

**TUBEAXIAL FANS**

Models: TXD, TXB  
Direct Drive and Belt Drive

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FanSizer software allows you to select the best centrifugal or axial unit for your application. Input CFM and static pressure, and FanSizer will make the optimum selection. It allows you to complete job schedules which you can store, modify and print in seconds. Features include: on-line help, on-screen product drawings and dimensions, and complete text specifications. In addition, you can convert job schedules to ASCII code for use with other programs like word processing.

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Following publication of this catalog changes may have been made in standard equipment, options and the like that would not be included.

We reserve the right to make changes at any time, without notice, to models, specifications, options, availability, etc.

This bulletin illustrates the appearance of PennBarry products at the time of publication and we reserve the right to make changes in design and construction at anytime without notice. Your local sales representative is the best source for current information.

# Features and Benefits

## TXD, TXB - Tubeaxial Fans

### Tubeaxial Application

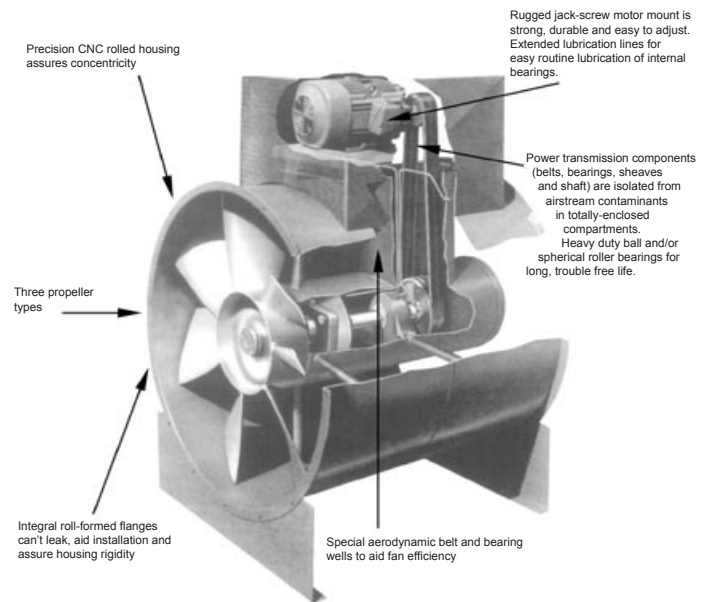
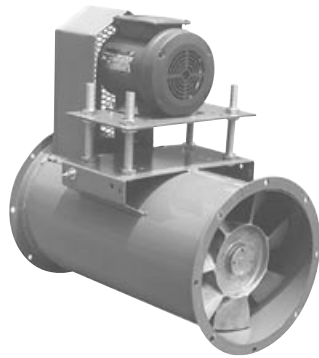
PennBarry tubeaxial fans are designed for use in low to medium pressure ducted applications. They are generally used for removing contaminated air or hot air found in industrial applications. They can also be used to supply air through duct work for cooling or pressurizing interior spaces. Tubeaxial fans are very versatile and compact units that move large volumes of air in duct systems having relatively low pressure losses.

Tubeaxial fans are sensitive to the installed inlet and outlet conditions, as are all fans, so the user should be aware that the way the fan is installed can have a significant effect on the fan performance.

Tubeaxial fans are normally used in duct systems, so they are tested and rated under conditions that simulate a normal application. Tubeaxial fans are tested with an inlet bell to simulate an inlet duct and three (3) diameters of straight duct on the discharge. Under these conditions the flow of air at the inlet is evenly distributed over the fan inlet area. Since the air leaving the fan has a non-uniform swirl velocity imparted by the propeller, the length of straight duct on the discharge is necessary to allow the air to develop a normal velocity profile.

When tubeaxial fans are installed with elbows, or other duct elements near the inlet, the air distribution entering the fan will be uneven causing a loss in performance. Similarly, elbows, changes in duct areas, or other disturbances at the fan discharge will not allow the normal velocity profile to develop, and will result in loss of performance. Also, because of the high localized velocities at the fan discharge, the losses in elbows or other fittings will be higher than predicted from duct fitting loss data. AMCA Bulletin 201, "Fans and Systems" provides system effect factors for various inlet and outlet conditions that need to be included in the system's total pressure loss calculation. Including these losses will allow the system designer to properly calculate the fan total or static pressure requirements of the system.

The recommended practice for tubeaxial fan installation is to have a minimum of three (3) diameters of straight duct before the inlet and after the fan discharge. Turning vanes should always be used in any elbows or other fittings near the inlet or outlet to maintain even velocity distribution and minimize fitting pressure losses.



### Features and Capabilities

- Wheel sizes from 12" through 96"
- Volumes exceeding 150,000 CFM
- Static pressure to 2.5" w.g.
- High efficiency tubeaxial uses up to 67% less energy than conventional tubeaxial fans
- Each unit is dynamically balanced and factory tested prior to shipment
- Heavy duty alkyd resin enamel paint
- Spark-proof construction available
- Oversized shafting
- 40,000-hour L<sub>10</sub> bearings
- 1.5 drive service factor
- Adjustable motor base
- More efficient than most tubeaxials
- Operates in any position

# Features and Benefits

TXD, TXB - Tubeaxial Fans

## Model Types

### Direct Drive (TXD-091 and TXD-097)

Economically priced and economical to operate. A veteran performer in thousands of tough, demanding applications. The compact design is virtually maintenance-free, since no adjustments are necessary. Complete selection of blade configurations, motor speeds and fan sizes meets full range of CFM requirements.



TXD Direct Drive

### Belt Drive (TXB-091 and TXB-097)

The workhorse of belt driven duct fans. Ideal for moving air with corrosive elements because the motor is totally isolated from the airstream. Extra years of service are built in with a rugged, oversized shafting and wide bladed, slow speed propeller or a cast aluminum propeller.



TXB Belt Drive

### High Efficiency Belt or Direct Drive (TXD-098 and TXB-098)

Uses up to 67% less energy than conventional tubeaxial fans! Aerodynamic design of cast aluminum prop stretches energy dollars, and special heavy-duty features assure years of trouble free service. Excellent choice when saving energy dollars is important.

## Propeller Types



### Six-Blade Propeller (models TXD-091 and TXB-091)

- Wide variety of available pitches makes selection easy, accurate
- Rustproof materials are standard for ordinary factory environments
- Design is rugged, simple

Number of blades: 6  
Construction Material: Cast Aluminum  
Options Available: Adjustable Pitch



### Slowspeed Propeller (models TXD-097 and TXB-097)

- Limited variety of pitches allows some variation in performance
- Broad blades perform at low speed for low noise output

Number of blades: 6  
Construction Material: Fabricated Steel (standard)  
Stainless Steel (optional)



### Tubeaxial Propeller (models TXD-098 and TXB-098)

- Very high mechanical efficiency
- Simple, rugged design and construction
- Variety of pitches allows performance variation

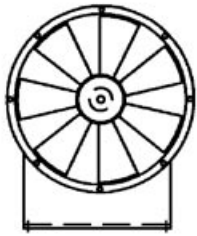
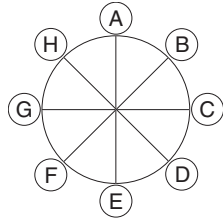
Number of blades: 7  
Construction Material: Cast Aluminum  
Options Available: Special Pitch Angles

# Options and Accessories

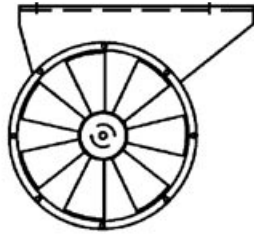
TXD, TXB - Tubeaxial Fans

## Construction and Mounting Options

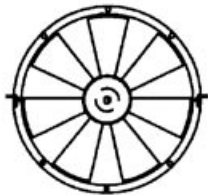
All units come standard with pre-drilled inlet and outlet flanges. Additional mounting options are shown below.



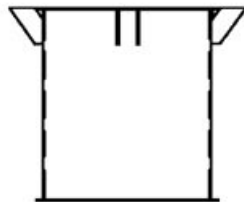
Horizontal Mounting Bracket  
9F Motor Position "A", "B", and "H"  
9C Motor Position "D", "E", and "F"



Offset Horizontal Mounting Bracket  
Motor Position "C" and "G"



Horizontal Mounting Rails  
Motor Positions "A" and "E"



Vertical Mounting Clips  
Intake or Discharge End

## Inlet/Outlet Cones

Inlet cones do not affect fan performance but are used to match the size of the inlet duct to the fan casing, when the latter is of a different size.

The outlet cone expands the casing to fit the usual duct size and converts the excess velocity to useful pressure.



Inlet/Outlet Cone

## Disconnect Switch

NEMA 1, 3R, 4X and 7/9 disconnect switches are offered. All disconnect switches are available mounted and unwired, mounted and wired, or shipped loose.



Disconnect Switch

## Access Door

Access doors are mounted on a fan casing to provide access to the fan interior for maintenance inspection.



Access Door

## Belt Guard

Designed to cover a belt drive mechanism. Its principal function is to guard against human injury. Includes a removable sheetmetal enclosure attached to the housing and motor support.



Belt Guard

## Motor Cover

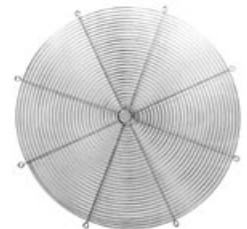
Motor covers, which are used for all weather protection, enclose the motor, motor sheave and belts.



Motor Cover

## Inlet/Outlet Guards

Guards are to be used with an open inlet or outlet. Inlet/outlet guards repel foreign matter and provide safety.



Inlet/Outlet Guard

## Variable Inlet Vanes

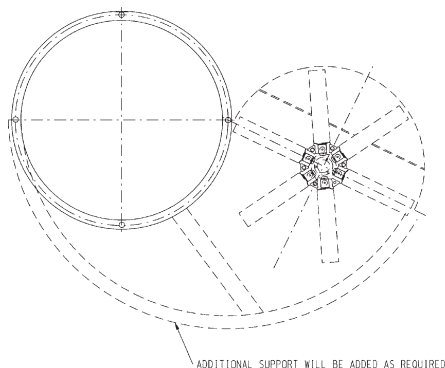
Air volume control device mounted on the fan inlet. It is composed of several blades mounted radially on shafts. The position of the blades may be changed by rotating the shafts, and the area through which the air might pass is increased or decreased as required. The variable inlet vane also acts to pre-spin the air as it enters the fan. The maximum velocity is 3000 FPM, the maximum pressure at block-off is 7" SP and the maximum temperature is 250° F. A manual lever is included.



Variable Inlet Vane

### SwingOut Design

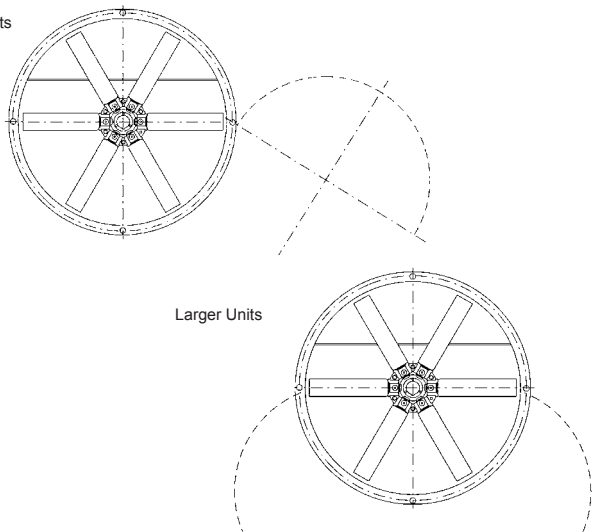
SwingOut design fans enable routine cleaning and maintenance operations to be performed without removing the fan from the system. This is accomplished by hinging the casing and allowing the fan integrals to “swingout” with the hinged section while the casing remains attached to the ductwork. By providing quick and easy access to all internal parts, including the motor, shaft, wheel and bearings, maintenance is greatly simplified and costly downtime is minimized. This design is available for vertical mounting.



### Full Access Design

Quick access to the fan interior is accomplished by a hinged outer section. This section opens 180° to provide plenty of room and freedom for most types of maintenance or service tasks. All internal parts can be accessed via a removable access panel, enabling wheel shaft and bearings removal as a complete unit. This feature will save many hours of maintenance costs since the fan need not be removed from the system to keep it clean and operating efficiently. This design is available for both horizontal ceiling hung and vertical mounting installations.

Smaller Units



### Optional Spraybooth Construction

This optional construction of the **TXB-098 (sizes 012 through 048 only)** offers design and construction features highly desirable for spraybooth and cleaning room applications. Ruggedly constructed from heavy gauge materials, these duct fans meet all normal system requirements through a large combination of fan speeds and fan sizes, as well as complete positioning flexibility. Oversized shafts permit operation well below critical shaft speeds. The enclosed belt and bearing housings keep belts, bearings, drives and shafts out of the contaminated airstream. Standard features include neoprene shaft seals and an easily adjustable motor base for maintaining proper belt tension.

### Widely Adaptable

Several standard fan speeds and fan sizes give complete coverage of the CFM capacity ranges normally required to meet spraybooth system requirements.

### Operates in Any Position

Uses space often wasted, such as corners, ceiling or walls, saving valuable floor space. Airflow can be horizontal, vertical up-flow, vertical down-flow or angular, all with in-line straight-through airflow. Expensive elbows, bends and transformations can often be avoided.

### Low Installation Cost

Needs no elaborate foundations and supports, making possible simple mounting when ductwork is properly braced.

### Pillowblock Bearings

Constructed with pillowblock bearings for long trouble-free operation and reduce maintenance cost. Extended lube lines are standard.

### Ruggedly Built

Solid welded construction and leakproof housing featuring rolled flanges at inlet and outlet.

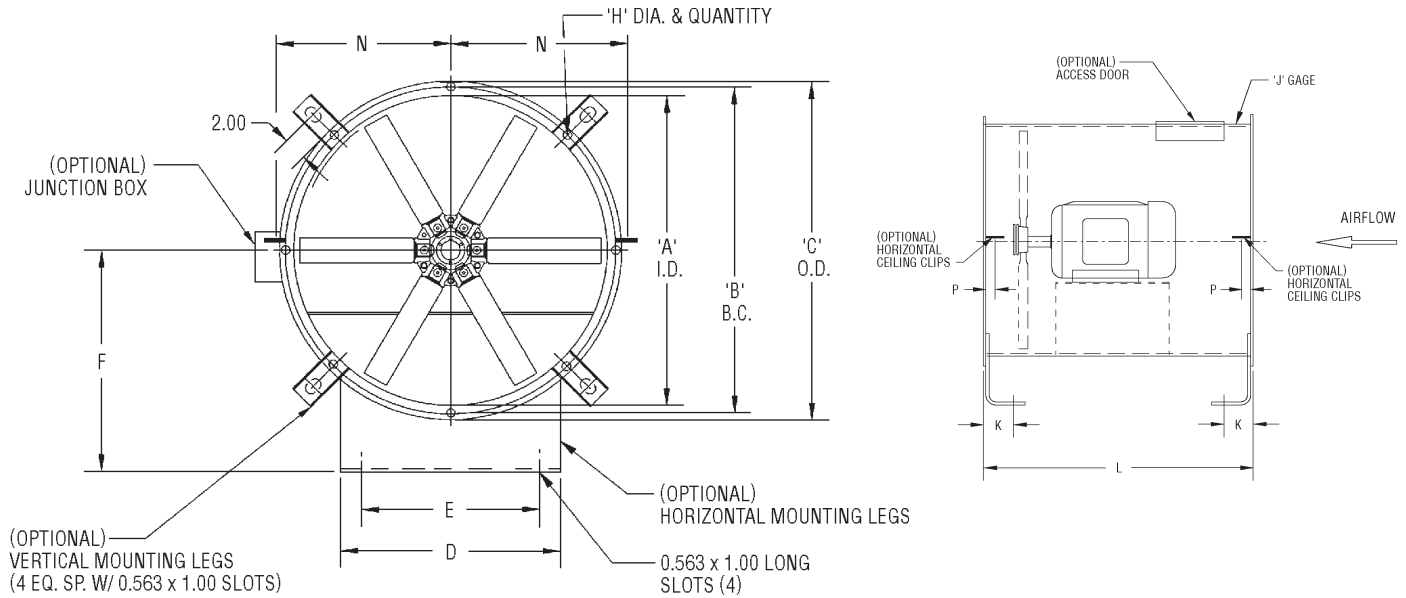
### Non-Sparking Aluminum Propeller

Cast from special high strength aluminum alloys, featuring latest true airfoil design. Drives and bearings are out of the airstream, also contributing to maintenance free operation.

# Direct Drive Fan Data

TXD - Tubeaxial Fan

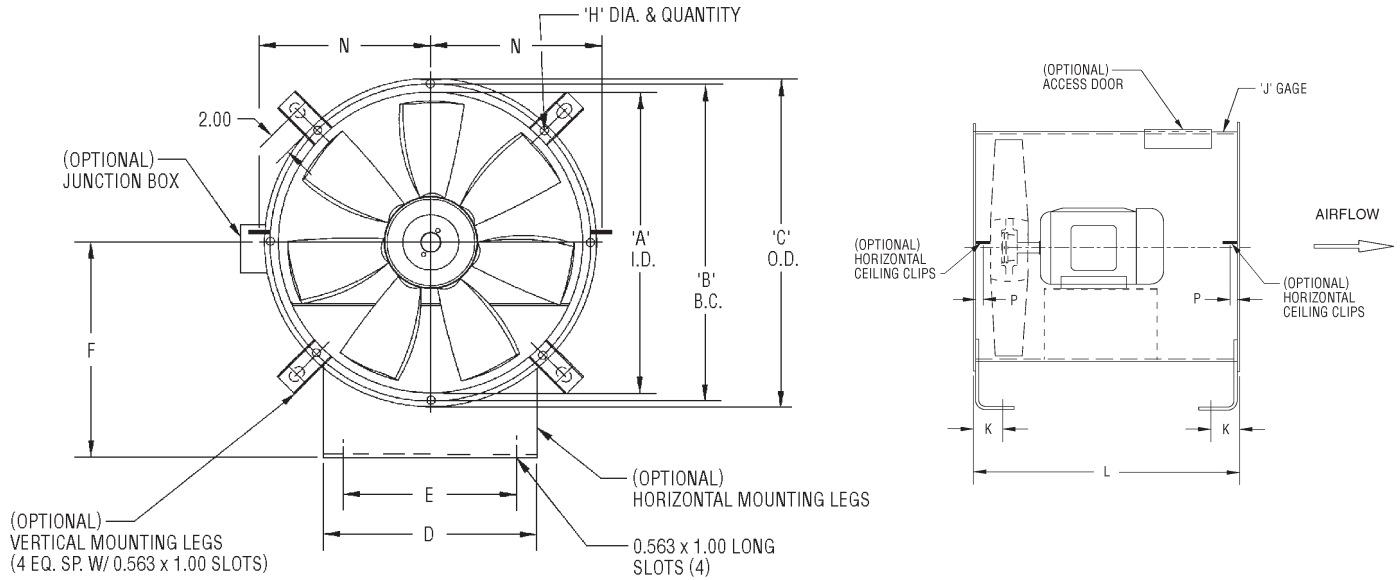
## Direct Drive, 091 and 097 Propeller



## Dimensions

SIZE	A	B	C	D	E	F	H	J	K	L, MTR. FRAME SIZE								N	P	UNIT WEIGHT	
										48-56	143-145	182-184	213-215	254-256	284-286	324-326	364-365				404-405
12"	12.19	13.50	14.38	11.00	9.00	11.00	.438-8	14	1.68	18.00	18.00	—	—	—	—	—	—	7.19	3.08	30	
15"	15.19	16.50	17.44	14.00	12.00	13.00	.438-8	12	1.71	18.00	18.00	24.00	—	—	—	—	—	8.69	3.10	50	
18"	18.19	19.81	21.19	17.00	15.00	14.50	.438-8	12	1.71	18.00	18.00	24.00	24.00	—	—	—	—	10.16	3.10	80	
21"	21.22	22.97	24.22	20.00	18.00	16.00	.438-8	12	1.71	18.00	18.00	24.00	24.00	—	—	—	—	12.17	3.10	100	
24"	24.25	26.06	27.25	22.00	18.00	18.00	.438-8	12	1.71	24.00	24.00	24.00	24.00	30.00	—	—	—	13.69	3.10	150	
27"	27.28	29.13	30.28	26.00	22.00	20.00	.438-8	12	1.71	24.00	24.00	24.00	24.00	30.00	—	—	—	15.22	3.10	170	
30"	30.31	32.19	33.31	29.00	25.00	21.50	.438-8	12	1.71	—	24.00	24.00	24.00	30.00	30.00	—	—	16.74	3.10	200	
32"	32.34	34.19	35.34	31.00	27.00	23.00	.438-16	12	1.71	—	24.00	24.00	24.00	30.00	30.00	—	—	17.75	3.10	250	
36"	36.38	38.19	39.38	35.00	31.00	25.00	.438-16	10	1.73	—	24.00	24.00	24.00	30.00	36.00	36.00	—	—	19.75	3.13	350
42"	42.44	44.81	46.44	40.00	36.00	29.00	.563-16	10	1.73	—	—	24.00	30.00	30.00	36.00	36.00	—	—	23.28	3.13	450
48"	48.50	50.88	52.50	46.00	42.00	33.25	.563-16	10	1.73	—	—	24.00	30.00	30.00	36.00	36.00	36.00	—	26.31	3.13	550
54"	54.56	57.00	58.56	52.00	48.00	36.25	.563-16	7	1.78	—	—	—	—	36.00	36.00	42.00	42.00	48.00	29.38	3.18	900
60"	60.63	63.00	64.63	56.00	52.00	39.25	.563-16	7	1.78	—	—	—	—	36.00	36.00	42.00	42.00	48.00	32.38	3.18	1050
72"	72.75	75.13	76.88	60.00	56.00	45.38	.563-16	0.25	1.78	—	—	—	—	42.00	42.00	48.00	48.00	54.00	39.38	4.00	1400

### Direct Drive, 098 Propeller



### Dimensions

SIZE	A	B	C	D	E	F	H	J	K	L, MTR. FRAME SIZE								N	P	UNIT WEIGHT	
										48-56	143-145	182-184	213-215	254-256	284-286	324-326	364-365				404-405
12"	12.19	13.50	14.38	11.00	9.00	11.00	.438-8	14	1.68	18.00	18.00	—	—	—	—	—	—	7.19	3.08	30	
15"	15.19	16.50	17.44	14.00	12.00	13.00	.438-8	12	1.71	18.00	18.00	24.00	—	—	—	—	—	8.69	3.10	50	
18"	18.19	19.81	21.19	17.00	15.00	14.50	.438-8	12	1.71	18.00	18.00	24.00	24.00	—	—	—	—	10.16	3.10	80	
21"	21.22	22.97	24.22	20.00	18.00	16.00	.438-8	12	1.71	18.00	18.00	24.00	24.00	—	—	—	—	12.17	3.10	100	
24"	24.25	26.06	27.25	22.00	18.00	18.00	.438-8	12	1.71	24.00	24.00	24.00	24.00	30.00	—	—	—	13.69	3.10	150	
27"	27.28	29.13	30.28	26.00	22.00	20.00	.438-8	12	1.71	24.00	24.00	24.00	24.00	30.00	—	—	—	15.22	3.10	170	
30"	30.31	32.19	33.31	29.00	25.00	21.50	.438-8	12	1.71	—	24.00	24.00	24.00	30.00	30.00	—	—	16.74	3.10	200	
32"	32.34	34.19	35.34	31.00	27.00	23.00	.438-16	12	1.71	—	24.00	24.00	24.00	30.00	30.00	—	—	17.75	3.10	250	
36"	36.38	38.19	39.38	35.00	31.00	25.00	.438-16	10	1.73	—	24.00	24.00	24.00	30.00	36.00	36.00	—	19.75	3.13	350	
42"	42.44	44.81	46.44	40.00	36.00	29.00	.563-16	10	1.73	—	—	24.00	30.00	30.00	36.00	36.00	—	23.28	3.13	450	
48"	48.50	50.88	52.50	46.00	42.00	33.25	.563-16	10	1.73	—	—	24.00	30.00	30.00	36.00	36.00	36.00	26.31	3.13	550	
54"	54.56	57.00	58.56	52.00	48.00	36.25	.563-16	7	1.78	—	—	—	—	36.00	36.00	42.00	42.00	48.00	29.38	3.18	900
60"	60.63	63.00	64.63	56.00	52.00	39.25	.563-16	7	1.78	—	—	—	—	36.00	36.00	42.00	42.00	48.00	32.38	3.18	1050
72"	72.75	75.13	76.88	60.00	56.00	45.38	.563-16	0.25	1.78	—	—	—	—	42.00	42.00	48.00	48.00	54.00	39.38	4.00	1400

- Note:**
1. Approximate fan weights are less motor, drive and accessories.
  2. Size 72" fans with horizontal ceiling clips will have 3 clips per side, rather than the standard two clips.
  3. Sizes 60" and 72" are available with a 091 wheel only.
  4. Dimensions should not be used for construction. Certified drawings are available upon request.



