



# Fantech

OCTOBER 2007

## FADE SERIES AXIAL FANS

Fantech's FADE Series axial fans are designed to effectively and quietly handle major ventilation challenges in locations such as large warehouses without taking up a lot of valuable space.

All FADE Series fans combine aerodynamically designed propeller blades and rotor motor into one expertly integrated unit. Fans feature heavy gauge galvanized steel, baked powdercoat finish. Propeller options are formed steel blades featuring an 'S' blade design or die-cast aluminum with an 'A' blade design.

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. Rated for continuous duty.

### Simplified Ordering

Now Fantech offers two ways to order the FADE Series. Use the "Fan Only" model numbers to order fan alone or use the new "Fully Assembled" model numbers and you'll receive the Fan fully assembled with wall collar and backdraft damper.

### Easy Set-Up

In most installations, no extras are required.

Note: Assembled units will require bracing (by others) if installed in a metal building.



Fantech, Inc. certifies that the FRD 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.

**THREE  
YEAR  
WARRANTY**



### External Rotor Motor Key to Power and Performance

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. All FADE fans include motor-side guards as standard.

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.

## EASY TO INSTALL. LOADED WITH 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

# FADE SERIES

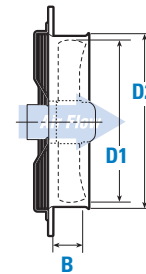
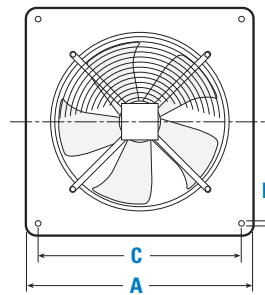
## AXIAL FANS



## DIMENSIONAL DATA

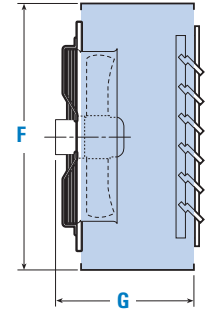
### FADE S-TYPE

"Fan Only" Model



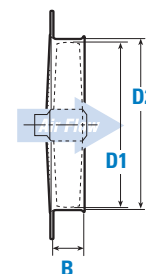
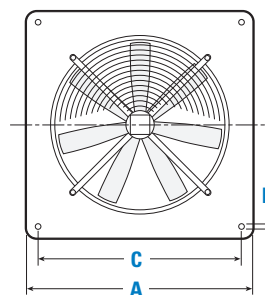
### FADE S-TYPE

"Fully Assembled" Model



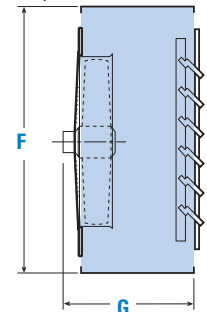
### FADE A-TYPE

"Fan Only" Model

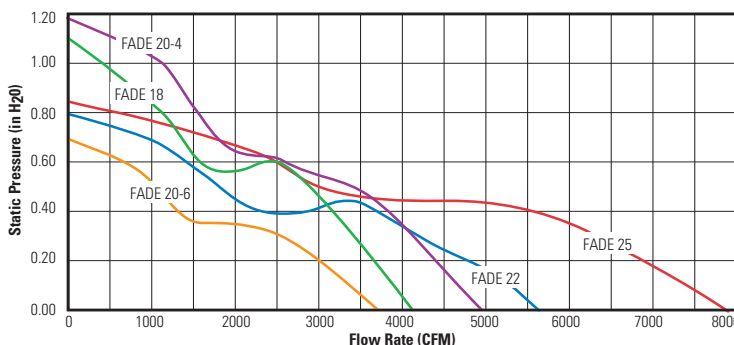
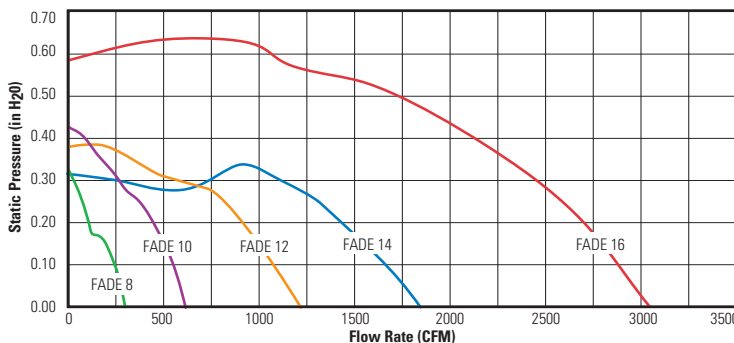


### FADE A-TYPE

"Fully Assembled" Model



## AIR PERFORMANCE GRAPHS



Model	A	B	C	D1	D2	E	F	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>	1/4	—	—	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>	1/4	—	—	S
FADE 12	17	3	15	12	12 <sup>7</sup> / <sub>8</sub>	5/16	21	15 <sup>1</sup> / <sub>2</sub>	S
FADE 14	19 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>8</sub>	14	15 <sup>3</sup> / <sub>8</sub>	5/16	21	15 <sup>1</sup> / <sub>2</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>	3/8	24	16 <sup>1</sup> / <sub>2</sub>	S
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>	3/8	24	16 <sup>1</sup> / <sub>2</sub>	A
FADE 20-6	25 <sup>3</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>	3/8	26	17 <sup>1</sup> / <sub>2</sub>	A
FADE 20-4	25 <sup>3</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>	3/8	26	17 <sup>1</sup> / <sub>2</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>	3/8	32	18 <sup>3</sup> / <sub>4</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>	3/8	32	18 <sup>3</sup> / <sub>4</sub>	A

All dimensions in inches. FADE12 through FADE 25 Fans can be ordered fully assembled with housing and damper. See Fantech Price List for detailed descriptions and model numbers.

## PERFORMANCE DATA

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

Performance certified 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.

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

<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 A: Free inlet hemispherical fan sone levels. All sone values shown are calculated at 0.1" (static pressure in inches W.G.). <sup>1</sup> Recommended speed control rating 5A. <sup>2</sup> Recommended speed control rating 10A. <sup>3</sup> Recommended speed control rating 15A.



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