

# Direct-Drive Sidewall Propeller Fans

## MODEL FADE

### Propeller

Formed steel blades on "S" design, die cast aluminum on "A" blade design. All integrally mounted to motor.

### Bearings

Permanently sealed and self lubricating.

### Motor

Direct drive totally enclosed fan cooled, external rotor type.



### Terminal Box

Junction box mounted and prewired as standard.

### Panel Assembly

Galvanized steel with baked powder coat finish.

### Wire Guard

Standard on intake side of all models.

**"S" Blade Design Shown**

## Construction Features

- 100% Speed Controllable
- Air Flows up to 8000 cfm
- Integral Blades and External Rotor allowing precision balancing
- Formed steel wall panel with Venturi
- Shallow profile with no protruding rotor
- 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
- Electrostatically applied polyester/epoxy urethane powder coat finish
- Self lubricating/sealed for life precision ball bearings
- Terminal box with prewired electrical strip



Fantech 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 AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Fans are manufactured from UL Recognized Components.

## Description

A series of sidewall propeller fans designed for structural stability with a slim profile for conservation of space and safety. All FADE Series fans have aerodynamically designed propeller blades and motor rotor assembled as one integral unit. All fans are statically and dynamically balanced for vibration free operation. Fans arrive fully assembled and are ready for immediate installation. All FADE fans include motor-side guards as standard. FADE Series motors are a totally enclosed Class B, direct drive external rotor type with sealed self lubricating bearings and automatic reset thermal overload protection. Motors are capable of operating in ambient air or air stream temperatures of up to 100°F. FADE Series fans are 100% speed controllable through a decrease in voltage by using either a solid state or transformer type control.

## Options/Accessories

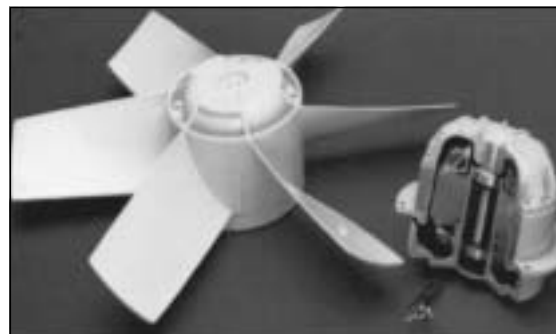
**Solid State Speed Control:** Available with direct drive models. Control is matched to the motor and blower wheel to allow continuous reduction in performance allowing adjustments of airflow for system balancing. CFM is reduced in direct proportion to motor speed reduction. Speed control options available for all models. Exhauster performance can be controlled from the ventilated area.

**Gravity Shutter:** Helps provide weather protection and helps prevent backdraft with wall mounted fans. Open in direction of air flow only, automatically closes by gravity when fan is not in operation.

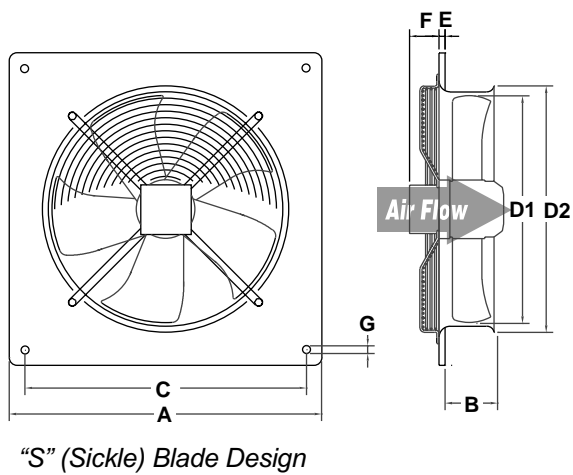
**Motorized Shutter:** Provides positive opening/closing action.

**Disconnect Switch:** Non-fused safety disconnects are available for all motor sizes in watertight or non-watertight enclosures.