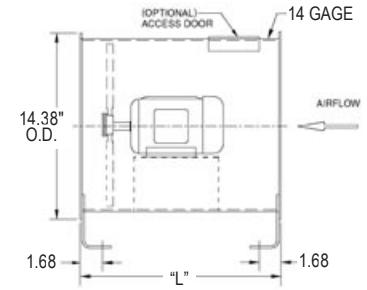
# Direct Drive Fan Data

TXD-091 Tubeaxial Fan

## 012

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00

Prop Diameter = 12 in.
Maximum RPM = 3450
Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq. ft.)

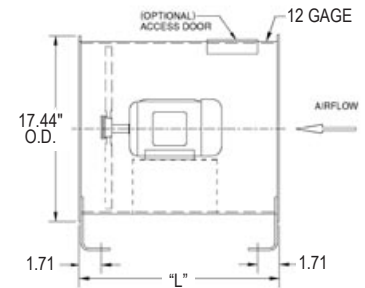


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1750	14	454	0.01	289	0.02										
	18	948	0.02	654	0.03										
	22	1092	0.03	798	0.04										
	26	1162	0.04	866	0.04										
	30	1270	0.05	973	0.05										
3450	14	895	0.10	836	0.14	739	0.15	561	0.16						
	18	1869	0.17	1722	0.19	1568	0.20	1270	0.22						
	22	2154	0.25	1987	0.27	1841	0.28	1557	0.30						
	26	2291	0.29	2129	0.31	1982	0.32	1691	0.34						
	30	2503	0.38	2332	0.39	2180	0.41	1896	0.42						

## 015

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00

Prop Diameter = 15 in.
Maximum RPM = 3450
Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1.26 sq. ft.)



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1750	14	887	0.04	685	0.06										
	18	1852	0.07	1487	0.08	1049	0.09								
	22	2134	0.10	1756	0.11	1366	0.12								
	26	2270	0.12	1894	0.13	1479	0.14								
	30	2480	0.15	2095	0.16	1698	0.17								
3450	14	1748	0.31	1674	0.39	1580	0.44	1338	0.46						
	18	3651	0.53	3479	0.56	3266	0.60	2910	0.64	1989	0.68				
	22	4206	0.75	3999	0.80	3792	0.84	3442	0.88	2629	0.92				
	26	4475	0.90	4272	0.92	4075	0.95	3713	1.01	2846	1.05				
	30	4889	1.17	4675	1.19	4471	1.21	4110	1.25	3299	1.28				

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

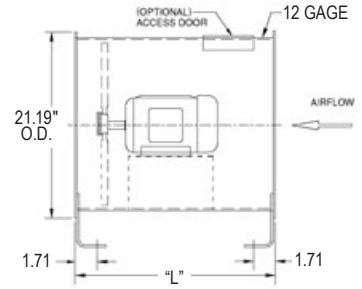
# Direct Drive Fan Data

Tubeaxial Fan TXD-091

## 018

Prop Diameter = 18 in.
Maximum RPM = 3450
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00

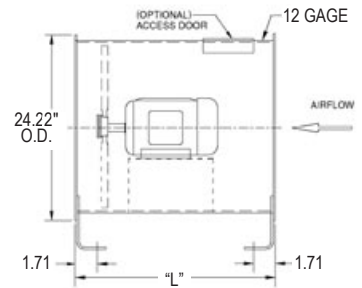


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1150	14	1007	0.03	631	0.04										
	18	2103	0.05	1428	0.06										
	22	2423	0.07	1751	0.08										
	26	2577	0.08	1903	0.09										
	30	2816	0.11	2133	0.12										
1750	14	1532	0.10	1310	0.15	1032	0.15								
	18	3200	0.17	2745	0.20	2320	0.22								
	22	3687	0.24	3217	0.28	2800	0.29								
	26	3922	0.29	3461	0.31	3032	0.33								
	30	4285	0.38	3803	0.40	3393	0.41								
3450	14	3020	0.78	2932	0.91	2844	1.04	2566	1.12	2008	1.18	1765	1.16		
	18	6309	1.33	6102	1.38	5878	1.43	5389	1.54	4524	1.66	4025	1.69	3025	1.64
	22	7269	1.88	7019	1.95	6770	2.02	6317	2.13	5471	2.25	5038	2.27	4383	2.28
	26	7732	2.24	7489	2.28	7247	2.32	6799	2.42	5927	2.55	5422	2.58	4740	2.60
	30	8448	2.91	8191	2.95	7935	2.98	7472	3.06	6643	3.15	6113	3.18	5521	3.18

## 021

Prop Diameter = 21 in.
Max. RPM = 1750
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	1209	0.03												
	18	2526	0.05	1371	0.06										
	22	2911	0.07	1815	0.08										
	26	3096	0.08	1965	0.09										
	30	3383	0.10	2279	0.11										
1150	14	1599	0.06	1160	0.09										
	18	3339	0.11	2558	0.13										
	22	3847	0.15	3054	0.18										
	26	4093	0.18	3298	0.20	2194	0.20								
	30	4471	0.23	3668	0.25										
1750	14	2433	0.22	2202	0.31	1867	0.32								
	18	5081	0.37	4552	0.42	4060	0.45	2802	0.48						
	22	5855	0.53	5282	0.59	4800	0.62	3686	0.64						
	26	6228	0.63	5677	0.67	5177	0.71	3991	0.73						
	30	6804	0.82	6228	0.85	5729	0.87	4612	0.90						

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

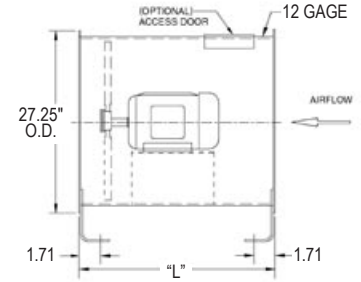
# Direct Drive Fan Data

TXD-091 Tubeaxial Fan

## 024

Prop Diameter = 24 in.
Max. RPM = 1750
Tip Speed. FPM = 6.28 x RPM.
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	24.00
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00

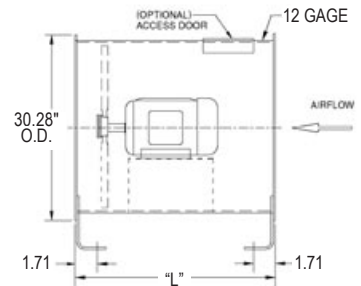


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	1805	0.05	1142	0.08										
	18	3771	0.09	2585	0.11										
	22	4345	0.13	3161	0.15										
	26	4622	0.15	3432	0.17										
	30	5049	0.20	3852	0.21										
1150	14	2386	0.12	1906	0.18	1382	0.18								
	18	4985	0.21	4098	0.25	3154	0.26								
	22	5743	0.29	4815	0.34	3957	0.36								
	26	6109	0.35	5190	0.39	4253	0.40								
	30	6675	0.45	5723	0.48	4802	0.50								
1750	14	3631	0.43	3400	0.59	3021	0.62	2311	0.65						
	18	7585	0.73	7008	0.79	6394	0.85	5232	0.92						
	22	8740	1.03	8084	1.12	7502	1.18	6384	1.24						
	26	9297	1.23	8659	1.28	8078	1.34	6930	1.41						
	30	10157	1.60	9484	1.65	8883	1.69	7784	1.74						

## 027

Prop Diameter = 27 in.
Max. RPM = 1750
Tip Speed. FPM = 7.07 x RPM.
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	24.00
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	2570	0.10	1819	0.14										
	18	5369	0.16	4041	0.20										
	22	6186	0.23	4842	0.27										
	26	6581	0.27	5233	0.31										
	30	7190	0.35	5831	0.38										
1150	14	3398	0.22	2887	0.32	2259	0.33								
	18	7097	0.37	6063	0.43	5090	0.47								
	22	8177	0.53	7107	0.60	6155	0.63								
	26	8698	0.63	7649	0.68	6668	0.72								
	30	9504	0.82	8406	0.86	7473	0.89								
1750	14	5170	0.77	4910	1.00	4529	1.10	3679	1.16						
	18	10800	1.31	10188	1.41	9405	1.50	8158	1.63						
	22	12444	1.86	11706	1.99	11011	2.09	9770	2.22						
	26	13237	2.22	12519	2.29	11842	2.37	10555	2.51						
	30	14462	2.89	13704	2.95	13004	3.01	11758	3.10						

- Notes:
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.

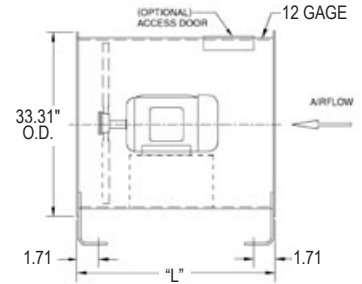
# Direct Drive Fan Data

Tubeaxial Fan TXD-091

## 030

Prop Diameter = 30 in.
Max. RPM = 1750
Tip Speed. FPM = 7.85 x RPM.
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 286	30.00
284 - 286	30.00

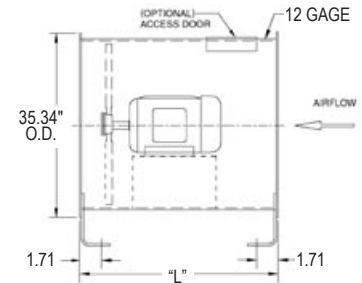


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	5746	0.19	4554	0.25										
	18	7664	0.29	6163	0.36										
	22	8880	0.45	7417	0.50										
	26	9529	0.53	8029	0.59										
	30	10086	0.65	8669	0.69										
1150	14	7596	0.43	6684	0.54	5829	0.59								
	18	10131	0.66	8872	0.77	7906	0.83								
	22	11738	1.03	10634	1.12	9513	1.18								
	26	12596	1.24	11241	1.32	10406	1.38								
	30	13332	1.50	12239	1.55	11195	1.62								
1750	14	11558	1.51	11001	1.71	10380	1.86	9185	2.03						
	18	15416	2.34	14606	2.50	13729	2.66	12426	2.88						
	22	17863	3.62	17123	3.76	16401	3.89	14953	4.09						
	26	19169	4.37	18266	4.48	17380	4.60	16175	4.81						
	30	20287	5.30	19555	5.36	18844	5.43	17470	5.64						

## 032

Prop Diameter = 32 in.
Max. RPM = 1750
Tip Speed. FPM = 8.38 x RPM.
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 286	30.00
284 - 286	30.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	7863	0.25	6378	0.32	4578	0.35								
	18	9194	0.37	7578	0.46	6099	0.49								
	22	10676	0.59	9133	0.66	7815	0.70								
	26	11495	0.71	9893	0.78	8483	0.82								
	30	12016	0.85	10561	0.90	9098	0.93								
1150	14	10394	0.57	9216	0.68	8209	0.76	4523	0.78						
	18	12153	0.86	10745	0.99	9784	1.07	6496	1.12						
	22	14112	1.36	12986	1.46	11752	1.54	9481	1.62						
	26	15195	1.64	13635	1.74	12898	1.82	10038	1.88						
	30	15884	1.96	14794	2.01	13677	2.11	10960	2.13						
1750	14	15817	2.00	15061	2.19	14281	2.36	12856	2.61	9376	2.89	5049	2.64		
	18	18493	3.03	17552	3.23	16611	3.44	15272	3.71	12409	4.01	7007	3.72		
	22	21475	4.80	20735	4.94	19995	5.09	18409	5.34	15785	5.70	11866	5.45		
	26	23123	5.80	22097	5.94	21072	6.08	19922	6.34	17150	6.63				
	30	24171	6.90	23455	6.97	22738	7.04	21278	7.33	18383	7.60				

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.

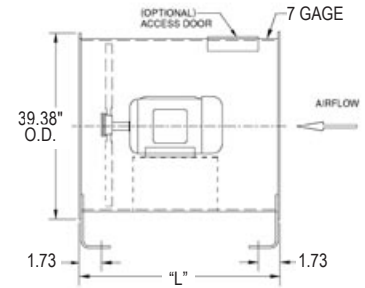
# Direct Drive Fan Data

TXD-091 Tubeaxial Fan

## 036

Prop Diameter = 27 in.
Max. RPM = 1750
Tip Speed, FPM = 7.07 x RPM.
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 286	30.00
284 - 286	36.00
324 - 326	36.00

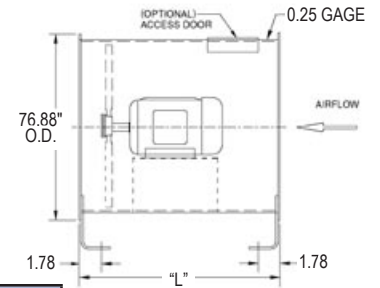


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	14	11196	0.44	9428	0.56	7915	0.62								
	18	13090	0.67	11174	0.80	9852	0.87								
	22	15201	1.06	13504	1.16	11832	1.23								
	26	16368	1.28	14366	1.38	13068	1.44								
	30	17109	1.53	15481	1.59	13869	1.67								
1150	14	14799	1.02	13492	1.19	12213	1.32	9632	1.46						
	18	17303	1.55	15692	1.74	14494	1.88	12270	2.03						
	22	20093	2.45	18826	2.59	17490	2.71	15139	2.89						
	26	21635	2.96	19880	3.10	18788	3.22	16648	3.36						
	30	22616	3.53	21390	3.60	20144	3.72	17743	3.88						
1750	14	22521	3.60	21670	3.87	20820	4.14	18994	4.56	16006	5.07	13607	5.22	9010	4.91
	18	26331	5.46	25272	5.75	24213	6.04	22510	6.49	19875	7.03	17874	7.22	13254	7.05
	22	30577	8.65	29744	8.85	28911	9.06	27206	9.45	23860	10.00	22556	10.20	19778	10.20
	26	32923	10.40	31769	10.60	30616	10.90	28921	11.20	26357	11.70	24551	11.90	21217	11.90
	30	34415	12.40	33610	12.50	32804	12.60	31179	12.90	27968	13.60	26300	13.70	23154	13.70

## 042

Prop Diameter = 42 in.
Max. RPM = 1150
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
182 - 184	24.00
213 - 215	24.00
254 - 286	30.00
284 - 286	36.00
324 - 326	36.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	14	14203	0.49	11709	0.63	9196	0.70								
	18	16605	0.74	13897	0.90	11739	0.97								
	22	19283	1.17	16769	1.29	14506	1.38								
	26	20763	1.41	18022	1.54	15941	1.60								
	30	21704	1.68	19318	1.77	17002	1.85								
870	14	17779	0.96	15734	1.15	13998	1.28	7359	1.31						
	18	20787	1.45	18355	1.67	16695	1.81	10755	1.88						
	22	24139	2.30	22184	2.46	20039	2.60	15993	2.73						
	26	25991	2.77	23284	2.94	22028	3.08	16915	3.17						
	30	27169	3.30	25278	3.38	23339	3.57	18464	3.63						
1150	14	23501	2.21	21991	2.49	20388	2.72	17859	3.03	5395	2.83				
	18	27477	3.35	25597	3.65	23939	3.91	21512	4.24	7142	4.02				
	22	31907	5.30	30429	5.52	28951	5.73	25712	6.07						
	26	34356	6.41	32308	6.62	30506	6.83	28458	7.15						
	30	35913	7.63	34482	7.73	33052	7.84	30141	8.31						

- Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

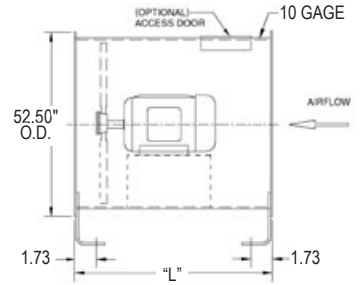
# Direct Drive Fan Data

Tubeaxial Fan TXD-091

## 048

Prop Diameter = 48 in.
Max. RPM = 1150
Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
182 - 184	24.00
213 - 215	30.00
254 - 256	30.00
284 - 286	36.00
324 - 326	36.00
364 - 365	36.00

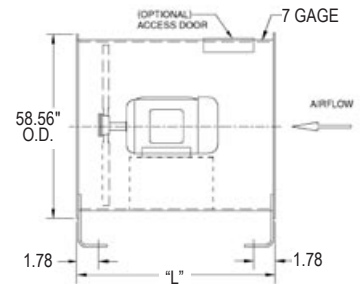


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	14	21200	0.95	18251	1.18	15825	1.31								
	18	24787	1.44	21485	1.69	19215	1.83	5267	1.76						
	22	28784	2.28	25988	2.47	22994	2.62								
	26	30993	2.76	27440	2.95	25437	3.08								
	30	32398	3.28	29690	3.38	26954	3.58								
870	14	26539	1.87	24237	2.17	21961	2.40	17506	2.67						
	18	31029	2.83	28189	3.17	26058	3.41	22206	3.70						
	22	36032	4.48	33799	4.72	31451	4.94	27269	5.26						
	26	38797	5.41	35703	5.65	33741	5.87	30053	6.11						
	30	40555	6.44	38394	6.56	36202	6.77	31961	7.07						
1150	14	35080	4.31	33355	4.73	31569	5.10	28363	5.66	19849	6.19	990	5.62		
	18	41015	6.53	38867	6.98	36718	7.43	33705	8.03	26733	8.65	12665	7.77		
	22	47628	10.30	45939	10.70	44249	11.00	40612	11.50	34250	12.30				
	26	51283	12.50	48943	12.80	46602	13.10	44063	13.70	37548	14.30				
	30	53608	14.90	51973	15.00	50338	15.20	47001	15.80	40309	16.40				

## 054

Prop Diameter = 54 in.
Max. RPM = 1150
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 364	42.00
404 - 405	48.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	14	30186	1.71	26904	2.05	24036	2.28	14737	2.42						
	18	35293	2.60	31313	2.98	28603	3.23	20498	3.42						
	22	40984	4.11	37839	4.39	34412	4.62	28287	4.90						
	26	44129	4.97	39771	5.24	37617	5.48	30314	5.60						
	30	46129	5.91	43085	6.05	39971	6.35	33122	6.52						
870	14	37786	3.36	35221	3.81	32483	4.18	28112	4.65						
	18	44179	5.10	40985	5.58	38257	5.98	34186	6.48	9002	6.22				
	22	51303	8.07	48791	8.41	46278	8.75	40917	9.28						
	26	55240	9.75	51759	10.10	48880	10.40	45259	10.90						
	30	57744	11.60	55313	11.80	52875	12.00	47964	12.70						
1150	14	49948	7.76	48007	8.36	46057	8.95	41958	9.87	35019	11.00	28848	11.20	17764	10.40
	18	58398	11.80	55981	12.40	53564	13.00	49738	14.00	43758	15.20	38551	15.60	25515	14.80
	22	67815	18.60	65914	19.10	64013	19.50	60096	20.40	52581	21.70	49505	22.10	40452	21.60
	26	73019	22.50	70385	23.00	67752	23.40	64008	24.30	58059	25.30	53765	25.80	36902	23.20
	30	76328	26.80	74489	27.00	72650	27.20	68935	27.90	61632	29.30	57680	29.50	49491	29.40

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

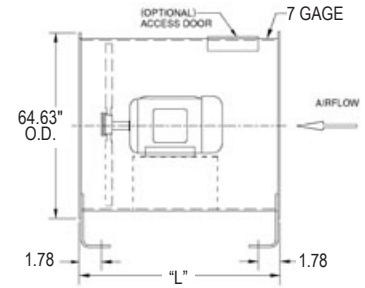
# Direct Drive Fan Data

TXD-091 Tubeaxial Fan

## 060

Prop Diameter = 60 in.
Max. RPM = 870
Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 365	42.00
404 - 405	48.00

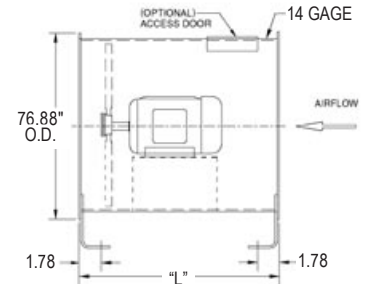


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	14	41407	2.90	37805	3.38	34249	3.74	27261	4.15						
	18	48413	4.40	43969	4.93	40640	5.31	34594	5.75						
	22	56219	6.97	52724	7.34	49048	7.69	42516	8.18						
	26	60533	8.41	55692	8.79	52632	9.13	46839	9.51						
	30	63277	10.00	59895	10.20	56464	10.50	49830	11.00						
870	14	51833	5.69	48983	6.31	45997	6.85	40988	7.61	23019	7.90				
	18	60603	8.63	57053	9.29	53612	9.93	48843	10.80	32832	11.30	11559	10.60		
	22	70375	13.70	67583	14.10	64792	14.60	58680	15.40	47483	16.30				
	26	75775	16.50	71908	17.00	68040	17.40	64365	18.30	50367	18.90				
	30	79210	19.60	76508	19.90	73807	20.10	68271	21.20	55000	21.60				

## 072

Prop Diameter = 72 in.
Max. RPM = 695
Tip Speed, FPM = 18.85 x RPM
Inlet & Outlet Diameter (Area) = 72.75 in. (28.87 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	42.00
284 - 286	42.00
324 - 326	48.00
364 - 365	48.00
404 - 405	54.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	14	71551	7.22	67270	8.08	62749	8.80	55521	9.80	22676	9.51				
	18	83657	11.00	78325	11.90	73418	12.70	66412	13.80	31311	13.40				
	22	97146	17.30	92953	18.00	88759	18.60	79473	19.70	53339	19.70				
	26	104602	20.90	98792	21.60	93268	22.20	87776	23.30						
	30	109342	24.90	105284	25.20	101226	25.60	92900	27.10						

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

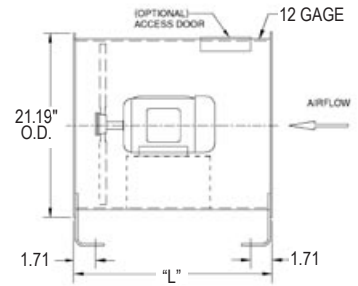
# Direct Drive Fan Data

Tubeaxial Fan TXD-097

## 018

Prop Diameter = 18 in.
Max. RPM = 1750
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00

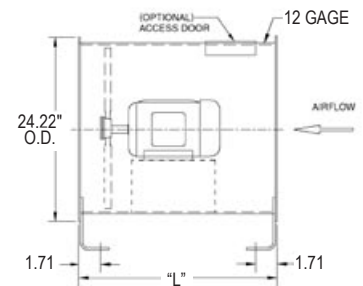


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1150	22	2669	0.14	2386	0.16	2060	0.18								
	28	3275	0.21	2918	0.23	2543	0.25								
1750	22	4062	0.49	3841	0.52	3675	0.55	3312	0.61						
	28	4984	0.74	4742	0.77	4505	0.81	4082	0.86						

## 021

Prop Diameter = 21 in.
Max. RPM = 1750
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00

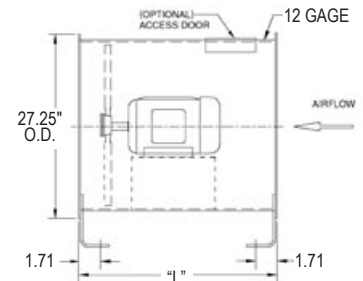


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1150	22	4238	0.30	3879	0.33	3595	0.36								
	28	5201	0.45	4772	0.49	4402	0.52								
1750	22	6450	1.05	6192	1.11	5954	1.16	5605	1.25	4346	1.40				
	28	7914	1.60	7632	1.65	7350	1.71	6849	1.80	5142	1.93				

## 024

Prop Diameter = 24 in.
Max. RPM = 1150
Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	24.00
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	22	4786	0.25	4286	0.29	3727	0.32								
	28	5873	0.38	5242	0.42	4592	0.45								
1150	22	6327	0.58	5878	0.64	5593	0.68	4568	0.76						
	28	7763	0.88	7273	0.94	6825	0.98	5644	1.07						

**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.



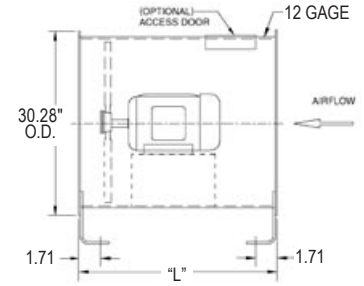
# Direct Drive Fan Data

TXD-097 Tubeaxial Fan

## 027

Prop Diameter = 27 in.
Max. RPM = 1150
Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	24.00
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00

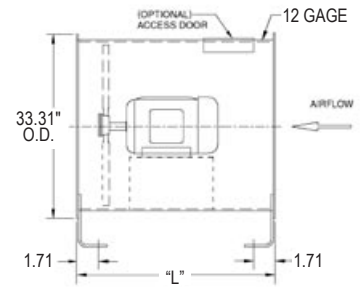


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BH
870	22	6815	0.45	6214	0.51	5712	0.56								
	28	8362	0.69	7633	0.75	7012	0.79								
1150	22	9008	1.05	8503	1.13	8133	1.19	7288	1.31						
	28	11053	1.59	10502	1.67	9964	1.74	8967	1.86						

## 030

Prop Diameter = 30 in.
Max. RPM = 1150
Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 1456	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	30.00

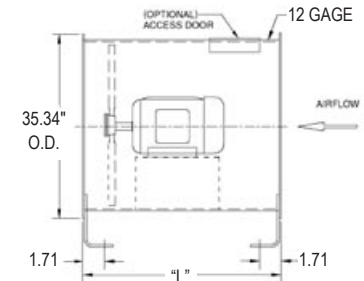


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	22	9656	0.79	8961	0.86	8317	0.93								
	28	11485	1.12	10671	1.22	9918	1.29								
1150	22	12763	1.83	12218	1.93	11726	2.01	10719	2.20						
	28	15182	2.58	14566	2.71	13956	2.84	12797	3.02						

## 032

Prop Diameter = 32 in.
Max. RPM = 1150
Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	30.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	22	11550	1.02	10793	1.10	10053	1.18	4922	1.16						
	28	13567	1.40	12697	1.53	11856	1.62	4916	1.49						
1150	22	15267	2.35	14695	2.46	14122	2.56	13007	2.79	5272	2.78	3394	3.05		
	28	17934	3.24	17276	3.41	16617	3.57	15351	3.80	5085	3.67				

- Notes:
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.

