

FSD Series

Inline Mixed Flow Square Fans

Fantech FSD mixed flow centrifugal type exhaust/supply fans for moderate size ventilation applications were specifically designed to provide the high flow of axial designs plus the higher pressure, non-overloading characteristics of backward curved impellers. Fan motors are capable of operating in air stream temperatures up to 140°F (60° C). Motor bearings are a permanently sealed, self lubricating ball type.

The square design provides a larger discharge area than tubular centrifugal or vane axial fans, so outlet velocities are reduced for quieter operation. 100% speed controllable through voltage reduction allowing for on-demand ventilation or precision balancing of systems.

Total control for optimum results

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. Direct drive eliminates the need for continuous belt alignment, tension adjustment and ongoing maintenance.

External Rotor Motors

All FSD Series fans utilize our unique external rotor motors. The motor’s 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.

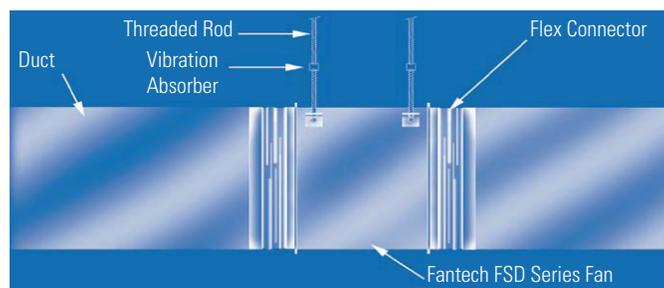
Features and Benefits

- Airflow up to 6993 CFM
- 18” to 26” (454 to 660 mm) square duct dimensions
- 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
- Automatic reset thermal overload protection
- Excellent heat dissipation, ensuring long motor life
- 100% speed controllable
- Permanently lubricated sealed ball bearings
- Terminal box with prewired electrical strip
- Mixed flow impeller design incorporates high flow with higher pressure, non-overloading characteristics.
- UL Listed
- 3 year warranty



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.

Applications



Specification Data

Model	Rated power	Voltage / phase	Max amps	RPM	0.0" P _s	0.25" P _s	0.5" P _s	0.75" P _s	1.0" P _s	1.5" P _s	2.0" P _s	Sones ¹	Shipping weight	
	W	V / ~	A	min ⁻¹	cfm							lbs	kg	
FSD 18	517	120/1	4.80 ²	1700	2463	2237	1987	1644	1180	-	-	12.4	65	29
FSD 20	753	120/1	6.36 ²	1600	3225	2921	2605	2241	1829	815	-	14.1	81	38
FSD 22	1554	120/1	15.00 ³	1600	5223	4918	4605	4282	3865	2716	1308	21.0	111	50
FSD 26	2328	460/3	3.82 ²	1700	6993	6644	6317	5981	5608	4681	3469	27.0 ⁴	134	61

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

¹The sound ratings shown are loudness values in fan sones at 5 ft. (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 sones are calculated at 0.5" (static pressure in inches W.G.)

⁴ Sone Value at 0.75" (static pressure in inches W.G.)

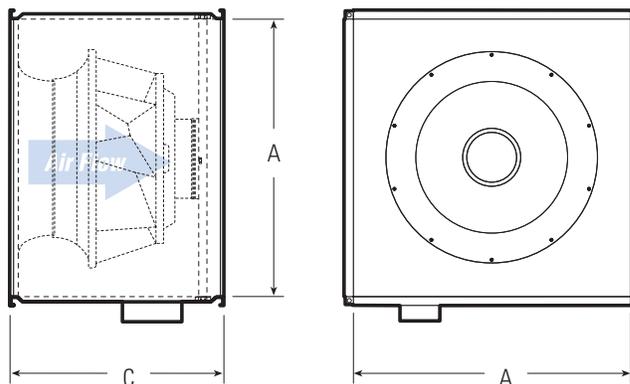
² Recommended speed control rating 10A. ³ Recommended speed control rating 15A

Dimensions

Model	A	C
FSD 18	17 5/8 (448)	15 3/4 (400)
FSD 20	19 3/4 (502)	17 3/4 (451)
FSD 22	21 1/2 (546)	19 (483)
FSD 26	26 (660)	20 (508)

All dimensions in inches (mm).

Note: Flanges extend 7/8" beyond the A dimension.



Accessories



WC 15
Speed Control

RPE
Speed Control

Customer Support:

Canada 800.565.3548 • CANADAsupport@fantech.net • www.fantech.net

Fantech reserves the right to modify, at any time and without notice, any or all of its products' features, designs, components and specifications to maintain their technological leadership position.