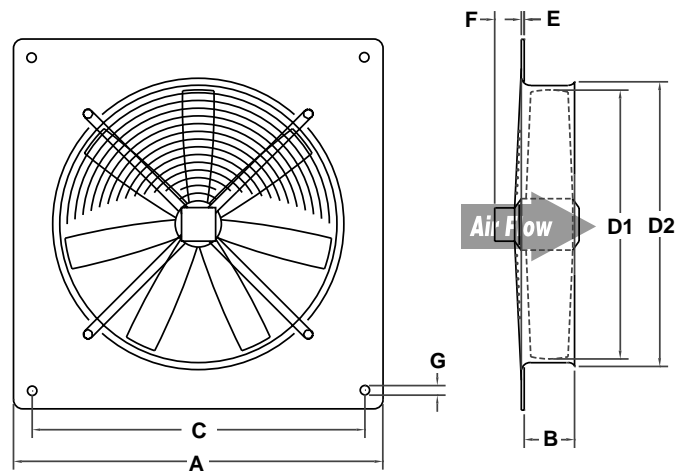
**Wall housing:** All galvanized steel housing provides a simple solution to installing a fan in a rough wall opening. Unit can be mounted flush or off-center in the wall opening. Wire guards or shutters may be attached to the pre-punched flange. Available for sizes 12 and larger. Shipped assembled or knocked down.



*External Rotor Motor and Integral Propeller, "A" Blade Design shown*



"S" (Sickle) Blade Design



"A" (Airfoil) Blade Design

Model	A	B	C	D1	D2	E	F	G	Blade Design	Shipping Weight
FADE 8	12 1/4	2	10 1/4	8	8 1/2	1/4	1 1/2	1/4	S	15
FADE 10	14 1/2	2	12 1/2	10	10 1/2	1/4	1 1/2	1/4	S	15
FADE 12	17	2 1/2	15	12	13	1/2	1 1/2	5/16	S	20
FADE 14	19	2 3/4	17	14	15 1/4	1/2	2	5/16	S	20
FADE 16	22 3/4	3 1/4	21	16 1/2	17 1/4	1/2	2	7/16	S	25
FADE 18	22 1/2	4 1/4	21	18	18 3/4	1/2	2	1/2	A	30
FADE 20	25 3/4	6	24	20	20 3/4	1/2	2	3/4	A	45
FADE 22	28 1/2	5 1/4	26 3/4	22	22 3/4	3/4	2	3/4	A	55
FADE 25	31 1/2	7 3/4	29 1/2	25	26	3/4	2	3/4	A	65

Dimensional data given in inches.

Model	Recommended Loose Gravity Dampers			115V Speed Controls		Assembled Wall Collar		
	Model	Size	Stock No.	SCR*	Stock No.	Model	Size (L x W x D)	Stock No.
FADE 8-4	GDV9	9" x 9"	83G09	WC 15	56005			
FADE 10-4	GDV12	12" x 12"	83G12	WC 15	56005			
FADE 12-4	GDV12	12" x 12"	83G12	WC 15	56005	AWC14	21" x 21" x 13"	N1412
FADE 14-4	GDV18	18" x 18"	83G18	WC 15	56005	AWC14	21" x 21" x 13"	N1412
FADE 16-4	GDV18	18" x 18"	83G18	WC 15	56005	AWC18	24" x 24" x 14"	N1816
FADE 18-4	GDV21	21" x 21"	83G21	RPE 10	56010	AWC18	24" x 24" x 14"	N1816
FADE 20-6	GDV21	21" x 21"	83G21	RPE 10	56010	AWC20	26" x 26" x 15"	N2000
FADE 20-4	GDV21	21" x 21"	83G21	RPE 10	56010	AWC20	26" x 26" x 15"	N2000
FADE 22-6	GDV26	26" x 26"	83G26	RPE 10	56010	AWC25	32" x 32" x 16"	N2522
FADE 25-6	GDV26	26" x 26"	83G26	RPE 15	56015	AWC25	32" x 32" x 16"	N2522

**Damper used for assembled wall collar may not be the same as the recommended loose gravity damper. Refer to Accessories price list for correct damper selection for assembled wall collar.**