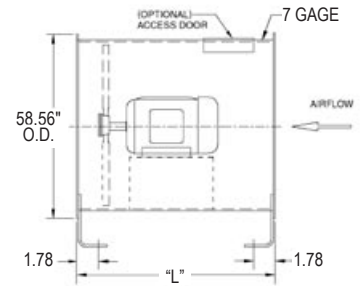
# Direct Drive Fan Data

Tubeaxial Fan TXD-097

## 036

Prop Diameter = 36 in.
Max. RPM = 870
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.72 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	36.00
324 - 326	36.00

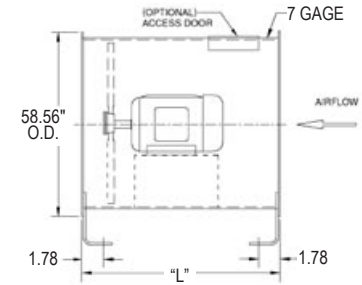


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	22	13137	0.94	12072	1.03	11036	1.13	4008	1.14						
	28	15432	1.29	14209	1.43	13048	1.52	3875	1.52						
870	22	16445	1.84	15594	1.95	14753	2.07	12637	2.32						
	28	19318	2.53	18339	2.71	17380	2.85	15295	3.11						

## 042

Prop Diameter = 42 in.
Max. RPM = 870
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 364	42.00
404 - 405	48.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	22	20862	2.02	19618	2.17	18397	2.32	14843	2.64						
	28	24505	2.79	23075	3.01	21688	3.18	17261	3.49						
870	22	26115	3.97	25122	4.15	24128	4.33	22193	4.72	8833	4.71	5634	5.17		
	28	30676	5.46	29533	5.75	28391	6.03	26197	6.41	8425	6.22				

**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

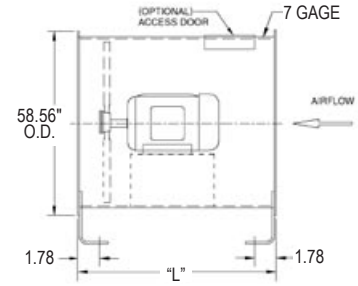
# Direct Drive Fan Data

TXD-097 Tubeaxial Fan

## 048

Prop Diameter = 48 in.
Max. RPM = 870
Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 364	42.00
404 - 405	48.00

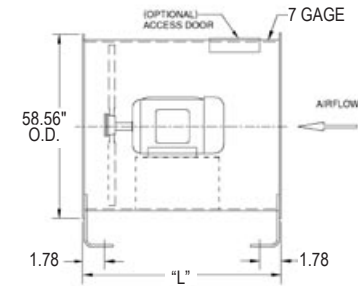


RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	22	31141	3.94	29720	4.16	28307	4.38	25318	4.85	7430	5.04				
	28	36579	5.43	34945	5.77	33332	6.07	30306	6.53						
870	22	38982	7.73	37847	8.00	36712	8.28	34479	8.85	28120	10.00	14021	9.03	10298	9.71
	28	45790	10.70	44485	11.10	43179	11.50	40639	12.20	32982	13.40	13820	11.90	9658	13.30

## 054

Prop Diameter = 54 in.
Max. RPM = 695
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 364	42.00
404 - 405	48.00



RPM	PITCH	0" SP		1/8" SP		1/4" SP		1/2" SP		1" SP		1 1/4" SP		1 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	22	44339	7.10	42740	7.41	41142	7.72	38022	8.39	16150	8.27	10906	9.04		
	28	52083	9.79	50244	10.30	48406	10.70	44866	11.40	16019	10.90				

**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

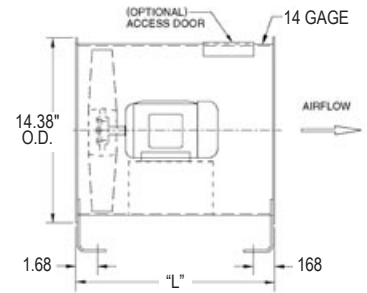
# Direct Drive Fan Data

Tubeaxial Fan TXD - 098

## 012

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 -145	18.00

Prop Diameter = 12 in.
Maximum RPM = 3450
Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq.ft.)

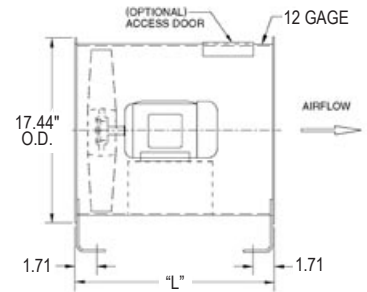


RPM	PITCH	0 SP"		1/4" SP		1/2" SP		3/4 SP"		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1750	12	927	0.02	695	0.05														
	17	1166	0.04	893	0.07														
	22	1304	0.05	989	0.08														
	27	1556	0.08	1213	0.11														
3450	12	1828	0.17	1722	0.23	1586	0.30	1485	0.34	1354	0.38	1183	0.42	991	0.44				
	17	2299	0.28	2170	0.36	2040	0.43	1899	0.48	1741	0.51	1550	0.56	1178	0.64				
	22	2570	0.39	2416	0.46	2261	0.53	2102	0.59	1930	0.64	1736	0.68	1271	0.68				
	27	3067	0.64	2901	0.70	2733	0.76	2553	0.82	2370	0.87	2167	0.90	1959	0.93				

## 015

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 -145	18.00
182 - 184	24.00

Prop Diameter = 15 in.
Maximum RPM = 3450
Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1.26 sq. ft.)



RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1750	12	1811	0.07	1523	0.13	1176	0.17												
	17	2277	0.11	1953	0.18	1541	0.22												
	22	2546	0.16	2165	0.22	1725	0.27												
	27	3038	0.25	2622	0.31	2152	0.36												
3450	12	3571	0.53	3451	0.64	3284	0.77	3113	0.90	2987	0.98	2862	1.07	2689	1.15	2267	1.30		
	17	4489	0.86	4329	1.01	4168	1.15	4006	1.28	3830	1.39	3684	1.48	3453	1.55	2978	1.72		
	22	5020	1.20	4828	1.34	4636	1.47	4441	1.60	4244	1.73	4041	1.84	3825	1.94	3345	2.10		
	27	5990	1.94	5782	2.06	5575	2.19	5365	2.31	5145	2.43	4915	2.54	4686	2.62	4185	2.78		

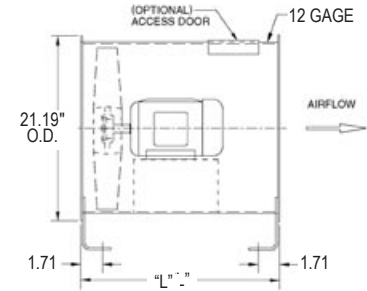
Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

# Direct Drive Fan Data

TXD - 098 Tubeaxial Fan

## 018

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00

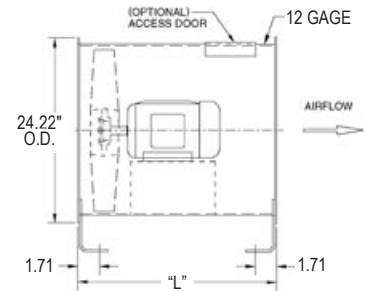


Prop Diameter = 18 in.
Maximum RPM = 3450
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)

RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1150	12	2057	0.05	1524	0.11	698	0.15	266	0.20										
	17	2586	0.08	1959	0.14	897	0.22	471	0.28										
	22	2891	0.11	2171	0.18	997	0.23	528	0.32										
	27	3450	0.18	2666	0.24	1150	0.30	638	0.39										
1750	12	3130	0.17	2767	0.28	2450	0.36	1967	0.42	1329	0.47								
	17	3935	0.28	3554	0.40	3130	0.49	2587	0.56	1572	0.69	1250	0.85	958	0.92				
	22	4400	0.39	3944	0.51	3469	0.61	2911	0.68	1750	0.75	1400	0.88	1095	1.01				
	27	5250	0.63	4760	0.74	4228	0.84	3646	0.90	2000	0.94	1633	1.10	1309	1.23				
3450	12	6171	1.32	6027	1.50	5868	1.70	5649	1.94	5431	2.19	5277	2.34	5126	2.48	4782	2.76	4336	3.03
	17	7758	2.15	7565	2.41	7373	2.67	7178	2.89	6984	3.12	6780	3.32	6568	3.50	6117	3.77	5600	4.04
	22	8674	2.99	8444	3.22	8213	3.46	7983	3.69	7750	3.92	7515	4.14	7276	4.34	6778	4.72	6231	5.04
	27	10350	4.83	10101	5.04	9853	5.25	9604	5.46	9355	5.68	9091	5.88	8825	6.09	8273	6.45	7702	6.71

## 021

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00



Prop Diameter = 21 in.
Maximum RPM = 1750
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)

RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	17	3106	0.07	2056	0.15	768	0.24	180	0.30										
	22	3474	0.10	2311	0.18	877	0.27	139	0.35										
	27	4145	0.17	2892	0.24	1048	0.33	155	0.40										
1150	12	3266	0.11	2664	0.21	1824	0.27	944	0.34										
	17	4106	0.17	3408	0.29	2289	0.38	1270	0.53	770	0.59								
	22	4591	0.24	3772	0.36	2665	0.42	1427	0.55	885	0.67								
	27	5478	0.39	4582	0.50	3544	0.57	1670	0.68	1064	0.82								
1750	12	4970	0.37	4576	0.54	4164	0.69	3755	0.80	3177	0.91	2460	0.96	1817	1.08	1071	1.32	501	1.55
	17	6249	0.61	5805	0.81	5340	0.97	4820	1.08	4170	1.20	2792	1.44	2279	1.63	1577	1.98	1046	2.13
	22	6987	0.84	6457	1.03	5917	1.21	5339	1.36	4679	1.47	3103	1.52	2541	1.72	1797	2.15	1078	2.51
	27	8337	1.36	7765	1.53	7171	1.70	6538	1.84	5850	1.94	5050	2.01	2920	2.19	2143	2.63	1327	3.01

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

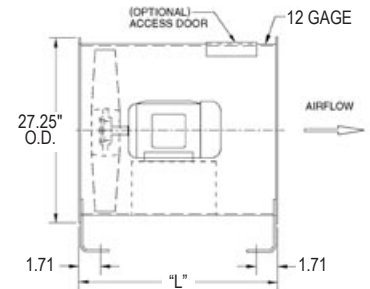
# Direct Drive Fan Data

Tubeaxial Fan TXD - 098

## 024

Prop Diameter = 24 in.
Maximum RPM = 1750
Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00

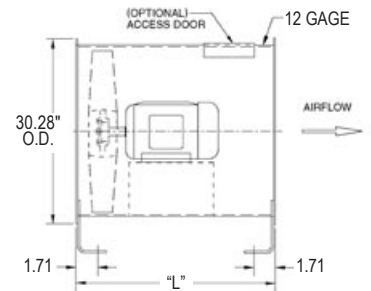


RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	12	3688	0.09	2752	0.19	1286	0.26	508	0.35										
	17	4637	0.14	3537	0.26	1638	0.40	865	0.50										
	22	5185	0.20	3918	0.33	1823	0.42	991	0.57										
	27	6187	0.33	4806	0.44	2100	0.54	1192	0.70										
1150	12	4876	0.21	4162	0.37	3399	0.48	2165	0.55	1358	0.67	782	0.79	332	0.90				
	17	6129	0.33	5346	0.52	4398	0.63	2529	0.82	1847	1.05	1261	1.14	920	1.20				
	22	6854	0.47	5926	0.65	4894	0.79	2816	0.88	2078	1.08	1464	1.28	830	1.45				
	27	8178	0.75	7170	0.92	6055	1.05	3223	1.09	2440	1.35	1756	1.56	1028	1.71				
1750	12	7419	0.72	7006	0.96	6459	1.24	6062	1.41	5560	1.58	4905	1.73	4180	1.82	2632	2.12	1762	2.49
	17	9327	1.18	8821	1.49	8310	1.76	7756	1.98	7144	2.12	6411	2.30	5363	2.54	3333	3.24	2526	3.80
	22	10430	1.64	9824	1.93	9213	2.20	8584	2.45	7914	2.67	7160	2.83	6406	2.92	3712	3.41	2861	4.06
	27	12444	2.65	11791	2.91	11130	3.16	10425	3.41	9700	3.60	8914	3.76	8096	3.89	4272	4.33	3396	4.98

## 027

Prop Diameter = 27 in.
Maximum RPM = 1750
Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
48 - 56	18.00
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00



RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	12	5252	0.16	4235	0.32	2694	0.41	1366	0.53	587	0.66								
	17	6602	0.26	5408	0.45	3111	0.61	1900	0.83	1143	0.92								
	22	7383	0.36	5987	0.55	3364	0.65	2142	0.87	1220	1.07								
	27	8809	0.59	7278	0.76	5499	0.87	2530	1.07	1489	1.29								
1150	12	6942	0.37	6109	0.62	5380	0.78	4258	0.91	2777	1.03	1978	1.19	1317	1.36	280	1.69		
	17	8727	0.60	7857	0.88	6881	1.06	5617	1.22	3384	1.52	2671	1.88	2012	2.01	1175	2.19		
	22	9759	0.84	8718	1.10	7626	1.33	6342	1.48	3786	1.64	3004	1.93	2313	2.22	883	2.71		
	27	11644	1.36	10524	1.60	9307	1.81	7969	1.96	4333	2.07	3520	2.41	2776	2.70	1078	3.16		
1750	12	10564	1.31	10140	1.62	9501	2.04	8987	2.34	8540	2.59	7956	2.82	7251	3.05	5520	3.34	3816	3.80
	17	13281	2.13	12712	2.58	12137	2.97	11541	3.32	10910	3.62	10215	3.81	9416	4.06	6431	4.91	4805	5.77
	22	14850	2.96	14168	3.36	13486	3.77	12792	4.14	12076	4.48	11316	4.79	10482	5.04	6958	5.23	5355	6.09
	27	17719	4.78	16983	5.15	16248	5.51	15480	5.87	14678	6.21	13863	6.47	12992	6.69	11147	7.05	6157	7.73

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

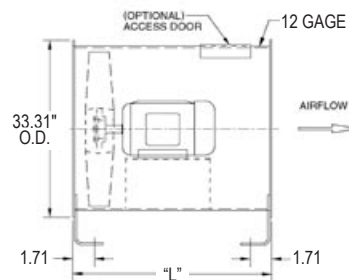
# Direct Drive Fan Data

TXD - 098 Tubeaxial Fan

## 030

Prop Diameter = 30 in.
Maximum RPM = 1750
Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	18.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	30.00

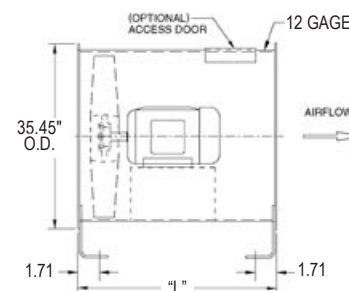


RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	12	7011	0.24	5854	0.45	4292	0.60	2437	0.78	1487	0.96								
	17	8676	0.38	7365	0.62	5477	0.84	3199	1.11	2088	1.32	1228	1.52						
	22	10179	0.62	8756	0.90	6703	1.09	3856	1.40	2639	1.72	1485	1.99						
	27	11829	0.96	10295	1.20	8465	1.42	4428	1.71	3019	2.08	1520	2.33						
1150	12	9266	0.51	8375	0.87	7495	1.10	6323	1.31	4839	1.49	3441	1.75	2627	2.00	1296	2.48		
	17	11468	0.88	10493	1.23	9467	1.50	8300	1.76	6341	2.05	4507	2.46	3562	2.78	2216	3.28		
	22	13455	1.43	12383	1.84	11287	2.16	10051	2.42	8060	2.71	5324	3.12	4395	3.56	2609	4.32		
	27	15636	2.20	14517	2.54	13289	2.85	11905	3.14	9569	3.38	6137	3.79	5055	4.31	2903	5.17		
1750	12	14101	1.99	13566	2.42	12944	2.90	12360	3.29	11803	3.66	11140	4.01	10388	4.34	8719	4.86	6593	5.54
	17	17452	3.11	16812	3.65	16170	4.16	15519	4.64	14847	5.05	14150	5.42	13393	5.82	11154	6.75	8613	7.55
	22	20475	5.04	19734	5.74	19059	6.32	18379	6.88	17647	7.34	16895	7.78	16084	8.20	13613	8.87	13398	9.88
	27	23795	7.76	23059	8.30	22324	8.80	21559	9.31	20745	9.74	19901	10.21	19005	10.66	17114	11.46	13578	12.39

## 032

Prop Diameter = 32 in.
Maximum RPM = 1750
Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 256	30.00
284 - 286	30.00



RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	12	8183	0.35	6934	0.54	5358	0.73	3151	0.95	2087	1.16	1137	1.40	418	1.59				
	17	10059	0.46	8670	0.74	7055	0.99	4065	1.29	2718	1.59	1838	1.84	910	2.08				
	22	12043	0.79	10602	1.14	8929	1.39	4998	1.76	3585	2.15	2305	2.48	1155	2.73				
	27	13843	1.28	12306	1.50	10442	1.78	5694	2.13	4039	2.60	2351	2.94	633	3.20				
1150	12	10816	0.65	9885	1.03	8905	1.32	7700	1.57	6214	1.79	4417	2.13	3500	2.42	1974	3.01	777	3.56
	17	13296	1.07	12251	1.46	11191	1.79	10089	2.12	8312	2.41	5731	2.85	4595	3.29	2910	4.01	1500	4.66
	22	15919	1.82	14827	2.34	13727	2.72	12524	3.04	10909	3.42	6870	3.92	5783	4.46	3760	5.40	1924	6.17
	27	18298	2.76	17179	3.17	15944	3.54	14529	3.92	13059	4.25	7882	4.71	6575	5.39	4119	6.51	1244	7.22
1750	12	16459	2.44	15850	2.96	15240	3.47	14609	3.93	13978	4.38	13262	4.80	12480	5.20	10852	5.88	8444	6.70
	17	20233	3.77	19546	4.36	18859	4.95	18171	5.52	17472	6.01	16773	6.50	16044	7.00	14302	7.98	11152	8.74
	22	24224	6.43	23444	7.33	22774	8.02	22103	8.70	21361	9.24	20614	9.78	19818	10.30	18049	11.30	15426	12.40
	27	27845	9.74	27109	10.40	26374	11.00	25612	11.60	24790	12.10	23927	12.70	23014	13.30	21092	14.40	18525	15.50

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
2. Performance ratings do not include the effects of appurtenances in the airstream.

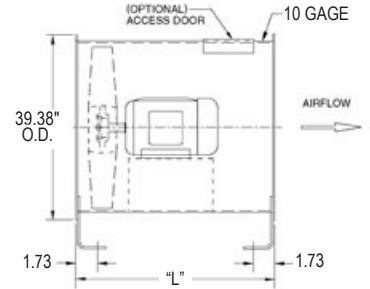
# Direct Drive Fan Data

Tubeaxial Fan TXD - 098

## 036

Prop Diameter = 36 in.
Maximum RPM = 1750
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.72 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
143 - 145	24.00
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	36.00
324 - 326	36.00

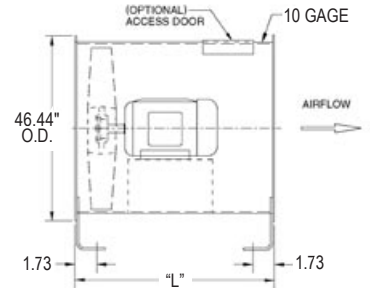


RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
870	12	11651	0.54	10253	0.89	8616	1.19	6410	1.43	4199	1.78	3044	2.08	1931	2.41	316	2.96		
	17	14322	0.83	12765	1.24	11153	1.59	8477	1.90	5473	2.42	3964	2.85	2939	3.20	925	3.87		
	22	17147	1.42	15545	1.95	13805	2.32	11404	2.71	6788	3.28	5195	3.85	3754	4.31	1148	5.06		
	27	19710	2.16	18015	2.59	16029	2.99	13729	3.35	7726	3.97	5867	4.65	4074	5.18	578	5.93		
1150	12	15400	1.25	14357	1.73	13280	2.16	12051	2.56	10678	2.89	8974	3.21	6762	3.70	4647	4.51	2913	5.37
	17	18931	1.93	17755	2.48	16571	2.99	15361	3.45	14059	3.92	12055	4.33	8870	4.81	6079	6.16	4234	7.18
	22	22666	3.29	21415	4.04	20224	4.63	18926	5.13	17504	5.59	15688	6.14	10321	6.75	7737	8.35	5489	9.66
	27	26053	4.98	24794	5.57	23457	6.11	21970	6.64	20351	7.18	18697	7.63	11766	8.09	8790	10.10	6032	11.70
1750	12	23435	4.40	22749	5.13	22064	5.86	21368	6.56	20657	7.20	19946	7.85	19172	8.47	17412	9.60	15568	10.50
	17	28808	6.79	28036	7.63	27263	8.47	26490	9.31	25713	10.10	24926	10.80	24140	11.50	22510	12.90	20535	14.30
	22	34492	11.60	33581	13.00	32827	13.90	32072	14.90	31307	15.80	30467	16.60	29627	17.40	27851	18.80	25834	20.30
	27	39646	17.60	38819	18.40	37992	19.30	37164	20.20	36279	21.00	35355	21.80	34405	22.60	32342	24.30	30168	25.90

## 042

Prop Diameter = 42 in.
Maximum RPM = 1150
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
182 - 184	24.00
213 - 215	30.00
254 - 256	30.00
284 - 286	36.00
324 - 326	36.00



RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	12	14779	0.60	12732	1.03	10216	1.38	6437	1.77	4423	2.16	2747	2.58	1356	2.97				
	17	18168	0.92	15889	1.43	13453	1.87	8440	2.31	5783	2.95	4023	3.44	2516	3.88				
	22	21752	1.57	19395	2.21	16761	2.67	9838	3.24	7370	4.00	5208	4.62	3151	5.19				
	27	25003	2.38	22496	2.92	19494	3.43	11237	3.88	8374	4.83	5715	5.58	2557	6.06				
870	12	18501	1.17	16884	1.74	15173	2.24	13079	2.66	10455	3.04	7427	3.63	5879	4.12	3252	5.13	1216	6.06
	17	22743	1.80	20929	2.47	19091	3.04	17175	3.60	13913	4.08	9567	4.88	7710	5.60	4853	6.83	2416	7.93
	22	27229	3.08	25336	3.95	23425	4.60	21324	5.16	18438	5.80	11618	6.68	9732	7.60	6242	9.19	3091	10.50
	27	41298	4.66	29367	5.36	27205	6.00	24745	6.64	22163	7.19	13303	8.04	11063	9.18	6813	11.10	1797	12.30
1150	12	24455	2.70	23238	3.46	21999	4.18	20737	4.86	19267	5.47	17685	6.04	16045	6.52	11041	7.89	8281	9.20
	17	30062	4.16	28690	5.04	27319	5.92	25926	6.66	24514	7.39	23056	8.14	21132	8.85	14505	10.10	10835	12.50
	22	35993	7.10	34490	8.37	33151	9.38	31701	10.20	30187	11.00	28586	11.70	26723	12.50	16780	14.30	13554	17.00
	27	41371	10.80	39903	11.70	38434	12.60	36793	13.40	35039	14.30	33175	15.10	31245	16.00	19006	17.20	15417	20.50

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.



