

## FKD SERIES

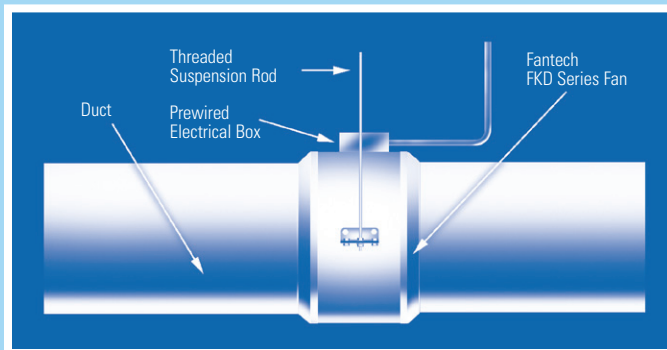
### ROUND INLINE MIXED FLOW CENTRIFUGAL FANS

Fantech FKD direct drive, mixed flow centrifugal fans blend the high flow of axial fans with the higher pressure, non-overloading characteristics of backward curved impellers. An excellent choice for exhaust or supply applications where quieter performance and easy installation are important. Perfect for commercial and institutional structures such as offices, hospitals, beauty salons, veterinary clinics as well as residential applications such as kitchen range hood exhaust.

FKD straight-through inline design fans are available in a wide range of sizes for easy installation in duct sizes from 8" to 20". Fans can be mounted at any angle at any point along the duct work. Motors are capable of operating in airstream temperatures up to 140° F. Motor bearings are permanently sealed, self lubricating ball type.

#### 100% Speed Controllable

All FKD fans are 100% speed controllable through voltage reduction allowing for on-demand ventilation or precision balancing of systems.

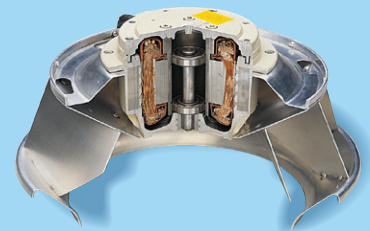


Fantech Inc. and Systemair Inc. certify that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## EXTERNAL ROTOR MOTORS

All FKD 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.



## HARD WORKING. LONG LASTING. HERE'S WHY:

- Galvanized steel housing
- External rotor motor with built-in thermal overload protection and automatic reset
- Mixed flow impeller
- Permanently lubricated sealed ball bearings
- Excellent heat dissipation to ensure long motor life
- Suitable for airstream temperatures up to 140° F
- 100% speed controllable
- Terminal box with prewired electrical strip
- Three-year warranty



## 12 MODELS TO CHOOSE FROM:

- 8" to 20" duct diameters
- 836 to 6291 CFM
- 100% speed controllable
- Rated for airstream temperatures up to 140° F
- Three-year factory warranty