## FADE Series Direct-Drive Propeller Fans

Model	Motor Hp	RPM	Sones @ 1/10" SP	CFM at Static Pressure, in. WG						Ventilator with TEFC Motor and Integral Propeller	
				0.0"	1/10"	1/8"	1/4"	3/8"	1/2"	115/1/60	208-230-460/3/60
				Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	Stock No.	
FADE 8-4	1/25	1530	4.1	304	246	224	74	-	-	N08H1	
FADE 10-4	1/15	1500	7.9	624	558	533	377	132	-	N10K1	
FADE 12-4	1/8	1410	9.4	1208	1069	1030	797	-	-	N12I1	
FADE 14-4	1/4	1185	9.6	1839	1654	1599	1295	-	-	N14M1	
FADE 16-4	1/3	1410	12.0	3054	2882	2839	2570	2198	1699	N16N1	
FADE 18-4	3/4	1525	14.3	4115	3895	3840	3459	3239	2908	N18Q1	
FADE 20-6	1/2	1080	10.7	3693	3368	3279	2775	1429	-	N20P1	
FADE 20-4	1	1450	16.4	4949	4682	4615	4274	3917	3445	N20R1	N20R2
FADE 22-6	3/4	990	12.0	5629	5248	5153	4432	-	-	N22Q1	N22Q2
FADE 25-6	1 1/2	975	14.8	7858	7355	7230	6557	-	-	N25R1	N25R2

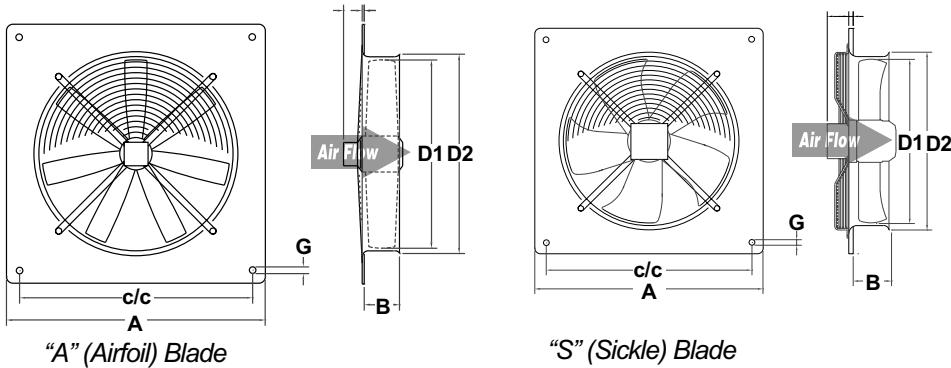
Single Phase models available as standard with 115 Volt motor only.

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

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A - Free inlet fan sone levels.

Notice: All specifications subject to change without notice unless prior approval in submittals by manufacturer.

**FADE - Direct-Drive Sidewall Propeller Fan**

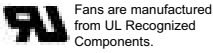


- Standard Features**
- 100% Speed Controllable
  - Integral Blades and External Rotor allowing precision balancing
  - Formed steel wall panel with Venturi
  - Shallow profile with no protruding motor
  - External rotor motor, class B insulation
  - Automatic Reset Thermal Overload Protection
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  - Self lubricating/sealed for life precision ball bearings
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See pages 26-27 of Booklet TF-1003, October 2003, for complete fan performance specifications.



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8	12 1/4	12	10 1/2	8	8 1/2	1/4	1 1/2	1/4	S	15
10	14 1/2	2	12 1/2	10	10 1/2	1/4	1 1/2	1/4	S	15
12	17	2 1/2	15	12	13	1/2	1 1/2	1/4	S	20
14	19	2 3/4	17	14	15 1/4	1/2	2	1/4	S	20
16	22 3/4	3 1/4	21	16 1/2	17 1/4	1/2	2	1/2	S	25
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25	31 1/2	7 3/4	29 1/2	25	26	3/4	2	3/4	A	65

Fan Specifications										Motor Specifications				
Line	Qty	Model No.	Tag	CFM	SP	Fan RPM	BHP	Sones	HP	Volts	Phase	Hertz	Encl	
1														
2														
3														
4														
5														

Accessory Items	1	2	3	4	5	Accessory Items	1	2	3	4	5
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 Customer: \_\_\_\_\_ Approved: \_\_\_\_\_  
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