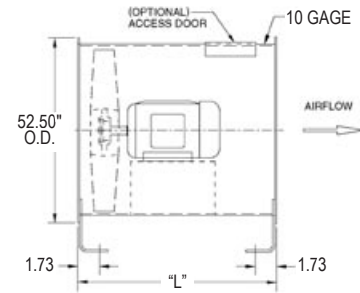
# Direct Drive Fan Data

TXD - 098 Tubeaxial Fan

## 048

Prop Diameter = 48 in.
Maximum RPM = 1150
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
182 - 184	24.00
213 - 215	24.00
254 - 256	30.00
284 - 286	36.00
324 - 326	36.00
364 - 365	36.00

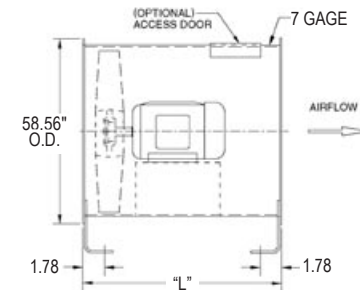


RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	12	22061	1.16	19736	1.83	17110	2.40	13948	2.87	9327	3.51	7012	4.09	5129	4.67	1836	5.87		
	17	27119	1.79	24600	2.58	21861	3.24	18430	3.39	12209	4.62	9197	5.57	6850	6.35	3457	7.67		
	22	32470	3.06	29790	4.08	26954	4.80	23604	5.49	14323	6.45	11608	7.56	9050	8.55	4370	10.2		
	27	37322	4.63	14529	5.47	31293	6.21	27684	6.95	16475	7.70	13196	9.13	10098	10.40	3269	11.9		
870	12	27616	2.28	25777	3.14	23880	3.91	21734	4.63	19321	5.24	16401	5.80	12414	6.68	8537	8.13	5494	9.66
	17	33948	3.51	31876	4.51	29789	5.42	27661	6.25	25428	7.10	21973	7.84	16305	8.59	11181	11.10	7814	13.00
	22	40645	6.00	38438	7.35	36346	8.42	34065	9.31	31592	10.10	28465	11.10	18879	12.10	14175	15.00	10179	17.40
	27	46720	9.09	44501	10.10	42151	11.10	39541	12.10	36698	13.00	33783	13.90	21405	14.50	16110	18.20	11229	21.10
1150	12	36504	5.26	35113	6.40	33721	7.54	32279	8.54	30837	9.55	29161	10.50	27375	11.40	23644	12.80	17761	14.80
	17	44874	8.12	43306	9.43	41738	10.70	40165	12.00	38569	13.10	36967	14.20	35300	15.30	31090	17.40	23482	19.10
	22	53727	13.90	51953	15.80	50422	17.40	48886	18.90	47182	20.10	45471	21.20	43642	22.30	39529	24.60	33095	26.90
	27	61756	21.00	60077	22.40	58399	23.80	56644	25.10	54769	26.30	52771	27.60	50687	28.80	46279	31.30	38967	34.10

## 054

Prop Diameter = 54 in.
Maximum RPM = 1150
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 365	42.00
404 - 405	48.00



RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	12	31411	2.09	28814	3.06	26127	3.93	22781	4.67	18846	5.31	13523	6.27	10724	7.10	6417	8.80	2776	10.50
	17	38613	3.23	35695	4.36	32760	5.34	29673	6.30	25191	7.17	17719	8.20	14024	9.66	9026	11.80	5179	13.70
	22	46231	5.51	43173	7.00	40120	8.13	36782	9.08	32583	10.10	20706	11.50	17523	13.10	11786	15.90	6509	18.30
	27	53140	8.35	50016	9.54	46601	10.60	42689	11.70	38563	12.70	23714	13.70	19934	15.90	13028	19.30	5126	21.40
870	12	39321	4.11	37252	5.33	35141	6.48	32996	7.56	30406	8.53	27684	9.39	24659	10.20	16417	12.50	12361	14.50
	17	48336	6.33	46005	7.74	43674	9.15	41302	10.30	38881	11.50	36403	12.70	32641	13.80	21472	16.50	16203	19.80
	22	57872	10.80	55334	12.80	53058	14.40	50562	15.80	47950	17.00	45187	18.20	41906	19.50	25335	23.00	20486	26.90
	27	66521	16.40	64025	17.90	61497	19.30	58708	20.70	55671	22.00	52457	23.40	49177	24.60	29144	27.40	23286	32.50
1150	12	51975	9.48	50411	11.10	48846	12.70	47253	14.30	45630	15.70	44007	17.10	42179	18.50	38147	20.90	33928	23.00
	17	63893	14.60	62129	16.50	60365	18.40	58602	20.20	56823	21.90	55028	23.50	53233	25.00	49499	28.20	44658	31.20
	22	76497	25.00	74429	28.00	72707	30.10	70985	32.30	69216	34.30	67299	36.00	65381	37.70	61302	40.80	56593	44.20
	27	87929	37.80	86041	39.80	84153	41.80	82265	43.70	80222	45.60	78113	47.30	75906	49.10	71167	52.70	66204	56.20

- Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

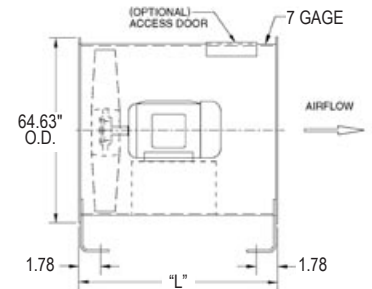
# Direct Drive Fan Data

Tubeaxial Fan TXD - 098

## 060

Prop Diameter = 60 in.
Maximum RPM = 870
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	36.00
284 - 286	36.00
324 - 326	42.00
364 - 365	42.00
404 - 405	48.00

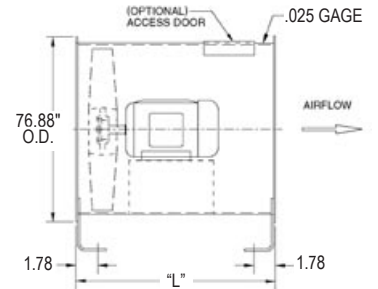


RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	12	43088	3.54	40211	4.89	37242	6.10	33879	7.21	30101	8.16	25510	9.04	19295	10.40	13268	12.70	8503	15.10
	17	52968	5.47	49725	7.01	46459	8.45	43129	9.73	39618	11.10	34201	12.20	25337	13.40	17374	17.30	12135	20.20
	22	63417	9.33	59964	11.40	56689	13.10	53118	14.50	49239	15.80	44327	17.30	29360	18.90	22039	23.50	15796	27.20
	27	72894	14.10	69423	15.80	65744	17.30	61657	18.80	57206	20.30	52644	21.60	33318	22.70	25046	28.30	17415	32.80
870	12	53938	6.95	51639	8.64	49322	10.30	46939	11.80	44478	13.20	41527	14.50	38511	15.70	31203	17.90	22181	21.30
	17	66305	10.70	63715	12.70	61124	14.60	58510	16.40	55874	17.90	53165	19.60	50411	21.20	41827	24.10	28866	28.40
	22	79385	18.30	76497	21.20	73968	23.40	71340	25.50	68524	27.20	65589	28.90	62567	30.50	54674	34.30	34420	39.20
	27	91249	27.70	88476	29.80	85702	31.80	82713	33.70	79595	35.50	76153	37.40	72588	39.30	65298	42.60	39528	47.00

## 072

Prop Diameter = 72 in.
Maximum RPM = 870
Tip Speed, FPM = 18.85 x RPM
Inlet & Outlet Diameter (Area) = 72.75 in. (28.87 sq. ft.)

Max. Mtr. Fr.	"L" Dimension
254 - 256	42.00
284 - 286	42.00
324 - 326	48.00
364 - 365	48.00
404 - 405	54.00



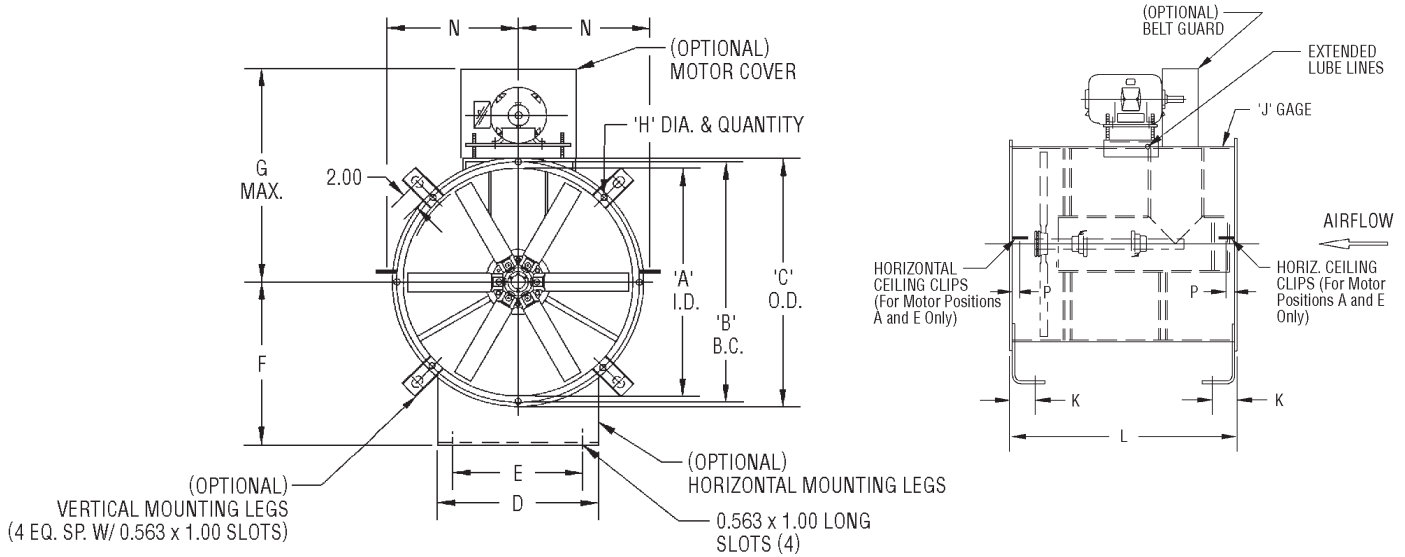
RPM	PITCH	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
695	12	74456	8.82	71004	11.10	67504	13.40	63924	15.40	59961	17.40	55529	19.20	50898	20.70				
	17	91528	13.60	87637	16.30	83746	18.90	79806	21.30	75845	23.50	71714	25.80	67064	28.00				
	22	109585	23.20	105290	27.10	101494	30.20	97450	32.90	93219	35.30	88700	37.50	83771	39.90				
	27	125961	35.20	121796	38.00	117630	40.80	113047	43.40	108198	45.90	103014	48.50	97539	51.10				
870	12	93204	17.30	90446	20.20	87688	23.10	84885	25.90	82025	28.40	79165	31.00	76008	33.40	68926	38.00	61491	41.60
	17	114575	26.70	111466	30.00	108358	33.40	105250	36.70	102119	39.80	98955	42.60	95791	45.30	89226	51.00	81044	56.50
	22	137178	45.50	133522	51.00	130487	54.90	127453	58.70	124357	62.50	120977	65.50	117598	68.50	110436	74.10	102249	80.00
	27	157678	69.00	154350	72.60	151023	76.10	147695	79.60	144118	82.90	140400	86.00	136550	89.20	128231	95.70	119483	102.00

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.

# Belt Drive Fan Data

TXB - Tubeaxial Fan

## Belt Drive, 091 and 097 Props



## Dimensions

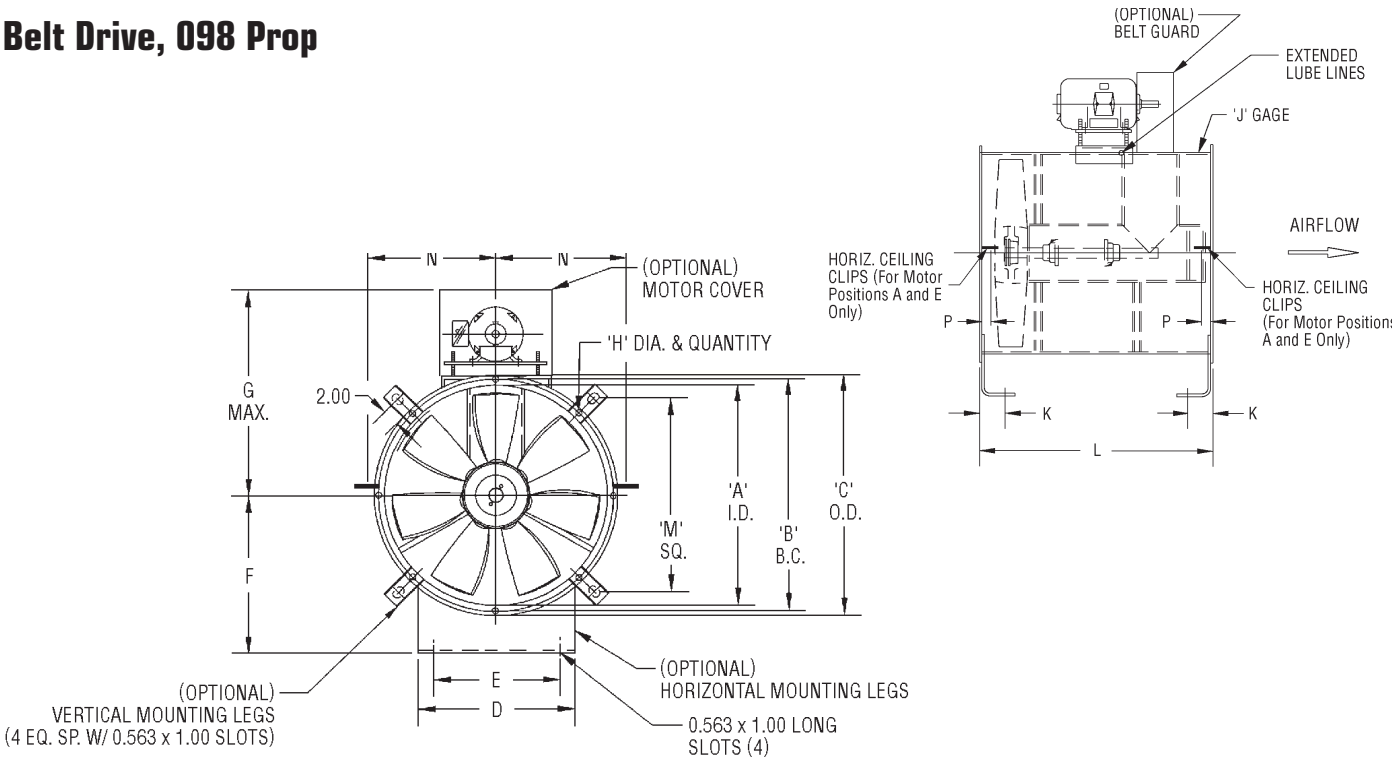
SIZE	A	B	C	D	E	F	G	H	J	K	L, MTR. FRAME SIZE				N	P	UNIT WEIGHT
											DESIGN 1	MAX. MTR	DESIGN 2	MAX. MTR			
012	12.19	13.50	14.38	11.00	9.00	11.00	26.00	438-8	14	1.68	24.00	184	—	—	7.19	3.08	100
015	15.19	16.50	17.44	14.00	12.00	13.00	27.50	438-8	12	1.71	24.00	184	—	—	8.69	3.10	150
018	18.19	19.81	21.19	17.00	15.00	14.50	30.00	438-8	12	1.71	28.00	215	—	—	10.16	3.10	200
021	21.22	22.97	24.22	20.00	18.00	16.00	31.50	438-8	12	1.71	28.00	215	—	—	12.17	3.10	250
024	24.25	26.06	27.25	22.00	18.00	18.00	36.25	438-8	12	1.71	28.00	215	32.00	286	13.69	3.10	300
027	27.28	29.13	30.28	26.00	22.00	20.00	37.75	438-8	12	1.71	28.00	215	32.00	286	15.22	3.10	350
030	30.31	32.19	33.31	29.00	25.00	21.50	40.25	438-8	12	1.71	28.00	215	36.00	286	16.74	3.10	500
032	32.34	34.19	35.34	31.00	27.00	23.00	42.75	438-16	12	1.71	28.00	256	36.00	286	17.75	3.10	550
036	36.38	38.19	39.38	35.00	31.00	25.00	44.75	438-16	10	1.73	36.00	256	42.00	326	19.75	3.13	850
042	42.44	44.81	46.44	40.00	36.00	29.00	49.25	563-16	10	1.73	36.00	286	42.00	326	23.28	3.13	1050
048	48.50	50.88	52.50	46.00	42.00	33.25	54.25	563-16	10	1.73	42.00	286	48.00	405	26.31	3.13	1400
054	54.56	57.00	58.56	52.00	48.00	36.25	57.25	563-16	7	1.78	48.00	286	54.00	405	29.38	3.18	2150
060	60.63	63.00	64.63	56.00	52.00	39.25	60.25	563-16	7	1.78	48.00	286	54.00	405	32.38	3.18	2500
072	72.75	75.13	76.88	60.00	56.00	45.38	66.25	563-16	0.25	1.78	48.00	286	54.00	405	39.38	4.00	3500
084	84.88	87.63	89.38	66.00	62.00	51.38	72.25	563-24	0.25	1.78	54.00	286	60.00	405	45.44	4.00	4300
096	97.00	99.75	101.50	72.00	68.00	57.38	78.25	563-24	0.25	1.78	54.00	286	60.00	405	51.50	4.50	5000

- Note:**
1. Approximate fan weights are less motor, drive and accessories.
  2. Size 072 fans with horizontal ceiling clips will have 3 clips per side, rather than the standard two clips.
  3. Dimensions should not be used for construction. Certified drawings are available upon request.

# Belt Drive Fan Data

Tubeaxial Fan - TXB

## Belt Drive, 098 Prop



## Dimensions

SIZE	A	B	C	D	E	F	G	H	J	K	L, MTR. FRAME SIZE				M	N	P	UNIT WEIGHT
											DESIGN 1	MAX. MTR	DESIGN 2	MAX. MTR				
012	12.19	13.50	14.38	11.00	9.00	11.00	26.00	.438-8	14	1.68	24.00	184	—	—	—	7.19	3.08	100
015	15.19	16.50	17.44	14.00	12.00	13.00	27.50	.438-8	12	1.71	24.00	184	—	—	—	8.69	3.10	150
018	18.19	19.81	21.19	17.00	15.00	14.50	30.00	.438-8	12	1.71	28.00	215	—	—	—	10.16	3.10	200
021	21.22	22.97	24.22	20.00	18.00	16.00	31.50	.438-8	12	1.71	28.00	215	—	—	—	12.17	3.10	250
024	24.25	26.06	27.25	22.00	18.00	18.00	36.25	.438-8	12	1.71	28.00	215	32.00	286	22.09	13.69	3.10	300
027	27.28	29.13	30.28	26.00	22.00	20.00	37.75	.438-8	12	1.71	28.00	215	32.00	286	24.25	15.22	3.10	350
030	30.31	32.19	33.31	29.00	25.00	21.50	40.25	.438-8	12	1.71	28.00	215	36.00	286	26.38	16.74	3.10	500
032	32.34	34.19	35.34	31.00	27.00	23.00	42.75	.438-16	12	1.71	28.00	256	36.00	286	27.81	17.75	3.10	550
036	36.38	38.19	39.38	35.00	31.00	25.00	44.75	.438-16	10	1.73	36.00	256	42.00	326	30.69	19.75	3.13	850
042	42.44	44.81	46.44	40.00	36.00	29.00	49.25	.563-16	10	1.73	36.00	286	42.00	326	35.66	23.28	3.13	1050
048	48.50	50.88	52.50	46.00	42.00	33.25	54.25	.563-16	10	1.73	42.00	286	48.00	405	39.94	26.31	3.13	1400
054	54.56	57.00	58.56	52.00	48.00	36.25	57.25	.563-16	7	1.78	48.00	286	54.00	405	44.25	29.38	3.18	2150
060	60.63	63.00	64.63	56.00	52.00	39.25	60.25	.563-16	7	1.78	48.00	286	54.00	405	—	32.38	3.18	2500
072	72.75	75.13	76.88	60.00	56.00	45.38	66.25	.563-16	0.25	1.78	48.00	286	54.00	405	—	39.38	4.00	3500

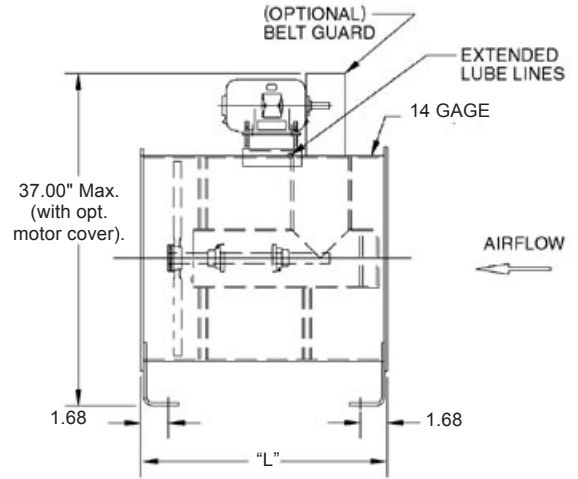
**Note:** 1. Approximate fan weights are less motor, drive and accessories.  
 2. Size 072 fans with horizontal ceiling clips will have 3 clips per side, rather than the standard two clips.  
 3. Dimensions should not be used for construction. Certified drawings are available upon request.

# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 012

Max. Mtr. Fr.	"L" Design 1
184	24.00



Prop Diameter = 12 in.
Max. RPM = 5725
Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
810	1247	0.02	1725	0.06																	
972	1496	0.04	1895	0.07	2266	0.12															
1134	1747	0.06	2085	0.10	2428	0.16	2712	0.22													
1296	1996	0.08	2296	0.13	2596	0.19	2884	0.26	3118	0.33											
1458	2245	0.12	2510	0.17	2773	0.24	3044	0.31	3293	0.39	3496	0.46									
1620	2494	0.16	2731	0.22	2971	0.29	3214	0.36	3452	0.45	3672	0.54	3855	0.62							
1782	2744	0.21	2957	0.28	3180	0.35	3391	0.43	3616	0.52	3830	0.61	4029	0.71	4354	0.89					
1944	2993	0.28	3191	0.35	3394	0.42	3587	0.50	3791	0.60	3991	0.70	4187	0.80	4532	1.01					
2106	3243	0.35	3426	0.42	3610	0.50	3795	0.60	3970	0.69	4166	0.79	4350	0.90	4699	1.13	4992	1.34			
2268	3492	0.44	3665	0.52	3830	0.60	4006	0.70	4172	0.79	4342	0.90	4521	1.01	4858	1.25	5170	1.50	5426	1.73	
2430	3742	0.54	3903	0.63	4054	0.71	4222	0.81	4380	0.91	4530	1.02	4697	1.13	5019	1.38	5328	1.65	5604	1.91	
2592	3991	0.66	4143	0.75	4286	0.83	4439	0.94	4591	1.05	4737	1.16	4877	1.27	5191	1.53	5487	1.80			
2754	4240	0.79	4385	0.88	4520	0.98	4658	1.08	4805	1.19	4945	1.31	5079	1.43	5367	1.69	5650	1.97			
2916	4489	0.94	4626	1.04	4755	1.13	4880	1.24	5023	1.36	5158	1.49	5287	1.61	5545	1.87					
3078	4739	1.10	4869	1.21	4992	1.31	5111	1.42	5240	1.54	5372	1.67	5498	1.80							
3240	4989	1.28	5112	1.39	5231	1.51	5343	1.62	5460	1.74	5587	1.87	5711	2.01							
3402	5238	1.49	5357	1.61	5469	1.72	5583	1.84	5683	1.96											
3564	5487	1.71	5600	1.83	5709	1.96															

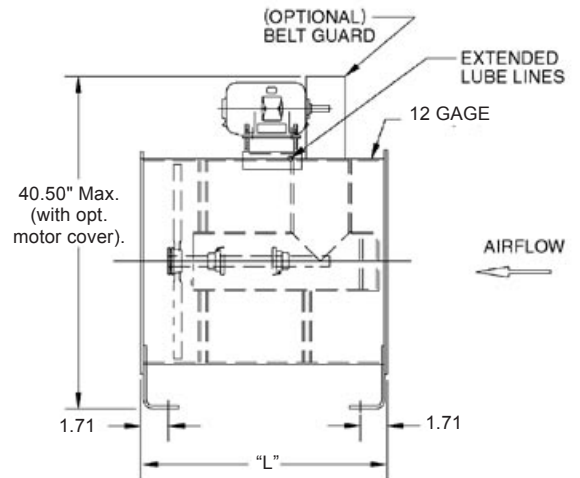
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 015

Max. Mtr. Fr.	"L" Design 1
184	24.00



Prop Diameter = 15 in.
Max. RPM = 4570
Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1026 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1258	992	0.03	1372	0.08																
1510	1190	0.06	1507	0.11	1802	0.19														
1761	1389	0.08	1658	0.15	1931	0.24	2157	0.33												
2013	1587	0.13	1826	0.20	2064	0.30	2293	0.40	2479	0.50										
2264	1785	0.18	1996	0.26	2205	0.36	2420	0.47	2618	0.59	2780	0.71								
2516	1983	0.25	2171	0.33	2362	0.44	2555	0.56	2745	0.69	2920	0.82	3065	0.95						
2768	2182	0.33	2351	0.42	2529	0.54	2697	0.66	2875	0.79	3046	0.94	3204	1.09	3462	1.37				
3019	2380	0.42	2537	0.53	2699	0.64	2853	0.77	3014	0.91	3174	1.07	3330	1.23	3604	1.54				
3271	2578	0.54	2725	0.65	2871	0.77	3018	0.91	3157	1.05	3313	1.22	3459	1.38	3737	1.73	3970	2.06		
3522	2776	0.67	2914	0.79	3046	0.92	3186	1.07	3317	1.22	3453	1.38	3595	1.55	3863	1.92	4111	2.30	4315	2.65
3774	2976	0.83	3104	0.96	3223	1.09	3357	1.25	3483	1.40	3603	1.56	3735	1.74	3991	2.12	4237	2.53	4456	2.92
4026	3174	1.01	3295	1.15	3408	1.28	3530	1.44	3651	1.61	3767	1.78	3878	1.95	4128	2.35	4363	2.77		
4277	3372	1.21	3487	1.35	3594	1.50	3704	1.66	3821	1.83	3932	2.02	4038	2.19	4268	2.60	4493	3.03		
4529	3570	1.44	3679	1.59	3781	1.74	3880	1.90	3994	2.09	4101	2.28	4204	2.46	4409	2.87				
4780	3768	1.69	3872	1.85	3970	2.02	4064	2.18	4166	2.36	4272	2.56	4372	2.76	4560	3.16				
5032	3967	1.97	4065	2.14	4159	2.31	4249	2.48	4342	2.67	4443	2.87	4541	3.09						
5284	4165	2.28	4259	2.46	4349	2.64	4439	2.82	4519	3.00										
5535	4363	2.63	4453	2.81	4540	3.00														
5787	4561	2.99																		

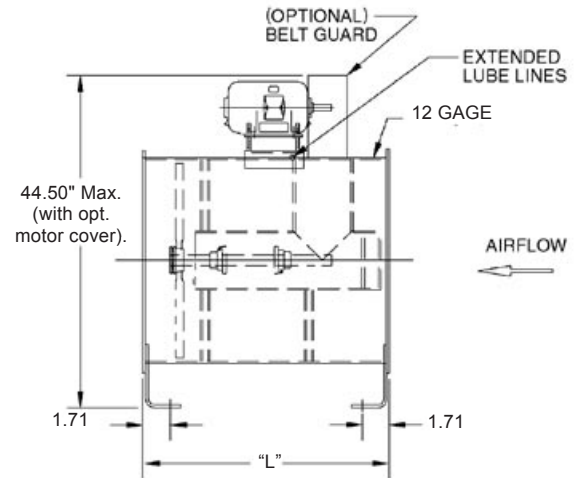
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 018

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 18 in.
Max. RPM = 3819
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
1800	821	0.04	1136	0.12																		
2160	985	0.08	1248	0.16	1492	0.27																
2520	1150	0.12	1373	0.21	1599	0.34	1786	0.47														
2880	1314	0.18	1512	0.28	1709	0.42	1899	0.56	2053	0.71												
3240	1478	0.25	1653	0.37	1826	0.51	2004	0.67	2168	0.84	2302	1.00										
3600	1642	0.35	1798	0.47	1956	0.62	2116	0.79	2273	0.97	2418	1.16	2538	1.34								
3960	1807	0.46	1947	0.60	2094	0.76	2233	0.93	2381	1.12	2522	1.33	2653	1.54	2857	1.93						
4320	1971	0.60	2101	0.75	2235	0.91	2362	1.09	2496	1.29	2628	1.51	2757	1.74	2984	2.18						
4680	2135	0.76	2256	0.92	2377	1.09	2499	1.29	2614	1.49	2743	1.72	2864	1.95	3094	2.44	3287	2.91				
5040	2299	0.95	2413	1.12	2522	1.30	2638	1.51	2747	1.72	2859	1.95	2977	2.19	3199	2.71	3404	3.25	3573	3.74		
5400	2464	1.17	2570	1.36	2669	1.54	2780	1.76	2884	1.98	2983	2.21	3093	2.46	3305	3.00	3508	3.57	3690	4.12		
5760	2628	1.43	2728	1.62	2822	1.81	2923	2.03	3023	2.27	3119	2.51	3211	2.75	3418	3.32	3613	3.91	3798	4.52		
6120	2792	1.71	2887	1.91	2976	2.12	3067	2.34	3164	2.59	3256	2.85	3344	3.10	3534	3.67	3720	4.28				
6400	2956	2.03	3046	2.25	3131	2.46	3213	2.69	3307	2.95	3396	3.22	3481	3.48	3651	4.05						
6840	3120	2.39	3206	2.62	3287	2.85	3365	3.08	3450	3.34	3537	3.62	3620	3.90	3776	4.47						
7200	3285	2.78	3366	3.02	3444	3.27	3518	3.51	3595	3.77	3679	4.06	3760	4.36								
7560	3449	3.22	3527	3.48	3601	3.73	3673	3.98	3742	4.24												
7920	3613	3.71	3687	3.97	3759	4.24																
8280	3777	4.23																				

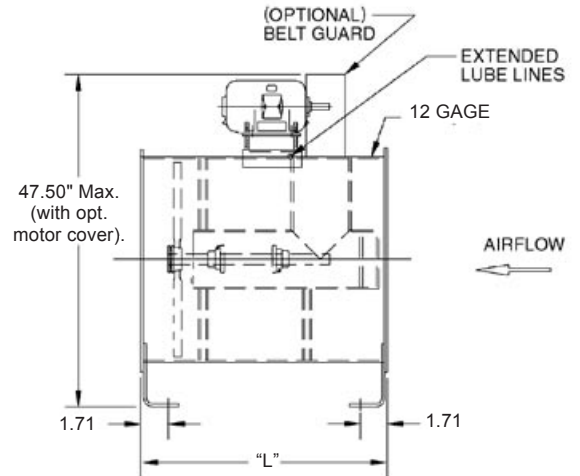
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 021

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 21 in.
Max. RPM = 3274
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
2450	704	0.06	974	0.17																	
2940	845	0.10	1070	0.22	1279	0.37															
3430	985	0.16	1177	0.29	1371	0.46	1531	0.64													
3920	1126	0.24	1296	0.39	1465	0.57	1628	0.77	1760	0.96											
4410	1267	0.35	1417	0.50	1565	0.69	1718	0.91	1858	1.14	1973	1.36									
4900	1408	0.47	1541	0.64	1677	0.84	1814	1.07	1948	1.32	2072	1.58	2175	1.82							
5390	1548	0.63	1669	0.81	1795	1.03	1914	1.26	2041	1.53	2162	1.81	2274	2.09	2458	2.62					
5880	1689	0.82	1801	1.02	1915	1.24	2025	1.49	2140	1.76	2253	2.06	2363	2.36	2557	2.97					
6370	1830	1.04	1934	1.25	2038	1.49	2142	1.75	2241	2.02	2351	2.34	2455	2.66	2652	3.33	2817	3.95			
6860	1971	1.30	2068	1.53	2161	1.77	2262	2.05	2355	2.34	2451	2.65	2551	2.99	2742	3.69	2918	4.42	3062	5.08	
7350	2112	1.60	2203	1.84	2288	2.09	2383	2.39	2472	2.69	2557	3.00	2651	3.35	2833	4.09	3007	4.85	3163	5.62	
7840	2252	1.94	2338	2.20	2419	2.47	2505	2.77	2591	3.09	2673	3.42	2752	3.75	2930	4.52	3097	5.32	3255	6.15	
8330	2393	2.33	2475	2.61	2551	2.89	2629	3.19	2712	3.53	2791	3.87	2867	4.22	3029	5.00	3189	5.83			
8820	2534	2.76	2611	3.06	2684	3.35	2754	3.66	2834	4.01	2911	4.38	2984	4.74	3130	5.51					
9310	2675	3.25	2748	3.56	2818	3.87	2884	4.19	2957	4.55	3032	4.93	3103	5.31							
9800	2815	3.79	2885	4.12	2952	4.45	3016	4.78	3082	5.13	3154	5.53	3223	5.93							
10290	2956	4.39	3023	4.73	3087	5.08	3148	5.42	3207	5.77											
10780	3097	5.04	3161	5.40	3222	5.77															
11270	3238	5.76																			

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.



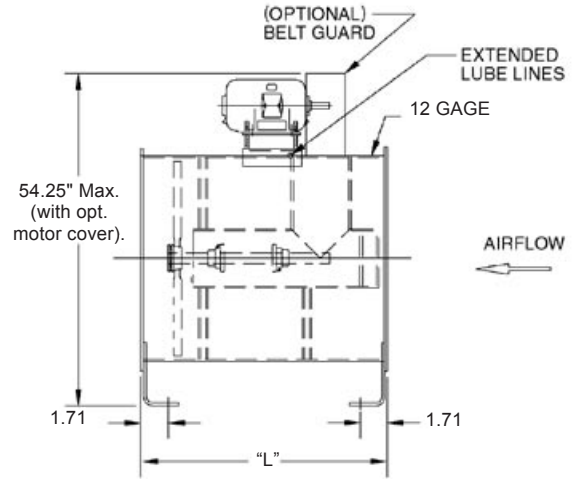
# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 024

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	32.00

Prop Diameter = 24 in.
Max. RPM = 2865
Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)



CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
3210	618	0.08	853	0.22																	
3852	741	0.13	938	0.29	1121	0.49															
4494	865	0.21	1032	0.38	1201	0.61	1342	0.83													
5136	988	0.32	1136	0.51	1284	0.74	1426	1.01	1542	1.27											
5778	1112	0.46	1243	0.66	1372	0.91	1505	1.19	1628	1.50	1729	1.78									
6420	1236	0.62	1352	0.84	1470	1.11	1590	1.41	1707	1.74	1816	2.08	1906	2.39							
7062	1359	0.83	1464	1.07	1574	1.35	1678	1.66	1789	2.01	1894	2.37	1992	2.75	2153	3.44					
7704	1483	1.08	1580	1.34	1680	1.34	1775	1.95	1876	2.31	1974	2.70	2071	3.10	2241	3.90					
8346	1606	1.37	1697	1.65	1787	1.96	1879	2.30	1964	2.66	2061	3.07	2151	3.49	2324	4.36	2469	5.20			
8988	1730	1.71	1815	2.01	1896	2.33	1983	2.70	2065	3.07	2148	3.48	2236	3.92	2403	4.84	2557	5.80	2683	6.67	
9630	1853	2.11	1933	2.43	2007	2.76	2090	3.14	2168	3.54	2242	3.94	2324	4.40	2483	5.36	2635	6.37	2772	7.38	
10272	1977	2.56	2052	2.90	2122	3.25	2197	3.64	2273	4.06	2344	4.49	2413	4.92	2568	5.94	2714	6.99	2852	8.07	
10914	2101	3.07	2172	3.43	2238	3.80	2306	4.20	2379	4.64	2448	5.09	2514	5.55	2655	6.56	2795	7.65			
11556	2224	3.64	2291	4.03	2355	4.42	2416	4.81	2486	5.28	2553	5.76	2617	6.23	2743	7.24					
12198	2348	4.28	2412	4.69	2472	5.10	2530	5.51	2594	5.98	2659	6.48	2721	6.99	2838	8.00					
12840	2471	5.00	2532	5.42	2590	5.86	2646	6.29	2703	6.75	2758	7.23	2816	7.74							
13482	2595	5.78	2653	6.23	2709	6.69	2762	7.14	2814	7.60											
14124	2718	6.65	2774	7.12	2827	7.60															
14766	2842	7.60																			

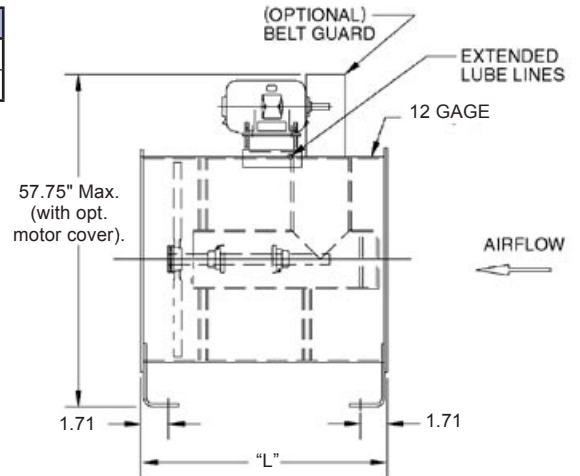
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 027

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	32.00



Prop Diameter = 27 in.
Max. RPM = 2547
Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
4060	549	0.10	758	0.27																	
4872	659	0.17	833	0.37	996	0.62															
5684	768	0.27	917	0.49	1068	0.77	1192	1.05													
6496	878	0.40	1010	0.64	1141	0.94	1267	1.28	1370	1.60											
7308	988	0.58	1104	0.83	1219	1.14	1338	1.51	1447	1.90	1536	2.26									
8120	1098	0.79	1201	1.07	1306	1.40	1413	1.78	1517	2.20	1613	2.63	1694	3.03							
8932	1207	1.05	1301	1.35	1399	1.71	1491	2.09	1589	2.54	1683	3.00	1771	3.47	1914	4.35					
9744	1317	1.36	1404	1.69	1492	2.07	1577	2.47	1667	2.92	1754	3.41	1840	3.92	1991	4.93					
10556	1427	1.73	1508	2.09	1588	2.48	1669	2.91	1745	3.36	1831	3.88	1911	4.41	2065	5.52	2194	6.57			
11368	1537	2.16	1612	2.55	1684	2.95	1762	3.41	1834	3.88	1909	4.40	1987	4.96	2135	6.12	2272	7.33	2384	8.43	
12180	1646	2.66	1717	3.07	1783	3.48	1857	3.97	1926	4.48	1992	4.99	2065	5.56	2206	6.78	2341	8.05	2463	9.33	
12992	1756	3.23	1823	3.67	1885	4.10	1952	4.60	2019	5.14	2083	5.67	2144	6.23	2282	7.51	2412	8.83	2535	10.20	
13804	1866	3.88	1929	4.34	1988	4.80	2049	5.30	2113	5.87	2175	6.44	2233	7.01	2359	8.30	2483	9.68			
14616	1976	4.60	2036	5.09	2092	5.09	2092	5.58	2146	6.08	2209	6.67	2268	7.27	2325	7.88	2438	9.15			
15428	2085	5.41	2142	5.93	2196	6.45	2248	6.97	2305	7.56	2362	8.19	2417	8.83	2522	10.10					
16240	2195	6.31	2249	6.85	2301	7.40	2351	7.95	2402	8.54	2457	9.20	2511	9.86							
17052	2305	7.30	2357	7.87	2406	8.45	2454	9.02	2500	9.60											
17864	2415	8.40	2464	9.00	2512	9.60															
18676	2524	9.60																			

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

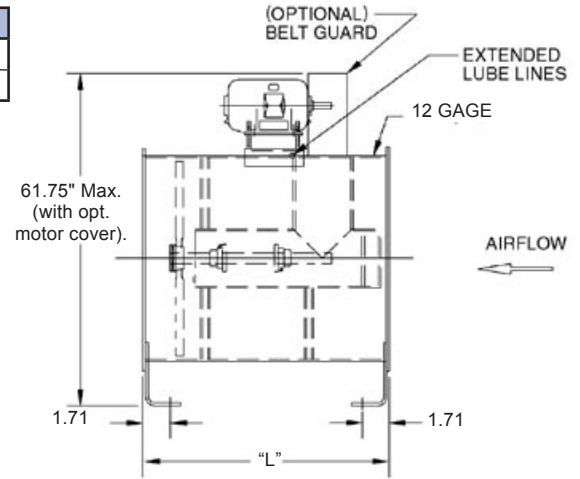
# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

## 030

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	28.00	—
286	—	36.00

Prop Diameter = 30 in.
Max. RPM = 2149
Tip Speed, FPM = 87.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)



CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5044	468	0.10	655	0.29																
6053	562	0.17	714	0.38																
7062	655	0.27	879	0.51																
8070	749	0.40	867	0.66																
9079	843	0.57	950	0.87	1047	1.18	1152	1.57												
10088	937	0.78	1035	1.12	1123	1.45	1210	1.82	1310	2.31										
11097	1029	1.04	1122	1.42	1202	1.77	1281	2.17	1362	2.60	1456	3.17								
12106	1123	1.35	1211	1.77	1281	2.14	1356	2.56	1429	3.00	1507	3.52	1592	4.14						
13114	1217	1.72	1301	2.19	1366	2.58	1434	3.02	1501	3.49	1568	3.97	1643	4.57						
14123	1311	2.15	1389	2.65	1451	3.08	1513	3.53	1577	4.02	1640	4.55	1701	5.06	1845	6.46				
15132	1404	2.64	1478	3.18	1538	3.65	1595	4.11	1655	4.64	1713	5.18	1772	5.73	1896	7.02				
16141	1498	3.21	1567	3.78	1626	4.30	1680	4.79	1734	5.31	1790	5.88	1844	6.46	1952	7.65	2081	9.26		
17150	1591	3.85	1657	4.45	1716	5.03	1765	5.53	1815	6.07	1868	6.67	1920	7.27	2033	8.53	2133	9.99		
18158	1685	4.57	1748	5.21	1805	5.84	1851	6.37	1899	6.93	1948	7.52	1998	8.16	2095	9.48				
19167	1778	5.37	1838	6.05	1894	6.73	1940	7.30	1985	7.88	2029	8.48	2077	9.14	2169	10.52				
20176	1872	6.27	1929	6.98	1982	7.69	2028	8.33	2070	8.92	2113	9.55	2156	10.18						
21185	1966	7.26	2020	8.75	2071	8.75	2117	9.45	2156	10.08										
22194	2060	8.35	2111	9.13	2160	9.90														
23202	2153	9.54																		

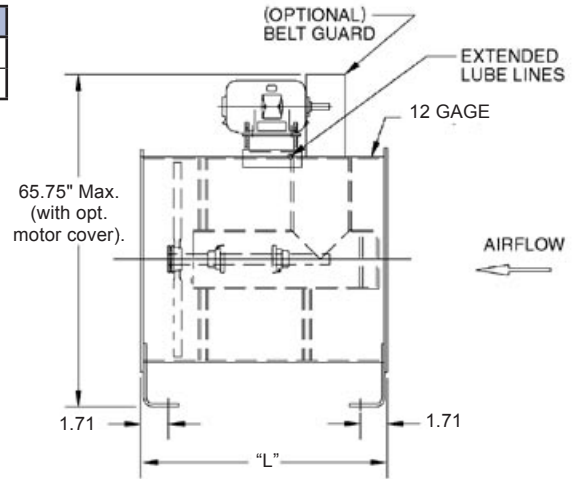
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 032

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	28.00	—
286	—	36.00



Prop Diameter = 32 in.
Max. RPM = 2149
Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
5700	414	0.10	586	0.30																	
6840	497	0.17	635	0.38																	
7980	580	0.27	703	0.52	826	0.83															
9120	663	0.40	772	0.68	866	0.97															
10260	746	0.57	847	0.89	933	1.21	1028	1.61													
11400	829	0.78	924	1.15	1001	1.49	1074	1.85	1172	2.39											
12540	911	1.04	1003	1.46	1070	1.81	1141	2.22	1210	2.64	1304	3.28									
13680	994	1.35	1083	1.82	1141	2.19	1209	2.62	1270	3.06	1342	3.59	1426	4.29							
14820	1077	1.71	1163	2.25	1218	2.64	1278	3.09	1338	3.57	1393	4.03	1464	4.67							
15960	1160	2.14	1240	2.72	1296	3.16	1347	3.61	1406	4.12	1460	4.65	1510	5.13	1652	6.68					
17100	1243	2.63	1319	3.25	1375	3.76	1421	4.21	1474	4.74	1527	5.30	1576	5.85	1690	7.18					
18240	1326	3.20	1397	3.85	1454	4.43	1498	4.91	1544	5.43	1595	6.02	1644	6.62	1732	7.75	1861	9.55			
19380	1408	3.83	1476	4.53	1534	5.18	1576	5.69	1616	6.21	1664	6.82	1711	7.45	1799	8.69	1899	10.20	2018	12.20	
20520	1491	4.55	1556	5.29	1614	6.02	1655	6.56	1693	7.10	1734	7.69	1780	8.35	1866	9.70	1944	11.00	2056	12.90	
21660	1574	5.35	1635	6.13	1692	6.92	1734	7.52	1771	8.09	1807	8.67	1850	9.35	1933	10.80	2011	12.10	2094	13.70	
22800	1657	6.24	1715	7.06	1770	7.89	1813	8.58	1849	9.18	1884	9.78	1920	10.40	2002	11.90	2078	13.40			
23940	1740	7.23	1796	8.09	1848	8.95	1893	9.74	1927	10.40	1961	11.00	1993	11.60	2070	13.10	2145	14.70			
25080	1823	8.31	1876	9.21	1926	10.10	1973	11.00	2007	11.70	2039	12.30	2070	13.00	2140	14.50					
26220	1906	9.50	1957	10.40	2005	11.40	2052	12.30	2086	13.10	2117	13.80									
27360	1988	10.80	2037	11.80	2084	12.80	2129	13.80													
28500	2071	12.20	2118	13.20	2164	14.20															

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

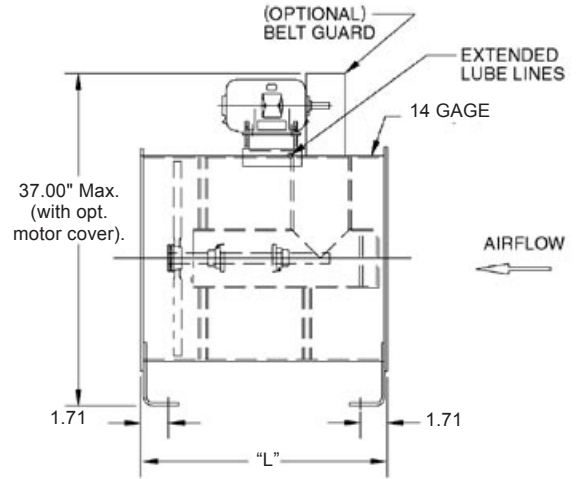
# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 036

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	36.00	—
326	—	42.00

Prop Diameter = 36 in.
Max. RPM = 1910
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.72 sq. ft.)



CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
7720	394	0.15	533	0.41																	
9624	473	0.26	590	0.55																	
10808	552	0.42	655	0.75	751	1.13															
12352	630	0.62	723	1.00	803	1.39	899	1.94													
13896	709	0.88	796	1.32	867	1.75	935	2.20	1030	2.91											
15440	788	1.21	871	1.72	933	2.16	996	2.66	1066	3.24											
16984	867	1.61	946	2.20	999	2.65	1061	3.20	1116	3.73	1185	4.45	1260	5.33							
18528	946	2.09	1023	2.76	1072	3.25	1126	3.81	1180	4.42	1229	4.98	1296	5.83							
20072	1025	2.66	1096	3.38	1146	3.94	1192	4.50	1244	5.15	1292	5.81	1337	6.42	1466	8.40					
21616	1103	3.32	1171	4.10	1221	4.74	1262	5.31	1309	5.99	1356	6.69	1400	7.38	1502	9.07					
23160	1182	4.09	1246	4.92	1296	5.65	1335	6.26	1376	6.92	1421	7.67	1464	8.43	1543	9.87	1656	12.10			
24704	1261	4.96	1321	5.85	1372	6.68	1409	7.33	1445	7.99	1487	8.76	1529	9.56	1606	11.10	1692	13.00	1798	15.50	
26248	1340	5.95	1396	6.89	1448	7.84	1484	8.53	1518	9.22	1554	9.96	1594	10.80	1670	12.50	1739	14.10	1834	16.50	
27792	1419	7.06	1472	8.06	1522	9.07	1559	9.86	1592	10.60	1624	11.30	1660	12.20	1734	14.00	1803	15.80	1871	17.60	
29336	1497	8.30	1548	9.36	1596	10.40	1635	11.30	1667	12.10	1697	12.90	1727	13.70	1799	15.60	1867	17.50			
30880	1576	9.68	1625	10.80	1671	11.90	1711	13.00	1742	13.80	1771	14.60	1799	15.40	1865	17.30					
32424	1655	11.20	1701	12.40	1745	13.50	1787	14.70	1817	15.60	1845	16.40	1873	17.30							
33968	1734	12.90	1778	14.10	1821	15.30	1861	16.60	1893	17.60											
35512	1813	14.70	1855	16.00	1896	17.30															
37056	1891	16.70																			

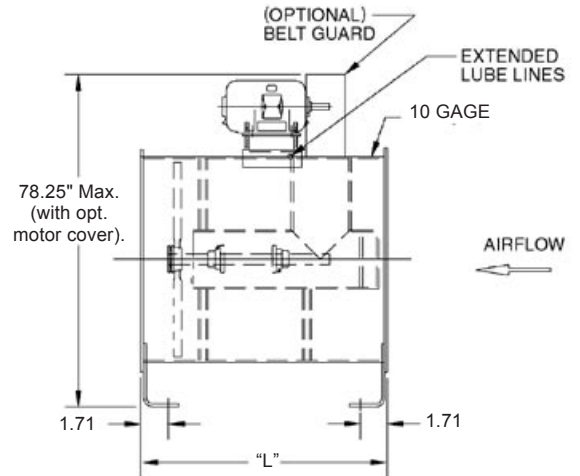
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 042

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	36.00	—
326	—	42.00



Prop Diameter = 42 in.
Max. RPM = 1637
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
9820	316	0.17	447	0.51																	
11784	379	0.29	484	0.66																	
13748	442	0.46	535	0.89	630	1.44															
15712	505	0.69	588	1.17	660	1.67															
17676	568	0.98	645	1.53	711	2.09	783	2.78													
19640	631	1.34	704	1.98	763	2.56	818	3.18	893	4.11											
21604	694	1.79	764	2.51	815	3.12	870	3.82	922	4.55	993	5.65									
23568	758	2.32	825	3.14	870	3.77	921	4.52	968	5.27	1022	6.19	1087	7.40							
25532	821	2.95	886	3.88	928	4.55	973	5.32	1019	6.15	1061	6.94	1116	8.04							
27496	884	3.69	945	4.68	988	5.45	1027	6.21	1071	7.11	1112	8.00	1150	8.84	1259	11.50					
29460	947	4.54	1005	5.60	1048	6.48	1083	7.26	1123	8.17	1164	9.13	1201	10.10	1288	12.40					
31424	1010	5.51	1065	6.64	1108	7.63	1142	8.46	1177	9.36	1216	10.40	1252	11.40	1320	13.30	1418	16.40			
33388	1073	6.61	1125	7.81	1169	8.93	1201	9.81	1232	10.70	1268	11.70	1304	12.80	1371	15.00	1447	17.50	1538	21.00	
35352	1136	7.84	1185	9.11	1230	10.40	1261	11.30	1290	12.20	1322	13.30	1356	14.40	1422	16.70	1481	18.90	1567	22.20	
37316	1199	9.22	1246	10.60	1289	11.90	1321	13.00	1349	13.90	1377	14.90	1409	16.10	1473	18.50	1532	20.90	1596	23.60	
39280	1263	10.80	1307	12.20	1349	13.60	1381	14.80	1409	15.80	1435	16.90	1463	18.00	1525	20.50	1583	23.10			
41244	1326	12.50	1368	13.90	1408	15.40	1442	16.80	1469	17.90	1494	18.90	1519	20.00	1578	22.60	1635	25.30			
43208	1389	14.30	1429	15.90	1468	17.40	1503	19.00	1529	20.10	1554	21.20	1578	22.40	1631	24.90					
45172	1452	16.40	1491	18.00	1528	19.60	1563	21.30	1589	22.50	1613	23.70									
47136	1515	18.60	1552	20.30	1588	22.00	1622	23.70													
49100	1578	21.00	1614	22.80	1649	24.50															

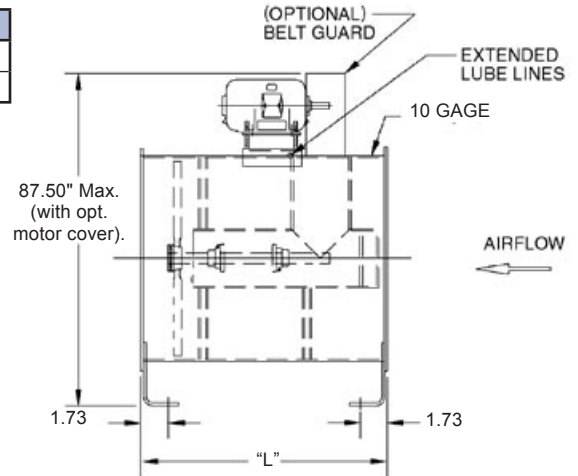
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 048

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	42.00	—
405	—	48.00



Prop Diameter = 48 in.
Max. RPM = 1432
Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
12830	276	0.22	391	0.67																	
15396	332	0.38	424	0.86																	
17962	387	0.60	469	1.16	551	1.88															
20528	442	0.90	515	1.53	577	2.18															
23094	497	1.28	565	2.00	622	2.73	685	3.63													
25660	553	1.76	616	2.58	667	3.35	716	4.16	782	5.37											
28226	608	2.34	669	3.28	714	4.07	761	5.00	807	5.94	869	7.38									
30792	663	3.04	722	4.11	761	4.92	806	5.91	847	6.89	895	8.09	951	9.66							
33358	718	3.86	776	5.07	813	5.95	852	6.95	892	8.04	929	9.07	976	10.50							
35924	774	4.82	827	6.12	864	7.13	899	8.12	937	9.29	973	10.50	1007	11.60	1102	15.00					
38490	829	5.93	879	7.32	917	8.47	948	9.48	983	10.70	1018	11.90	1051	13.20	1127	16.20					
41056	884	7.20	932	8.68	970	9.98	999	11.10	1030	12.20	1064	13.60	1096	14.90	1155	17.40	1241	21.50			
43622	939	8.64	984	10.20	1023	11.70	1051	12.80	1078	14.00	1110	15.40	1141	16.80	1199	19.60	1266	22.90	1346	27.40	
46188	995	10.30	1037	11.90	1076	13.60	1103	14.80	1129	16.00	1157	17.30	1187	18.80	1244	21.80	1296	24.70	1371	29.00	
48754	1050	13.80	1091	13.80	1129	15.60	1156	16.90	1181	18.20	1205	19.50	1233	21.00	1289	24.20	1341	27.30	1396	30.80	
51320	1105	14.10	1144	15.90	1180	17.80	1209	19.30	1233	20.70	1256	22.00	1280	23.50	1335	26.80	1386	30.20			
53886	1160	16.30	1197	18.20	1232	20.20	1262	21.90	1285	23.30	1308	24.80	1329	26.20	1381	29.60	1431	33.10			
56452	1216	18.70	1251	20.70	1285	22.80	1316	24.80	1338	26.30	1360	27.70	1381	29.20	1427	32.60					
59018	1271	21.40	1305	23.50	1337	25.60	1368	27.80	1391	29.40	1412	31.00									
61584	1326	24.30	1359	26.50	1390	28.70	1420	31.00													
64150	1381	27.50	1413	29.80																	

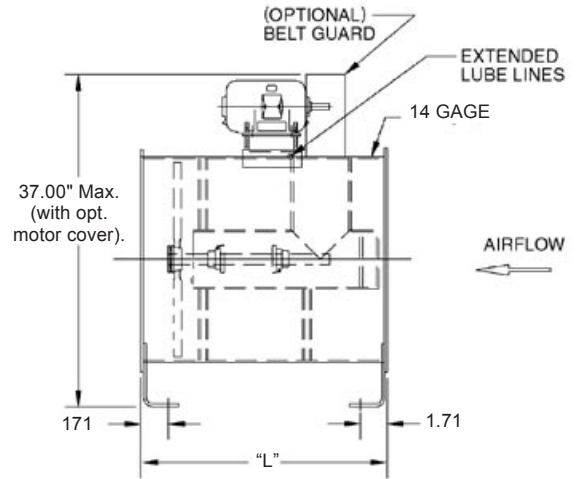
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 054

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	42.00	—
405	—	48.00



Prop Diameter = 54 in.
Max. RPM = 1273
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16240	246	0.28	347	0.85																
19488	295	0.48	377	1.09																
22736	344	0.76	417	1.47	490	2.38														
25984	393	1.14	458	1.94	513	2.76														
29232	442	1.62	502	2.53	553	3.46	609	4.60												
32480	491	2.23	548	3.27	593	4.24	637	5.27	695	6.80										
35728	540	2.96	595	4.16	634	5.16	677	6.33	717	7.52	773	9.34								
38976	589	3.85	642	5.20	677	6.23	717	7.48	753	8.72	795	10.20	845	12.20						
42224	639	4.89	689	6.42	722	7.53	757	8.79	793	10.20	826	11.50	868	13.30						
45472	688	6.11	735	7.75	768	9.02	799	10.30	833	11.80	865	13.20	895	14.60	979	19.00				
48720	737	7.51	782	9.27	815	10.70	842	12.00	874	13.50	905	15.10	934	16.70	1002	20.40				
51968	786	9.12	828	11.00	862	12.60	888	14.00	915	15.50	946	17.20	974	18.90	1027	22.10	1103	27.20		
55216	835	10.90	875	12.90	909	14.80	934	16.20	958	17.70	987	19.40	1015	21.20	1066	24.80	1125	29.00	1196	34.70
58464	884	13.00	922	15.10	957	17.20	981	18.70	1004	20.30	1028	21.90	1055	23.80	1106	27.70	1152	31.20	1219	36.80
61712	933	15.30	970	17.50	1003	19.70	1028	21.40	1050	23.10	1071	24.70	1096	26.60	1146	30.70	1192	34.60	1241	39.00
64960	982	17.80	1017	20.10	1049	22.50	1075	24.50	1096	26.20	1117	27.90	1138	29.70	1187	33.90	1232	38.20		
68208	1032	20.60	1065	23.10	1096	25.50	1122	27.80	1143	29.60	1163	31.40	1182	33.20	1227	37.50	1272	41.90		
71456	1081	23.70	1112	26.30	1142	28.80	1170	31.40	1190	33.30	1209	35.10	1227	37.00	1269	41.30				
74704	1130	27.10	1160	29.80	1189	32.50	1216	35.20	1237	37.30	1255	39.20								
77952	1179	30.80	1208	33.60	1236	36.40	1262	39.20												
81200	1228	34.80	1256	37.70																

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.



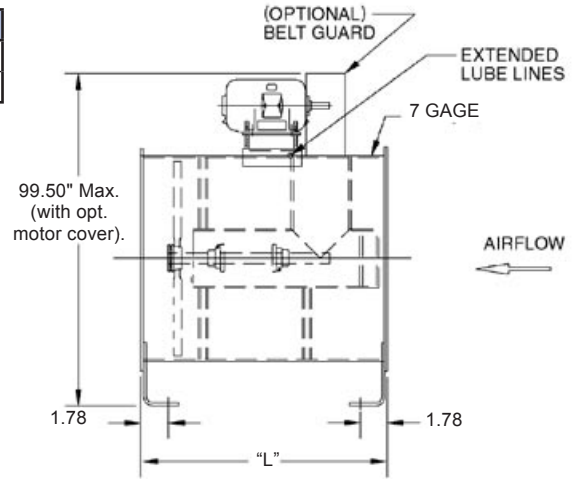
# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 060

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00

Prop Diameter = 60 in.
Max. RPM = 1146
Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)



CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
20050	221	0.34	313	1.05																	
24060	265	0.59	339	1.35																	
28070	309	0.94	375	1.81	441	2.94															
32080	354	1.41	412	2.39	462	3.41															
36090	398	2.00	452	3.13	498	4.27	548	5.67													
40100	442	2.75	493	4.04	534	5.24	573	6.50	625	8.39											
44110	486	3.66	535	5.13	571	6.37	609	7.81	646	9.29	696	11.50									
48120	531	4.75	578	6.42	609	7.69	645	9.24	678	10.80	716	12.60	761	15.10							
52130	575	6.04	621	7.92	650	9.30	682	10.90	714	12.60	743	14.20	781	16.40							
56140	619	7.54	662	9.57	692	11.10	719	12.70	750	14.50	779	16.40	805	18.10	881	23.50					
60150	663	9.28	704	11.40	734	13.20	758	14.80	787	16.70	815	18.70	841	20.60	902	25.20					
64160	707	11.30	745	13.60	776	15.60	799	17.30	824	19.10	851	21.20	877	23.30	924	27.30	993	33.60			
68170	752	13.50	788	16.00	818	18.30	841	20.00	862	21.80	888	24.00	913	26.20	960	30.60	1013	35.80	1077	42.80	
72180	796	16.00	830	18.60	861	21.20	883	23.10	903	25.00	925	27.10	950	29.40	996	34.10	1037	38.50	1097	45.40	
76190	840	18.90	873	21.60	903	24.40	925	26.50	945	28.50	964	30.50	987	32.90	1032	37.90	1073	42.70	1117	48.10	
80200	884	22.00	915	24.90	944	27.80	967	30.20	987	32.30	1005	34.40	1024	36.70	1068	41.90	1109	47.20			
84210	928	25.50	958	28.50	986	31.50	1010	34.30	1028	36.50	1046	38.70	1064	40.90	1105	46.20	1145	51.80			
88220	973	29.30	1001	32.40	1028	35.60	1053	38.80	1071	41.10	1088	43.40	1105	45.70	1142	50.90					
92230	1017	33.40	1044	36.70	1070	40.10	1095	43.40	1113	46.00	1130	48.40									
96240	1061	38.00	1087	41.40	1112	44.90	1136	48.40													
100250	1105	42.90	1130	46.50																	

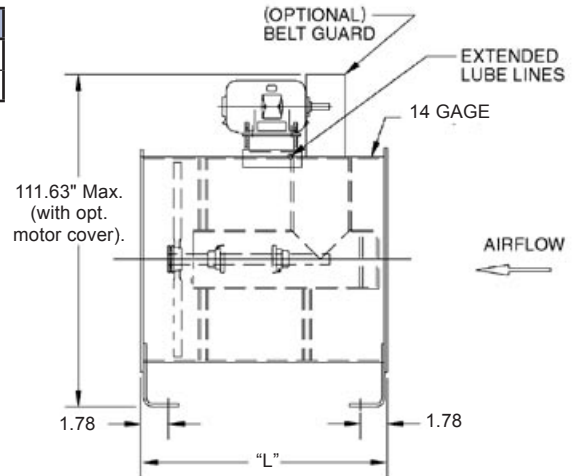
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 072

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 72 in.
Max. RPM = 955
Tip Speed, FPM = 18.85 x RPM
Inlet & Outlet Diameter (Area) = 72.75 in. (28.87 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
28870	184	0.49	261	1.51																	
34644	221	0.85	282	1.94																	
40418	258	1.36	312	2.61	367	4.23															
46192	295	2.03	343	3.44	385	4.91															
51966	332	2.88	376	4.50	415	6.15	457	8.17													
57740	368	3.96	411	5.81	445	7.54	478	9.36	521	12.10											
63514	405	5.27	446	7.39	476	9.17	507	11.20	538	13.40	580	16.60									
69288	442	6.84	481	9.25	507	11.10	537	13.30	565	15.50	596	18.20	634	21.70							
75062	479	8.69	517	11.40	542	13.40	568	15.60	595	18.10	619	20.40	651	23.60							
80836	516	10.90	552	13.80	576	16.00	599	18.30	625	20.90	649	23.50	671	26.00	735	33.80					
86610	553	13.40	586	16.50	611	19.10	632	21.30	656	24.00	679	26.90	701	29.60	751	36.40					
92384	589	16.20	621	19.50	647	22.50	666	24.90	687	27.50	709	30.50	731	33.60	770	39.30	827	48.30			
98158	626	19.40	656	23.00	682	26.30	701	28.90	719	31.50	740	34.50	761	37.70	800	44.00	844	51.60	897	61.60	
103932	663	23.10	692	26.80	718	30.50	736	33.30	753	36.00	771	39.00	791	42.30	830	49.20	864	55.50	914	65.30	
109706	700	27.10	727	31.10	752	35.10	771	38.10	787	41.00	803	43.90	822	47.40	860	54.50	894	61.50	931	69.30	
115480	737	31.70	763	35.80	787	40.00	806	43.50	822	46.50	837	49.60	854	52.80	890	60.30	924	67.90			
121254	774	36.60	798	41.00	822	45.40	842	49.40	857	52.50	872	55.70	886	59.00	920	66.60	954	74.50			
127028	810	42.10	834	46.70	857	51.30	877	55.80	892	59.10	907	62.40	921	65.80	951	73.30					
132802	847	48.10	870	52.90	892	57.70	912	62.50	927	66.20	941	69.70									
138576	844	54.70	906	59.70	927	64.70	947	69.70													
144350	921	61.80	942	67.00																	

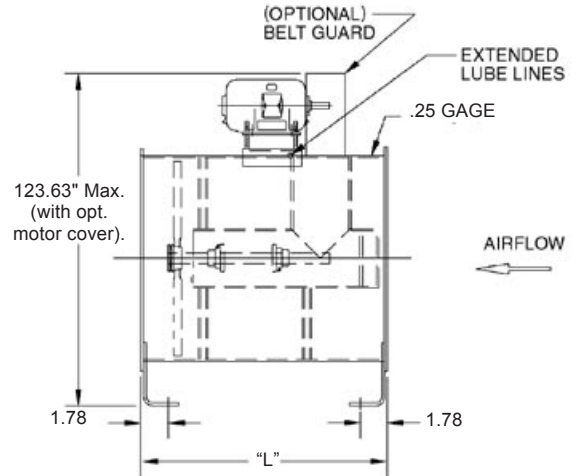
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-091 Tubeaxial Fan

# 084

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 84 in.
Max. RPM = 819
Tip Speed, FPM = 21.99 x RPM
Inlet & Outlet Diameter (Area) = 84.88 in. (39.29 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
39290	158	0.67	223	2.06																	
47148	189	1.16	242	2.64																	
55006	221	1.85	268	3.55	315	5.75															
62864	253	2.76	294	4.68	330	6.68															
70722	284	3.92	323	6.12	356	8.36	392	11.10													
78580	316	5.38	352	7.91	381	10.30	409	12.70	447	16.40											
86438	347	7.17	382	10.10	408	12.50	435	15.30	461	18.20	497	22.60									
94296	379	9.30	413	12.60	435	15.10	461	18.10	484	21.10	511	24.80	543	29.60							
102154	410	11.80	443	15.50	464	18.20	487	21.30	510	24.60	531	27.80	558	32.20							
110012	442	14.80	473	18.70	494	21.80	513	24.90	536	28.40	556	32.00	575	35.40	630	46.00					
117870	474	18.20	502	22.40	524	25.90	542	29.00	562	32.70	582	36.60	601	40.30	644	49.50					
125728	505	22.10	532	26.60	554	30.60	571	33.90	588	37.40	608	41.50	626	45.70	660	53.40	709	65.80			
133586	537	26.50	563	31.30	584	35.80	601	39.30	616	42.80	634	47.00	652	51.40	685	59.90	723	70.20	769	83.80	
141444	568	31.40	593	36.50	615	41.50	630	45.20	645	49.00	661	53.00	678	57.60	711	66.90	741	75.50	783	88.90	
149302	600	36.90	623	42.30	645	47.70	661	51.90	675	55.80	688	59.80	705	64.40	737	74.20	766	83.60	798	94.30	
157160	631	43.10	654	48.70	674	54.40	691	59.20	705	63.30	718	67.40	732	71.90	763	82.10	792	92.40			
165018	663	49.90	684	55.80	704	61.80	721	67.20	734	71.50	747	75.80	760	80.20	789	90.60	817	101.00			
178276	695	57.30	715	63.50	734	69.80	752	75.90	765	80.40	777	85.00	789	89.50	815	99.80					
180734	726	65.50	746	72.00	764	78.50	782	85.10	795	90.10	807	94.90	818	99.60							
188592	758	74.40	776	81.20	794	88.00	811	94.80													
196450	789	84.10	807	91.20																	

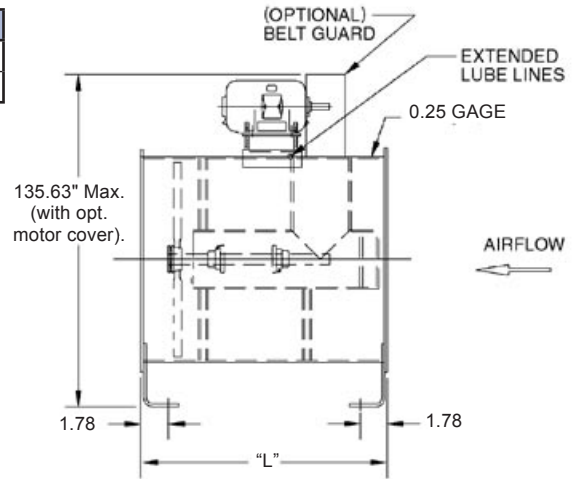
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-091

# 096

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	54.00	—
405	—	60.00



Prop Diameter = 96 in.
Max. RPM = 716
Tip Speed, FPM = 25.13 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (51.32 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP			
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
51320	138	0.88	195	2.69																		
61584	166	1.52	212	3.45																		
71848	193	2.41	234	4.64	275	7.52																
82112	221	3.60	257	6.11	289	8.72																
92376	249	5.13	282	8.00	311	10.90	343	14.50														
102640	276	7.03	308	10.30	334	13.40	358	16.60	391	21.50												
112904	304	9.36	335	13.10	357	16.30	381	20.00	404	23.80	435	29.50										
123168	332	12.20	361	16.40	381	19.70	403	23.60	424	27.60	447	32.30	476	38.70								
133432	359	15.50	388	20.30	406	23.80	426	27.80	446	32.20	464	36.30	488	42.00								
143696	387	19.30	414	24.50	432	28.50	449	32.50	469	37.10	487	41.80	503	46.20	551	60.10						
153960	414	23.70	440	29.30	458	33.90	474	37.90	492	42.70	509	47.70	526	52.70	564	64.60						
164224	442	28.80	466	34.70	485	39.90	500	44.20	515	48.90	532	54.20	548	59.60	577	69.80	620	85.90				
174488	470	34.60	492	40.80	511	46.70	526	51.30	539	55.90	555	61.40	571	67.10	600	78.20	633	91.60	673	110.00		
184752	497	41.00	519	47.70	538	54.30	552	59.10	565	64.00	578	69.30	594	75.30	622	87.40	648	98.70	685	116.00		
195016	525	48.20	545	55.20	564	62.30	578	67.80	590	72.90	602	78.10	617	84.20	645	96.90	670	109.00	698	123.00		
205280	553	56.30	572	63.60	590	71.10	605	77.30	616	82.70	628	88.10	640	93.90	667	107.00	693	121.00	716	133.00		
215544	580	65.10	599	72.90	616	80.70	631	87.70	643	93.40	654	99.10	665	105.00	690	118.00	715	132.00				
225808	608	74.90	626	83.00	642	91.10	658	99.20	669	105.00	680	111.00	690	117.00	714	130.00						
236072	635	85.60	652	94.00	669	103.00	684	111.00	696	118.00	706	124.00	716	130.00								
246336	663	97.20	679	106.00	695	115.00	710	124.00														
256600	691	110.00	706	119.00																		

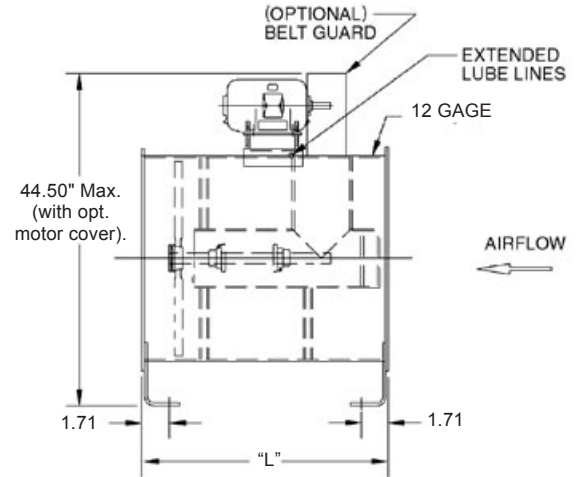
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