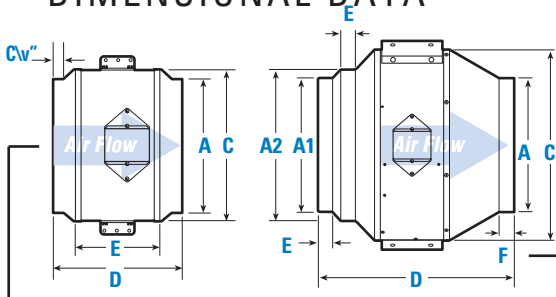
FKD 10

# FKD SERIES

## INLINE MIXED FLOW DUCT FANS



### DIMENSIONAL DATA



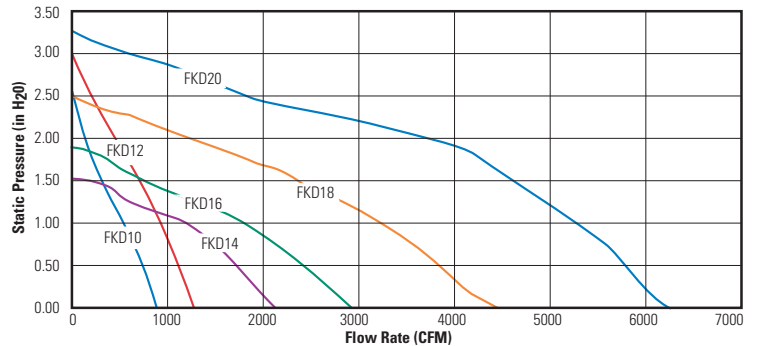
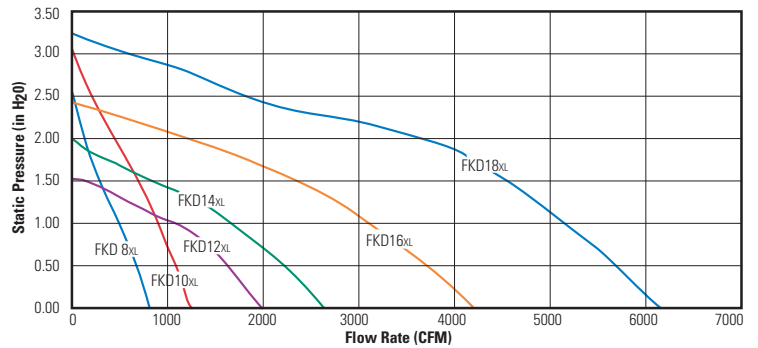
Fantech Inc. and Systemair Inc. certify that the FKD Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Model	A	A1	A2	C	D	E	F
FKD 8XL	8	—	—	12 <sup>1</sup> / <sub>2</sub>	15 <sup>1</sup> / <sub>2</sub>	7	—
FKD 10	10	—	—	12 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>2</sub>	7	—
FKD 10XL	10	—	—	14	15	8	—
FKD 12	12	—	—	14	12 <sup>1</sup> / <sub>2</sub>	8	—
FKD 12XL	12	12	14	17 <sup>7</sup> / <sub>8</sub>	18 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>
FKD 14	14	12	14	17 <sup>7</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>4</sub>	1	15 <sup>5</sup> / <sub>8</sub>
FKD 14XL	14	14	16	19 <sup>3</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>
FKD 16	16	14	16	19 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	15 <sup>5</sup> / <sub>8</sub>
FKD 16XL	16	16	18	22 <sup>1</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	15 <sup>5</sup> / <sub>8</sub>
FKD 18	18	16	18	22 <sup>1</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	15 <sup>5</sup> / <sub>8</sub>
FKD 18XL	18	18	20	22 <sup>1</sup> / <sub>4</sub>	29 <sup>1</sup> / <sub>4</sub>	2	13 <sup>3</sup> / <sub>4</sub>
FKD 20	20	18	20	22 <sup>1</sup> / <sub>4</sub>	27 <sup>1</sup> / <sub>4</sub>	2	13 <sup>3</sup> / <sub>4</sub>

All dimensions in inches.

### AIR PERFORMANCE GRAPHS



### PERFORMANCE DATA (For sound performance data refer to publication FKD0808.)

Fan Model	RPM	Voltage	Rated Watts	Max. Amps	Static Pressure in Inches W.G.											Max Ps.	Duct Dia.	Sones <sup>1</sup>
					0"	0.1"	0.2"	0.4"	0.6"	0.8"	1.0"	1.25"	1.5"	2.0"	2.50"			
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"	21.0	
FKD 12	2900	115	531	4.86 <sup>2</sup>	1305	1266	1228	1189	1145	1054	948	833	712	479	3.08"	12"	23.0	
FKD 12XL	1700	115	500	4.80 <sup>2</sup>	2016	1920	1832	1746	1649	1423	1066	606	—	—	1.52"	12"	18.7	
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"	25.0	
FKD 18	1600	115	1411	12.04 <sup>3</sup>	4448	4392	4130	3991	3871	3583	3239	2843	2380	1231	2.51"	18"	24.0	
FKD 18XL	1700	460/3	2208	3.75	6236	6115	5995	5874	5754	5500	5199	4909	4602	3703	3.24"	18"	32.0	
FKD 20	1750	460/3	2218	3.73	6291	6174	6054	5933	5829	5617	5307	4987	4667	3757	3.27"	20"	33.0	

Performance certified 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 (accessories).  
<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 hemispherical 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>2</sup> Recommended speed control rating 5A. <sup>3</sup> Recommended speed control rating 10A. <sup>4</sup> Recommended speed control rating 15A.

