4615  | 4274 | 3917  | 3445 | 16.4  |
| FADE 22-6 | 1000 | 115 <sup>3</sup> | 756        | 6.92 <sup>2</sup>  | 5629                           | 5248  | 5153  | 4432 | —     | —    | 12.0  |
| FADE 25-6 | 1000 | 115 <sup>3</sup> | 1134       | 10.38 <sup>3</sup> | 7858                           | 7355  | 7230  | 6557 | —     | —    | 14.8  |

Performance shown is for installation type A - Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings include the effects of intake guard in the airstream.

<sup>1</sup> Also available with dual voltage 230/460 three phase motors.

<sup>2</sup> The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) in hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A: Free inlet fan sone levels. All sone values shown are calculated at 0.1" (static pressure in inches W.G.).

<sup>3</sup> Recommended speed control rating 5A. <sup>2</sup> Recommended speed control rating 10A. <sup>3</sup> Recommended speed control rating 15A.



Fantech, Inc. certifies that the FADE Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



# Fantech

*Fantech Air Screens and Air Curtains –  
the quiet, efficient solution to entranceway drafts and dust*



*Fantech Air Curtain models available in widths  
of 36" and 48". Model AC-4800 above.*



*Fantech Air Screen models available in widths of  
32", 39" and 59". Model AS-4006 pictured.*



*Heat Recovery Ventilators, Energy Recovery Ventilators  
and Whole House HEPA Filtration for Indoor Air Quality*



*Whole House HEPA Filtration—CM/DM*



*Heat Recovery Ventilators—SHR & VHR  
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# Fantech

*Your Ventilation Solutions Company*

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