# 018

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 18 in.
Max. RPM = 2228
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (1.80 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	774	0.05	853	0.11	1082	0.21	1383	0.39	1552	0.57	1700	0.77	1834	0.98						
2160	797	0.08	948	0.15	1123	0.25	1331	0.39	1585	0.60	1759	0.82	1893	1.04	2131	1.52				
2520	929	0.13	1066	0.21	1199	0.31	1354	0.44	1533	0.61	1757	0.85	1953	1.10	2190	1.61				
2880	1062	0.19	1186	0.28	1292	0.38	1420	0.51	1560	0.67	1705	0.85	1907	1.11	2251	1.69				
3240	1195	0.27	1307	0.37	1400	0.47	1508	0.61	1623	0.76	1747	0.94	1868	1.13	2215	1.71				
3600	1328	0.37	1431	0.48	1519	0.59	1602	0.72	1705	0.88	1811	1.06	1921	1.26						
3960	1461	0.49	1555	0.61	1640	0.74	1712	0.87	1798	1.02	1890	1.20	1987	1.40						
4320	1593	0.63	1681	0.77	1760	0.91	1831	1.04	1895	1.18	1982	1.37	2066	1.57						
4680	1726	0.80	1807	0.95	1882	1.10	1951	1.25	2013	1.40	2076	1.56	2158	1.77						
5040	1859	1.01	1935	1.16	2006	1.32	2072	1.48	2131	1.65	2187	1.81								
5400	1992	1.24	2063	1.40	2130	1.58	2193	1.75												
5760	2124	1.50	2192	1.68																

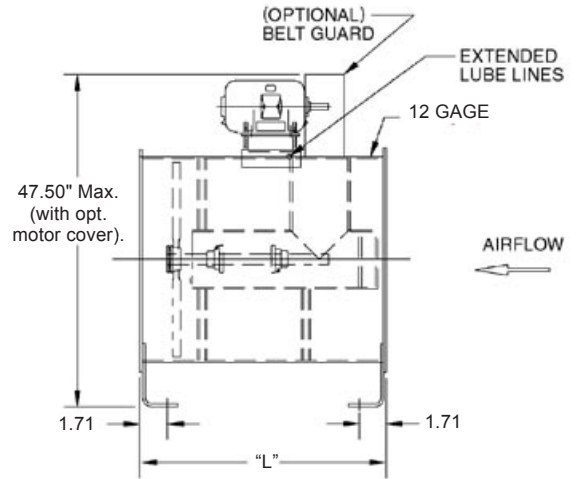
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 021

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 21 in.
Max. RPM = 1909
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 121.21 in. (2.45 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP				
2450	569	0.06	731	0.15	927	0.29	1186	0.53	1330	0.78	1457	1.04	1572	1.33						
2940	683	0.11	812	0.20	963	0.34	1141	0.54	1359	0.82	1508	1.11	1622	1.41	1826	2.07				
3430	797	0.17	913	0.28	1028	0.42	1161	0.60	1314	0.82	1506	1.15	1674	1.50	1877	2.19				
3920	910	0.26	1017	0.38	1108	0.51	1217	0.69	1337	0.91	1462	1.15	1635	1.51	1929	2.31				
4410	1024	0.36	1121	0.50	1200	0.64	1293	0.82	1392	1.04	1497	1.28	1602	1.54	1898	2.33				
4900	1138	0.50	1226	0.65	1302	0.81	1373	0.98	1462	1.20	1552	1.44	1646	1.72	1854	2.33				
5390	1252	0.66	1333	0.83	1406	1.01	1468	1.18	1541	1.39	1620	1.63	1703	1.90	1876	2.51				
5880	1366	0.86	1441	1.05	1509	1.23	1569	1.42	1624	1.61	1699	1.87	1771	2.13						
6370	1480	1.10	1549	1.29	1613	1.50	1673	1.70	1725	1.91	1780	2.13	1850	2.41						
6860	1593	1.37	1659	1.58	1719	1.80	1776	2.02	1827	2.24	1875	2.46								
7350	1707	1.68	1768	1.91	1826	2.14	1880	2.38												
7840	1821	2.04	1878	2.29																

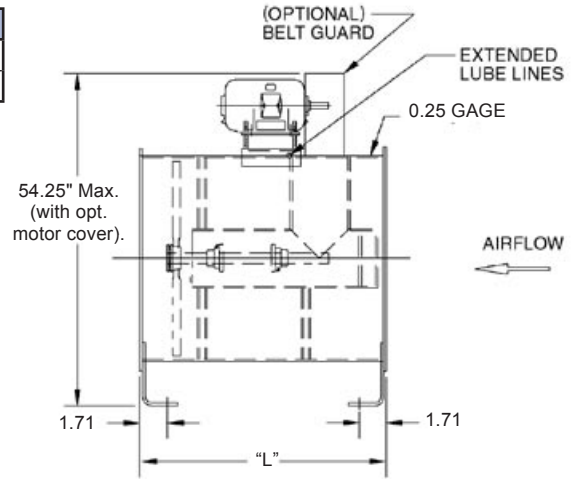
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

# 024

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	32.00



Prop Diameter = 24 in.
Max. RPM = 1672
Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP				
3210	499	0.08	641	0.20	811	0.38	1037	0.70	1164	1.01	1275	1.36	1376	1.74						
3852	599	0.14	712	0.26	844	0.45	998	0.70	1188	1.07	1320	1.46	1420	1.85	1599	2.71				
4494	699	0.23	801	0.37	901	0.55	1017	0.79	1149	1.08	1317	1.50	1466	1.97	1643	2.86				
5136	799	0.34	892	0.50	971	0.67	1066	0.91	1171	1.20	1278	1.50	1429	1.98						
5778	899	0.48	983	0.66	1053	0.85	1133	1.08	1219	1.36	1311	1.68	1402	2.01						
6420	999	0.66	1076	0.86	1142	1.07	1203	1.28	1281	1.57	1360	1.89	1442	2.25						
7062	1099	0.87	1170	1.10	1233	1.32	1287	1.55	1351	1.82	1420	2.14	1492	2.49						
7704	1199	1.14	1264	1.38	1324	1.62	1377	1.87	1425	2.12	1489	2.45	1552	2.80						
8346	1299	1.44	1359	1.70	1416	1.97	1467	2.24	1513	2.51	1560	2.79	1621	3.16						
8988	1399	1.80	1455	2.08	1508	2.37	1558	2.66	1603	2.95	1644	3.23								
9630	1498	2.22	1552	2.52	1602	2.82	1649	3.13												
10272	1598	2.69	1649	3.01																

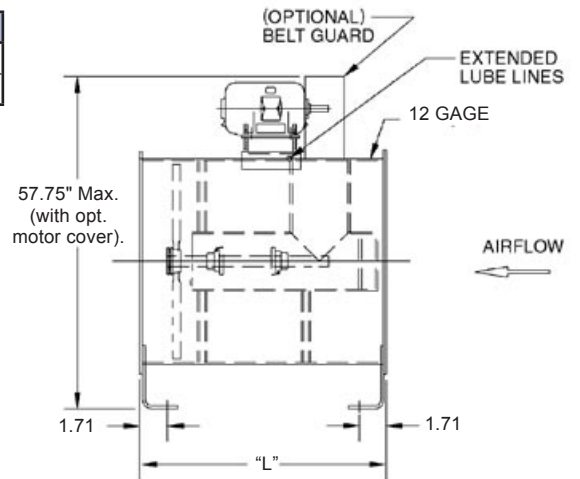
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 027

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	32.00



Prop Diameter = 27 in.
Max. RPM = 1485
Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4060	444	0.10	569	0.25	721	0.48	922	0.88	1035	1.28	1134	1.72	1223	2.20						
4872	532	0.18	633	0.33	750	0.57	887	0.89	1056	1.36	1174	1.84	1262	2.34	1421	3.43				
5684	621	0.28	712	0.47	801	0.69	904	0.99	1022	1.36	1171	1.90	1303	2.49	1461	3.62				
6496	710	0.43	792	0.63	863	0.85	948	1.15	1040	1.51	1136	1.90	1271	2.50	1501	3.81				
7308	799	0.61	873	0.84	935	1.07	1007	1.37	1083	1.72	1165	2.13	1246	2.54	1476	3.85				
8120	887	0.83	956	1.09	1015	1.35	1069	1.62	1139	1.98	1208	2.39	1281	2.84						
8932	976	1.11	1039	1.39	1095	1.67	1144	1.96	1200	2.30	1262	2.71	1326	3.15						
9744	1065	1.43	1123	1.74	1176	2.05	1223	2.36	1266	2.68	1323	3.10	1379	3.53						
10556	1154	1.82	1208	2.15	1258	2.49	1303	2.83	1344	3.17	1386	3.53	1441	4.00						
11368	1242	2.28	1293	2.63	1340	2.99	1384	3.36	1424	3.72	1461	4.09								
12180	1331	2.80	1378	3.18	1423	3.57	1465	3.96												

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

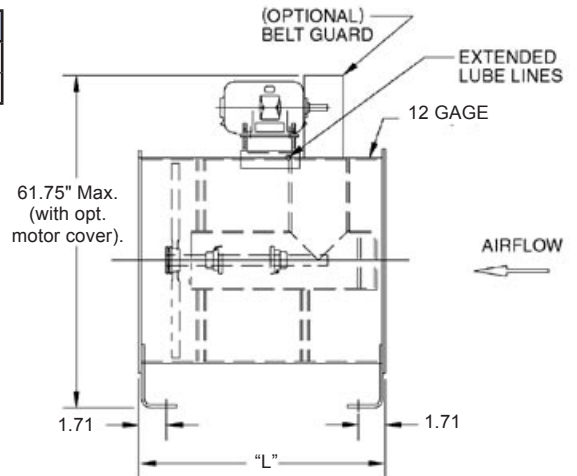


# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

# 030

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	36.00



Prop Diameter = 30 in.
Max. RPM = 1337
Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5044	415	0.12	524	0.30	682	0.62	845	1.06	953	1.53	1038	2.03	1115	2.57						
6053	497	0.22	583	0.40	699	0.70	836	1.14	973	1.65	1082	2.21	1161	2.78	1298	4.02				
7062	580	0.35	652	0.55	737	0.83	848	1.25	965	1.75	1086	2.35	1193	2.99	1345	4.31				
8070	663	0.52	728	0.74	796	1.03	871	1.38	978	1.91	1077	2.46	1186	3.14						
9079	716	0.74	804	1.00	859	1.27	927	1.65	1000	2.09	1094	2.68	1181	3.29						
10088	829	1.02	882	1.30	930	1.58	986	1.96	1048	2.39	1117	2.90	1201	3.55						
11097	912	1.36	961	1.67	1005	1.98	1050	2.33	1106	2.79	1161	3.26	1224	3.82						
12106	995	1.75	1040	2.09	1082	2.43	1120	2.77	1167	3.23	1219	3.75	1269	4.26						
13114	1078	2.23	1120	2.59	1159	2.96	1195	3.33	1233	3.75	1279	4.26	1327	4.83						
14123	1160	2.79	1200	3.18	1195	3.58	1271	3.98	1304	4.37										
15132	1243	3.43	1280	3.85	1271	4.27														

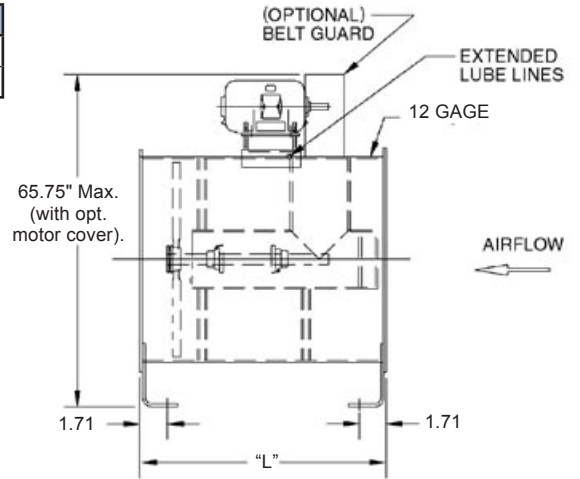
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 032

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	28.00	—
286	—	36.00



Prop Diameter = 32 in.
Max. RPM = 1253
Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5700	395	0.14	494	0.33	656	0.71	793	1.18	898	1.70	974	2.24	1044	2.82	1168	4.10				
6840	474	0.25	550	0.45	665	0.79	802	1.30	918	1.85	1020	2.46	1094	3.08	1216	4.42				
7980	553	0.39	612	0.60	695	0.93	811	1.42	927	2.01	1029	2.65	1121	3.33	1267	4.77				
9120	632	0.58	685	0.82	751	1.15	820	1.54	936	2.17	1038	2.84	1130	3.56						
10260	711	0.83	758	1.10	808	1.40	874	1.84	945	2.33	1047	3.04	1139	3.79						
11400	790	1.14	833	1.44	873	1.74	931	2.18	988	2.67	1056	3.24	1148	4.03						
12540	869	1.52	909	1.85	945	2.18	988	2.57	1044	3.11	1094	3.63	1157	4.27						
13680	948	1.97	985	2.33	1019	2.69	1051	3.05	1101	3.59	1150	4.18	1196	4.75						
14820	1027	2.51	1061	2.89	1093	3.28	1123	3.67	1159	4.13	1207	4.75	1252	5.39						
15960	1106	3.13	1138	3.54	1168	3.97	1196	4.39	1224	4.81										
17100	1185	3.85	1215	4.29	1243	4.74														

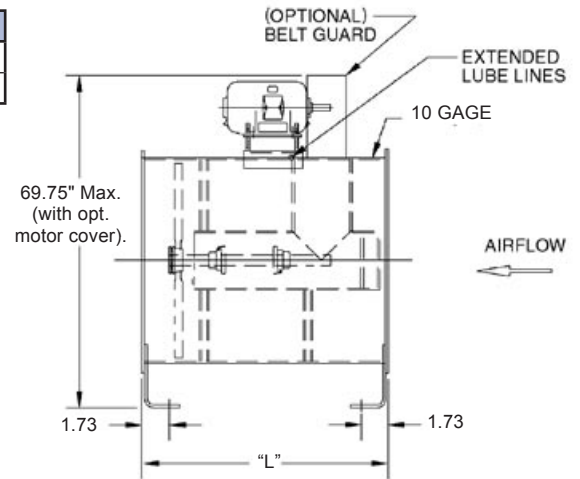
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

# 036

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	36.00	—
326	—	42.00



Prop Diameter = 36 in.
Max. RPM = 1115
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (57.72 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7720	376	0.22	457	0.47	586	0.94	708	1.55	811	2.23	882	2.93	943	3.69	1053	5.33				
9264	451	0.38	511	0.64	594	1.05	716	1.70	819	2.43	910	3.21	992	4.05	1100	5.78				
10808	526	0.61	576	0.89	642	1.31	725	1.87	828	2.64	918	3.47	1000	4.35						
12352	601	0.91	645	1.23	696	1.63	756	2.15	836	2.86	927	3.73	1009	4.66						
13896	677	1.29	716	1.65	752	2.02	809	2.60	860	3.18	935	4.01	1017	4.98						
15440	752	1.77	788	2.17	821	2.58	863	3.10	913	3.76	958	4.41	1026	5.31						
16984	827	2.36	860	2.80	890	3.25	920	3.69	967	4.40	1011	5.12	1052	5.83						
18528	902	3.06	932	3.54	961	4.03	988	4.52	1022	5.11	1065	5.90	1105	6.69						
20072	977	3.89	1005	4.41	1032	4.94	1058	5.47	1083	6.00										
21616	1052	4.86	1079	5.42	1104	5.98														
21616	1052	4.86	1079	5.42	1104	5.98														

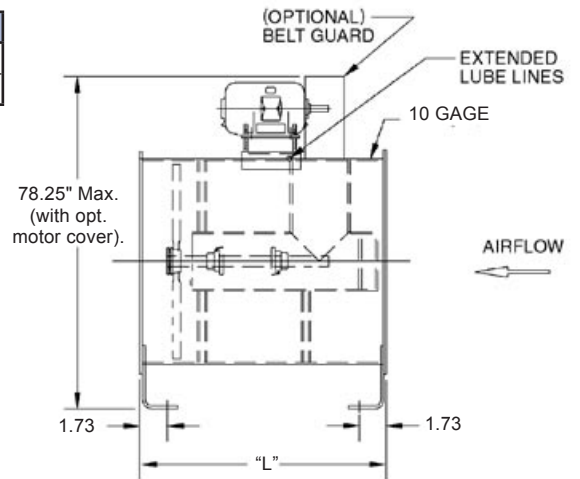
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 042

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	36.00	—
326	—	42.00



Prop Diameter = 42 in.
Max. RPM = 955
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9820	301	0.25	376	0.57	500	1.23	604	2.04	684	2.92	742	3.86	795	4.87	890	7.07				
11784	361	0.42	419	0.77	506	1.37	611	2.23	699	3.20	777	4.24	834	5.31	927	7.62				
13748	422	0.67	466	1.04	529	1.60	618	2.44	706	3.46	784	4.56	854	5.74						
15712	482	1.01	522	1.42	572	1.98	625	2.65	713	3.73	791	4.89	861	6.13						
17676	542	1.43	578	1.90	616	2.42	666	3.17	720	4.01	797	5.23	868	6.53						
19640	602	1.97	635	2.48	665	3.00	709	3.76	753	4.59	804	5.58	875	6.94						
21604	662	2.62	692	3.18	720	3.75	753	4.43	795	5.36	834	6.26	881	7.36						
23568	723	3.40	750	4.01	776	4.64	801	5.25	839	6.18	877	7.19	911	8.18						
25532	783	4.32	809	4.98	833	5.66	856	6.33	883	7.11	920	8.19	954	9.29						
27496	843	5.39	867	6.11	890	6.83	912	7.56	933	8.28										
29460	903	6.64	926	7.40	947	8.17														

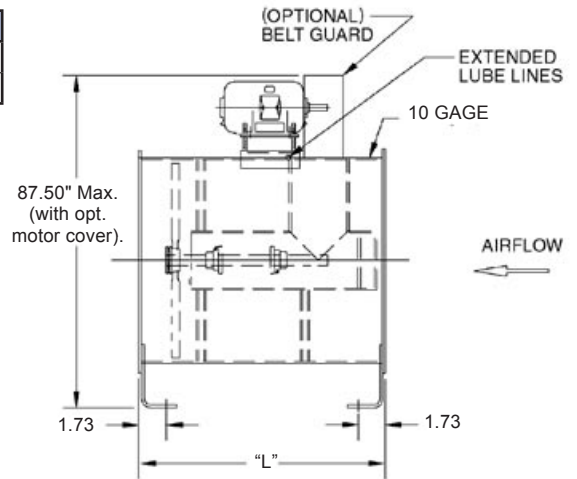
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

# 048

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	42.00	—
405	—	48.00



Prop Diameter = 48 in.
Max. RPM = 835
Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12830	264	0.32	329	0.75	437	1.61	529	2.66	599	3.82	650	5.04	696	6.36	778	9.23				
15396	316	0.56	367	1.01	443	1.79	535	2.92	612	4.17	680	5.54	729	6.94	811	9.96				
17962	369	0.88	408	1.35	463	2.09	541	3.18	618	4.52	686	5.96	747	7.49						
20528	422	1.32	457	1.86	501	2.59	547	3.46	624	4.87	692	6.39	753	8.00						
23094	474	1.87	506	2.48	539	3.16	583	4.15	630	5.24	698	6.84	759	8.53						
25660	527	2.57	556	3.24	582	3.92	621	4.92	659	6.00	704	7.30	765	9.06						
28226	580	3.42	606	4.16	630	4.90	659	5.79	696	7.00	730	8.18	771	9.62						
30792	632	4.44	657	5.24	679	6.06	701	6.87	734	8.08	767	9.40	798	10.70						
33358	685	5.65	708	6.51	729	7.40	749	8.28	773	9.29	805	10.70	835	12.10						
35924	738	7.05	759	7.98	779	8.93	798	9.89	816	10.80										
38490	791	8.67	810	9.67	829	10.70														

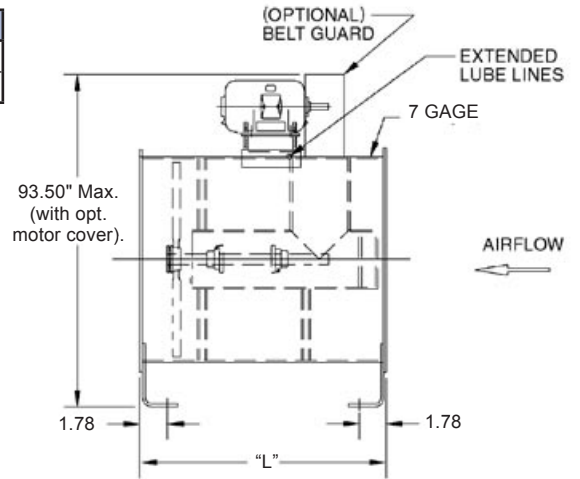
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 054

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 54 in.
Max. RPM = 743
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16240	234	0.41	293	0.95	389	2.03	470	3.37	532	4.83	578	6.38	619	8.05	692	11.70				
19488	281	0.70	326	1.28	394	2.26	475	3.69	544	5.28	605	7.01	648	8.78	721	12.60				
22736	328	1.12	363	1.71	412	2.64	481	4.03	549	5.72	610	7.54								
25984	375	1.67	406	2.35	445	3.28	486	4.38	555	6.17	615	8.09								
29232	422	2.37	450	3.14	479	4.00	518	5.25	560	6.63	620	8.65								
32400	469	3.25	494	4.10	517	4.96	552	6.23	586	7.60	626	9.23								
35728	515	4.33	539	5.26	560	6.21	586	7.33	619	8.86										
38976	562	5.62	584	6.64	604	7.68	623	8.69	652	10.20										
42224	609	7.15	629	8.25	648	9.36	666	10.50	687	11.80										
45472	656	8.93	675	10.10	692	11.30	709	12.50	726	13.70										
48720	703	11.00	720	12.20	737	13.50														

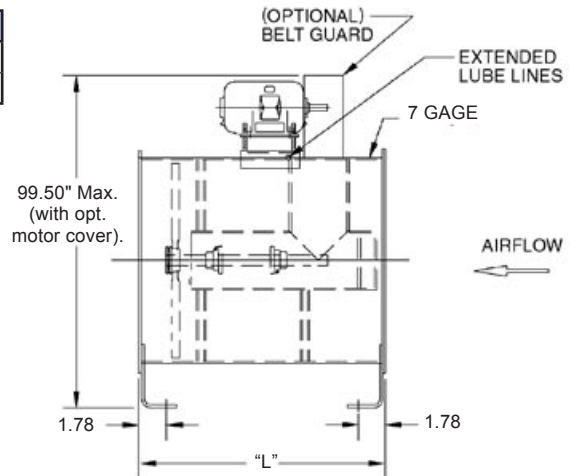
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-097 Tubeaxial Fan

## 060

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 60 in.
Max. RPM = 669
Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20050	211	0.50	262	1.17	350	2.51	423	4.16	479	5.97	520	7.88	557	9.93	623	14.40				
24060	253	0.87	294	1.58	355	2.79	428	4.56	490	6.52	544	8.65	584	10.80	649	15.60				
28070	295	1.38	327	2.12	371	3.27	433	4.98	494	7.06	549	9.31	598	11.70						
32080	337	2.06	365	2.90	401	4.05	437	5.41	499	7.62	553	9.99	603	12.50						
36090	380	2.93	405	3.88	431	4.94	467	6.48	504	8.19	558	10.70	607	13.30						
40100	422	4.02	445	5.07	466	6.12	497	7.69	527	9.38	563	11.40	612	14.20						
44110	464	5.35	485	6.50	504	7.67	527	9.05	557	10.90	584	12.80	617	15.00						
48120	506	6.94	525	8.19	543	9.48	561	10.70	587	12.60	614	14.70	638	16.70						
52130	548	8.83	566	10.20	583	11.60	599	12.90	618	14.50	644	16.70	668	19.00						
56140	590	11.00	607	12.50	623	14.00	638	15.50	653	16.90										
60150	633	13.60	648	15.10	663	16.70														

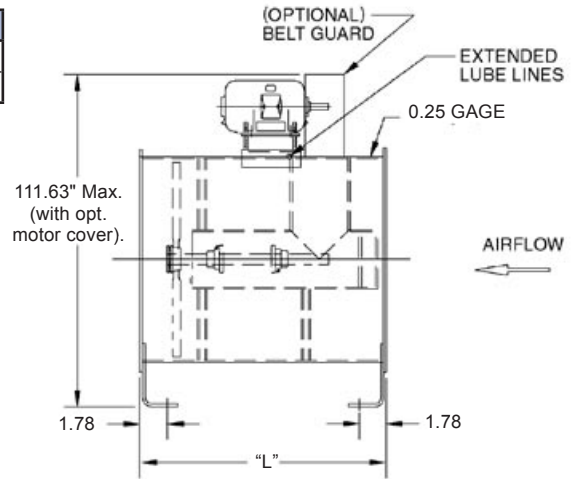
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-097

# 072

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 72 in.
Max. RPM = 424
Tip Speed, FPM = 18.85 x RPM
Inlet & Outlet Diameter (Area) = 72.75 in. (28.87 sq. ft.)