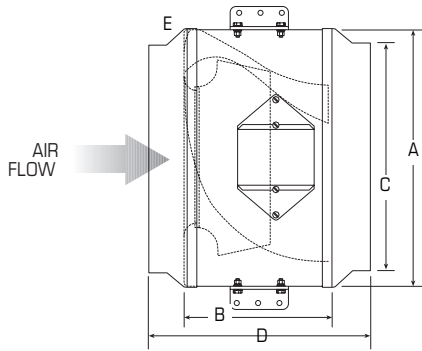


United States 10048 Industrial Blvd. • Lenexa, KS 66215 • 1.800.747.1762 • www.fantech.net  
 Canada 50 Kanalfakt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.net

Item #: 450396  
 Rev Date: 061412

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.

# FKD 12



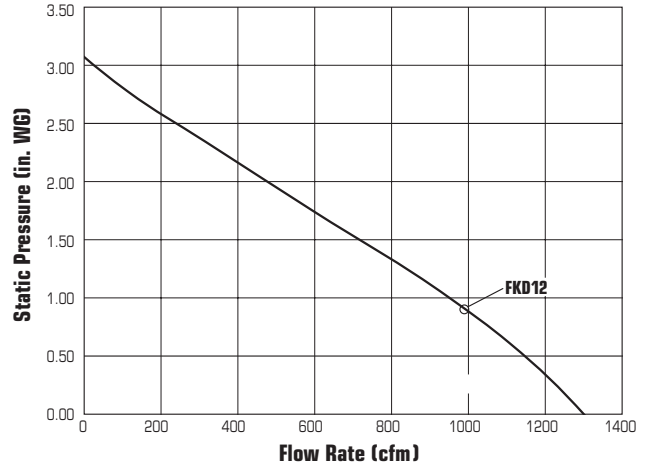
### Unit Specifications:

Housing Metal Thickness - 18 Gauge  
 Approximate Weight - 24 lbs.

All dimensions in inches.

### Dimensional Data

Model	A	B	C	D	E
FKD-12	14	8 1/2	12	12	3/4



### Air Performance Data

Model	Nom. RPM	Max. Watts	Max. Amps	Volts	Static Pressure in Inches W.G.										
					0.00"	.125"	.25"	.375"	.50"	.75"	1.00"	1.25"	1.50"	1.75"	2.00"
FKD-12	2900	531	4.86	115	1305	1266	1228	1189	1145	1054	948	833	712	592	479



Fantech, Inc. and Fantech Limited 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.



### Sound Data

Model	Nom. RPM	SP	Sound Power re 10-12 Watts								L <sub>wi</sub> dB(A)**	tSones
			Octave Bands, Hz									
			63	125	250	500	1000	2000	4000	8000		
FKD-12	2900	0.250	84	86	82	86	80	76	76	73	87	25
		0.500	82	85	81	85	79	75	75	72	86	23
		0.750	82	85	82	83	79	74	74	71	85	22
		1.000	85	85	83	83	78	73	72	70	84	22

Speed (RPM) shown in nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). Performance certified is for installation Type D: ducted inlet, ducted outlet. The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. Values shown are for inlet L<sub>wi</sub> and L<sub>wiA</sub> sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effect of duct end correction.

† The sound ratings shown are loudness values in fan sones at 5ft. (1.5m) from the test inlet duct in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction.

\*Units using speed control are not licensed to bear the AMCA Seal.

\*\*dB(A) levels are not licensed by AMCA International.

For Speed Control Options call Fantech Technical Support 1.800.747.1762