CFM	0" SP		1/8" SP		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28870	176	0.72	220	1.69	291	3.61	353	5.99	399	8.59										
34644	211	1.25	245	2.27	295	4.02	356	6.57	408	9.39										
40418	246	1.98	272	3.05	309	4.70	360	7.17	412	10.20										
46192	281	2.96	304	4.18	334	5.83	364	7.79	416	11.00										
51966	316	4.22	337	5.58	359	7.12	389	9.33	420	11.80										
57740	351	5.78	370	7.29	388	8.82	414	11.10	439	13.50										
63514	387	7.70	404	9.35	420	11.00	439	13.00	464	15.80										
69288	422	10.00	438	11.80	453	13.60	467	15.50	489	18.20										

- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

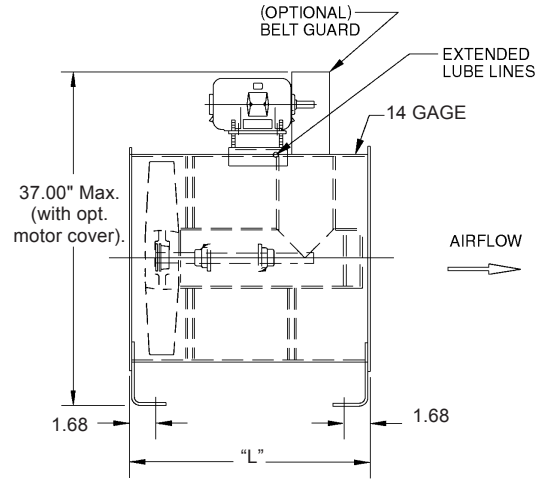


# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 012

Max. Mtr. Fr.	"L" Design 1
184	24.00



Prop Diameter = 12 in.
Max. RPM = 5732
Tip Speed, FPM = 3.14 x RPM
Inlet & Outlet Diameter (Area) = 12.19 in. (0.81 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
972	1339	0.03	1743	0.09														
1134	1562	0.04	1896	0.11														
1296	1786	0.06	2077	0.13	2408	0.23												
1458	2009	0.09	2272	0.16	2535	0.26	2928	0.42										
1620	2232	0.12	2474	0.21	2699	0.30	2970	0.43										
1782	2455	0.16	2678	0.26	2878	0.35	3102	0.48	3379	0.64								
1944	2678	0.21	2885	0.31	3070	0.41	3264	0.54	3486	0.68	3759	0.89						
2106	2901	0.27	3093	0.38	3268	0.49	3436	0.61	3629	0.76	3844	0.92	4124	1.18				
2268	3125	0.34	3304	0.45	3470	0.57	3626	0.69	3793	0.84	3977	1.01	4186	1.20				
2430	3348	0.41	3515	0.53	3673	0.67	3819	0.79	3965	0.94	4133	1.11	4311	1.29	4763	1.81		
2592	3571	0.50	3728	0.63	3879	0.77	4018	0.91	4155	1.05	4298	1.21	4457	1.40	4816	1.84		
2754	3794	0.60	3942	0.73	4086	0.88	4220	1.03	4347	1.17	4476	1.34	4621	1.53	4934	1.94	5318	2.51
2916	4017	0.71	4157	0.85	4294	1.01	4423	1.17	4545	1.32	4666	1.48	4787	1.66	5071	2.08	5396	2.58
3078	4241	0.84	4373	0.98	4504	1.15	4628	1.32	4745	1.48	4858	1.64	4975	1.82	5232	2.24	5516	2.71
3240	4464	0.98	4590	1.13	4714	1.30	4834	1.45	4948	1.66	5056	1.82	5166	2.00	5397	2.41	5652	2.89
3402	4687	1.13	4808	1.29	4926	1.47	5041	1.66	5151	1.85	5257	2.02	5358	2.19	5567	2.60		
3564	4910	1.30	5026	1.47	5139	1.65	5250	1.85	5356	2.04	5458	2.23	5557	2.41				
3726	5133	1.49	5244	1.66	5352	1.85	5459	2.05	5562	2.26	5662	2.46						
3888	5357	1.69	5463	1.87	5566	2.06	5670	2.27										
4050	5880	1.91	5682	2.10														

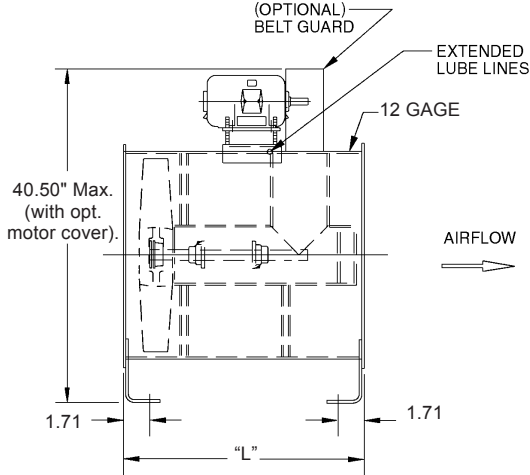
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 015

<b>Max. Mtr. Fr.</b>	<b>"L" Design 1</b>
184	24.00



Prop Diameter = 15 in.
Max. RPM = 4585
Tip Speed, FPM = 3.93 x RPM
Inlet & Outlet Diameter (Area) = 15.19 in. (1.26 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1510	1065	0.04	1391	0.13														
1761	1242	0.06	1512	0.16														
2013	1420	0.10	1655	0.20	1922	0.36												
2264	1597	0.14	1809	0.25	2022	0.40	2345	0.67										
2516	1775	0.19	1969	0.32	2151	0.47	2371	0.67										
2768	1952	0.25	2132	0.39	2292	0.54	2474	0.74	2700	1.00								
3019	2130	0.32	2296	0.48	2444	0.64	2602	0.83	2781	1.06	3009	1.39						
3271	2307	0.41	2462	0.58	2602	0.75	2737	0.94	2893	1.17	3069	1.44	3303	1.85				
3522	2485	0.52	2629	0.69	2762	0.88	2888	1.07	3023	1.30	3172	1.56	3341	1.87				
3774	2662	0.63	2797	0.82	2924	1.03	3041	1.22	3159	1.45	3295	1.71	3439	2.00	3815	2.85		
4026	2840	0.77	2966	0.96	3087	1.19	3199	1.40	3309	1.62	3426	1.88	3553	2.17	3845	2.87		
4277	3017	0.92	3136	1.13	3252	1.36	3359	1.59	3462	1.81	3566	2.07	3683	2.36	3936	3.01	4253	3.93
4529	3195	1.10	3307	1.31	3417	1.56	3521	1.81	3618	2.04	3717	2.29	3815	2.57	4045	3.23	4308	4.02
4780	3372	1.29	3479	1.51	3584	1.77	3683	2.04	3778	2.28	3869	2.53	3963	2.82	4171	3.47	4400	4.20
5032	3550	1.50	3651	1.74	3751	2.00	3847	2.28	3939	2.55	4026	2.81	4114	3.09	4302	3.74	4508	4.48
5284	3727	1.74	3824	1.98	3919	2.26	4012	2.55	4100	2.85	4185	3.11	4267	3.39	4435	4.02		
5535	3904	2.00	3997	2.26	4088	2.54	4178	2.84	4263	3.15	4345	3.44	4425	3.72				
5787	4082	2.28	4171	2.55	4258	2.84	4344	3.16	4427	3.48	4507	3.80	4584	4.09				
6038	4259	2.60	4345	2.88	4428	3.17	4511	3.50										
6290	4437	2.93	4519	3.23														

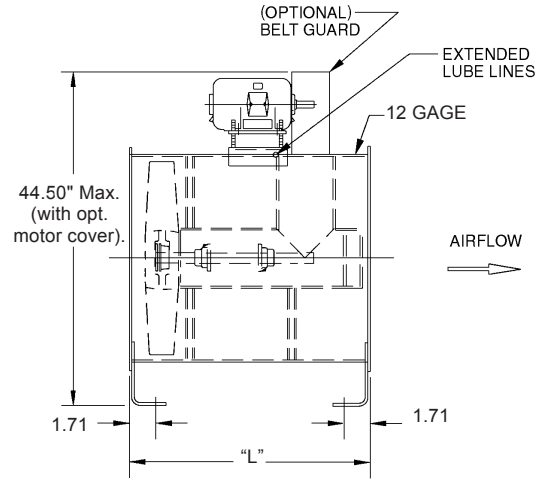
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 018

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 18 in.
Max. RPM = 3821
Tip Speed, FPM = 4.71 x RPM
Inlet & Outlet Diameter (Area) = 18.19 in. (1.80 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2160	882	0.06	1155	0.19														
2520	1029	0.09	1255	0.23														
2880	1176	0.14	1372	0.29	1595	0.51												
3240	1323	0.19	1500	0.36	1680	0.58	1958	0.97										
3600	1470	0.27	1633	0.45	1785	0.67	1972	0.96										
3960	1617	0.35	1767	0.56	1902	0.74	2056	1.06	2247	1.44								
4320	1763	0.46	1903	0.68	2027	0.91	2160	1.19	2311	1.52	2510	2.01						
4680	1910	0.58	2040	0.82	2157	1.07	2270	1.34	2402	1.68	2551	2.06	2756	2.68				
5040	2057	0.73	2178	0.98	2290	1.25	2395	1.53	2510	1.86	2636	2.23	2778	2.69				
5400	2204	0.90	2317	1.16	2424	1.46	2521	1.74	2620	2.06	2735	2.45	2857	2.86	3183	4.12		
5760	2351	1.09	2457	1.37	2559	1.68	2652	1.98	2745	2.31	2844	2.68	2950	3.10	3197	4.11		
6120	2498	1.30	2598	1.60	2695	1.93	2785	2.26	2871	2.58	2958	2.95	3058	3.37	3271	4.30	3549	5.69
6480	2645	1.55	2740	1.85	2832	2.21	2919	2.56	3000	2.89	3083	3.26	3167	3.66	3360	4.61	3582	5.77
6840	2792	1.82	2882	2.14	2970	2.51	3053	2.89	3132	3.24	3209	3.60	3287	4.01	3463	4.96	3656	6.00
7200	2939	2.12	3024	2.46	3108	2.64	3189	3.24	3265	3.63	3338	3.99	3412	4.40	3571	5.33	3745	6.40
7560	3086	2.46	3167	2.81	3247	3.20	3325	3.62	3399	4.04	3470	4.42	3539	4.82	3680	5.73		
7920	3233	2.82	3311	3.19	3387	3.60	3462	4.03	3534	4.48	3602	4.89	3669	5.29	3803	6.21		
8280	3380	3.23	3455	3.61	3528	4.03	3600	4.48	3669	4.94	3736	5.39	3800	5.81				
8640	3527	3.67	3599	4.07	3669	4.50	3738	4.96	3805	5.44								
9000	3674	4.15	3743	4.56	3810	5.00												

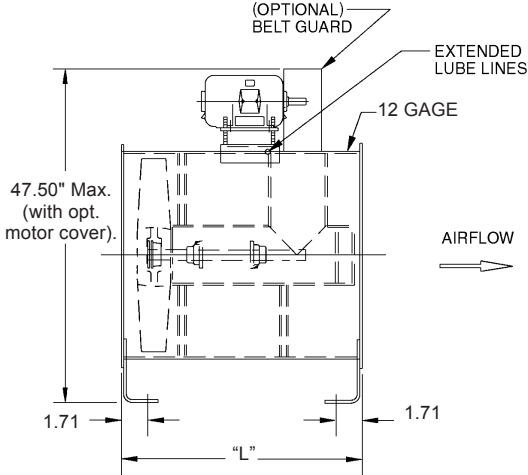
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 021

Max. Mtr. Fr.	"L" Design 1
215	28.00



Prop Diameter = 21 in.
Max. RPM = 3275
Tip Speed, FPM = 5.50 x RPM
Inlet & Outlet Diameter (Area) = 21.21 in. (2.45 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2952	759	0.08	992	0.26														
3444	885	0.13	1078	0.32														
3936	1012	0.19	1180	0.40	1372	0.70												
4428	1138	0.27	1290	0.50	1443	0.79	1676	1.31										
4920	1265	0.37	1404	0.62	1534	0.91	1692	1.30										
5412	1391	0.49	1520	0.77	1635	1.06	1765	1.45	1928	1.96								
5904	1518	0.63	1637	0.93	1743	1.25	1856	1.63	1984	2.07	2150	2.73						
6396	1644	0.80	1755	1.13	1855	1.47	1952	1.84	2064	2.29	2190	2.82	2360	3.63				
6888	1771	1.00	1874	1.35	1969	1.72	2059	2.09	2156	2.54	2264	3.05	2385	3.67				
7380	1897	1.23	1994	1.60	2085	2.01	2168	2.38	2252	2.82	2350	3.35	2454	3.91	2726	5.59		
7872	2024	1.50	2114	1.88	2201	2.31	2281	2.72	2360	3.16	2443	3.67	2535	4.24	2744	5.61		
8364	2150	1.80	2235	2.20	2318	2.65	2395	3.10	2468	3.54	2543	4.04	2627	4.62	2809	5.88	3040	7.71
8856	2277	2.13	2357	2.55	2436	3.03	2510	3.52	2580	3.97	2650	4.47	2721	5.02	2886	6.31	3074	7.87
9348	2403	2.51	2479	2.94	2555	3.45	2626	3.97	2693	4.45	2759	4.94	2826	5.50	2975	6.79	3140	8.21
9840	2530	2.92	2602	3.38	2674	3.90	2743	4.45	2808	4.98	2870	5.48	2934	6.03	3068	7.30	3217	8.75
10332	2656	3.39	2725	3.87	2794	4.40	2860	4.97	2923	5.55	2984	6.07	3043	6.61	3163	7.85		
10824	2782	3.89	2849	4.40	2914	4.94	2978	5.54	3039	6.15	3098	6.71	3155	7.26	3270	8.51		
11316	2909	4.45	2973	4.97	3035	5.54	3097	6.16	3156	6.79	3213	7.41	3268	7.98				
11808	3035	5.05	3097	5.60	3156	6.18	3216	6.83	3273	7.48								
12300	3162	5.71	3221	6.28	3278	6.88												

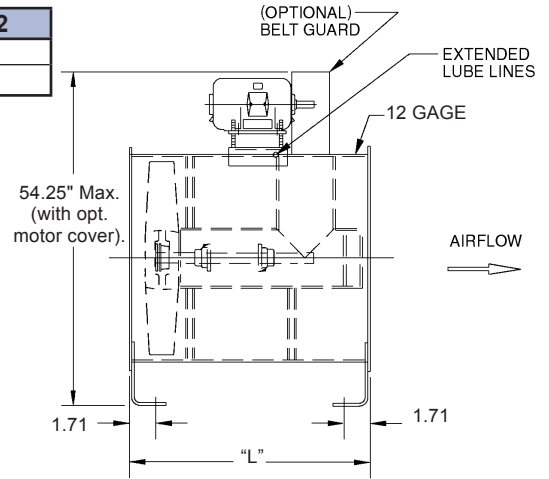
**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.  
 3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 024

Max. Mtr. Fr.	"L" Design 1	Design 2
215	28.00	—
286	—	32.00



Prop Diameter = 24 in.
Max. RPM = 2865
Tip Speed, FPM = 6.28 x RPM
Inlet & Outlet Diameter (Area) = 24.25 in. (3.21 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3852	663	0.10	868	0.34														
4494	774	0.16	943	0.41														
5136	884	0.24	1032	0.52	1200	0.92												
5778	995	0.35	1128	0.65	1267	1.03	1467	1.71										
6420	1106	0.48	1228	0.81	1347	1.19	1480	1.70										
7062	1216	0.63	1329	1.00	1429	1.39	1544	1.89	1686	2.56								
7704	1327	0.82	1431	1.22	1524	1.63	1623	2.12	1736	2.71	1882	3.57						
8346	1437	1.05	1534	1.47	1622	1.91	1707	2.39	1805	2.99	1916	3.68	2066	4.74				
8988	1548	1.31	1638	1.76	1722	2.74	1800	2.73	1886	3.32	1980	3.98	2086	4.78				
9630	1658	1.61	1743	2.08	1823	2.62	1896	3.11	1970	3.68	2055	4.37	2146	5.10	2386	7.31		
10272	1769	1.95	1848	2.45	1924	3.02	1934	3.55	2063	4.13	2137	4.79	2217	5.53	2400	7.32		
10914	1880	2.34	1954	2.86	2026	3.48	2094	4.05	2158	4.61	2223	5.27	2298	6.02	2456	7.67	2660	10.10
11556	1990	2.78	2061	3.32	2130	3.95	2195	4.59	2256	5.18	2317	5.83	2380	6.54	2524	8.23	2689	10.30
12198	2101	3.27	2168	3.83	2233	4.49	2296	5.17	2355	5.80	2412	6.44	2471	7.17	2602	8.85	2746	10.70
12840	2211	3.81	2275	4.41	2338	5.09	2398	5.80	2455	6.49	2510	7.14	2565	7.87	2683	9.52	2813	11.40
13481	2322	4.41	2383	5.04	2442	5.74	2500	6.48	2556	7.23	2609	7.91	2660	8.62	2766	10.20		
14124	2432	5.07	2491	5.73	2548	6.45	2604	7.22	2657	8.01	2709	8.75	2758	9.47	2859	11.10		
14766	2543	5.79	2599	6.48	2653	7.22	2707	8.03	2759	8.85	2809	9.65	2857	10.40				
15408	2653	6.58	2707	7.30	2759	8.06	2811	8.89	2862	9.75								
16050	2764	7.44	2916	8.19	2866	8.96												

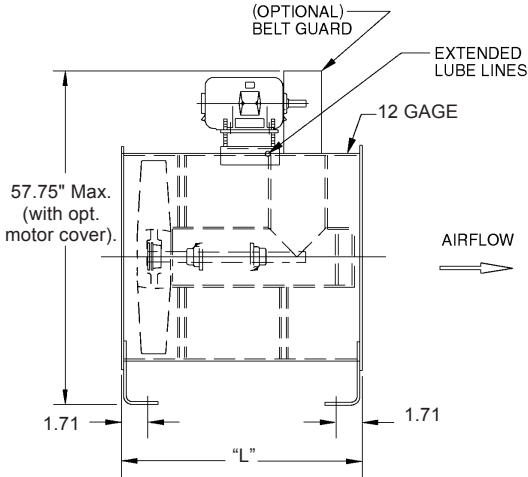
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 027

Max. Mtr. Fr.	"L" Design 1	Design 2
215	28.00	—
286	—	32.00



Prop Diameter = 27 in.
Max. RPM = 2546
Tip Speed, FPM = 7.07 x RPM
Inlet & Outlet Diameter (Area) = 27.28 in. (4.06 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4872	589	0.13	771	0.43														
5684	687	0.21	838	0.52														
6496	786	0.31	917	0.65	1066	1.16												
7308	884	0.44	1002	0.82	1121	1.30	1304	2.17										
8120	982	0.60	1091	1.03	1192	1.50	1316	2.15										
8932	1080	0.80	1180	1.27	1270	1.75	1372	2.38	1499	3.23								
9744	1179	1.04	1271	1.54	1354	2.06	1442	2.68	1542	3.42	1673	4.52						
10556	1277	1.32	1363	1.86	1441	2.42	1516	3.03	1604	3.78	1702	4.65	1836	6.01				
11368	1375	1.65	1455	2.22	1530	2.84	1600	3.43	1676	4.19	1759	5.04	1854	6.05				
12180	1473	2.03	1548	2.63	1619	3.31	1694	3.83	1750	4.65	1826	5.52	1907	6.44	2121	9.26		
12992	1571	2.46	1642	3.09	1709	3.81	1772	4.49	1833	5.22	1899	6.05	1970	7.00	2133	9.26	2461	14.50
13804	1670	2.95	1736	3.62	1800	4.37	1860	5.11	1917	5.83	1975	6.66	2041	7.61	2183	9.70	2365	12.80
14616	1768	3.51	1931	4.20	1992	4.99	1950	5.80	2004	6.54	2059	7.37	2114	8.27	2243	10.40	2390	13.00
15428	1866	4.12	1926	4.84	1984	5.68	2040	6.54	2092	7.34	2143	8.15	2195	9.07	2312	11.20	2440	13.50
16240	1964	4.81	2021	5.57	2077	6.43	2130	7.13	2181	8.20	2230	9.03	2279	9.94	2384	12.00	2500	14.40
17052	2062	5.57	2117	6.36	2170	7.25	2221	8.19	2271	9.14	2318	10.00	2364	10.90	2457	12.90		
17864	2161	6.40	2212	7.23	2263	8.15	2313	9.13	2361	10.00	2406	11.10	2450	12.00	2540	14.00		
18676	2259	7.32	2308	8.13	2357	9.12	2405	10.10	2451	11.20	2496	12.20	2539	13.10				
19488	2357	8.31	2405	9.22	2451	10.20	2498	11.20	2542	12.30								
20300	2455	9.40	2501	10.30	2546	11.30												

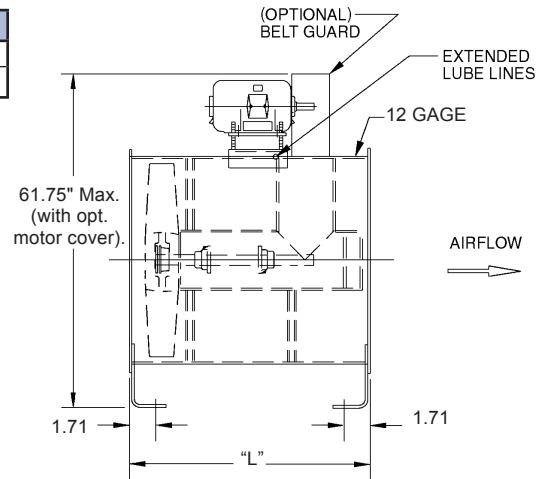
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

## 030

Max. Mtr. Fr.	"L" Design 1	Design 2
215	28.00	—
286	—	36.00



Prop Diameter = 30 in.
Max. RPM = 2292
Tip Speed, FPM = 7.85 x RPM
Inlet & Outlet Diameter (Area) = 30.31 in. (5.01 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6060	542	0.16	709	0.55														
7070	632	0.26	769	0.66														
8080	722	0.39	843	0.82	983	1.51												
9090	813	0.55	920	1.02	1030	1.65	1194	2.79										
10100	903	0.76	999	1.26	1094	1.88	1210	2.93										
11110	993	1.00	1082	1.56	1167	2.21	1261	3.02	1382	4.26								
12120	1084	1.30	1165	1.90	1244	2.58	1323	3.36	1418	4.40	1540	5.94						
13130	1174	1.66	1250	2.30	1322	3.01	1394	3.82	1473	4.77	1565	6.01	1687	7.84				
14140	1264	2.07	1334	2.75	1402	3.49	1470	4.34	1538	5.25	1616	6.40	1707	7.87				
15150	1354	2.55	1420	3.27	1483	4.07	1547	4.92	1609	5.87	1675	6.92	1752	8.22	1949	12.04		
16160	1444	3.08	1506	3.86	1566	4.70	1626	5.58	1685	6.56	1744	7.60	1809	8.80	1966	12.10	2207	17.50
17170	1534	3.70	1593	4.52	1650	5.40	1705	6.30	1761	7.32	1816	8.39	1873	9.52	2007	12.28	2178	16.82
18180	1625	4.40	1680	5.26	1735	6.18	1786	7.13	1839	8.16	1892	9.25	3144	10.45	2061	12.74	2202	16.90
19190	1715	5.17	1767	6.06	1820	7.04	1869	8.05	1918	9.06	1968	10.22	2018	11.43	2121	13.48	2243	17.40
20200	1805	6.03	1855	6.97	1905	7.99	1952	9.05	1998	10.12	2047	11.29	2094	12.50	2189	14.34		
21210	1895	6.98	1943	7.97	1990	9.02	2036	10.12	2081	11.22	2125	12.40	2171	13.66	2260	15.42		
22220	1986	8.03	2031	9.07	2076	10.16	2120	11.27	2164	12.44	2205	13.68	2249	14.94				
23230	2076	9.17	2119	10.23	2163	11.39	2205	12.56	2246	13.78	2287	15.02						
24240	2166	10.40	2208	11.55	2219	13.14												
25250	2256	11.80																

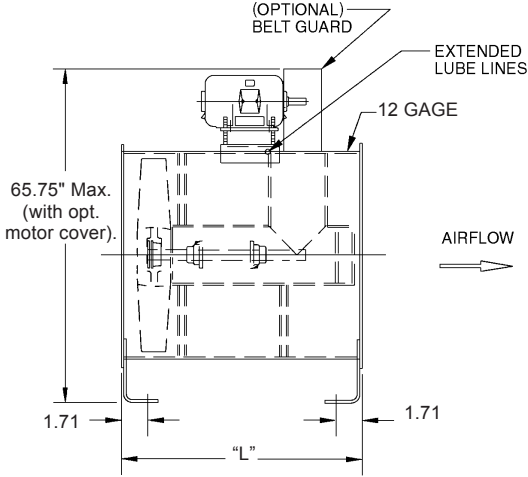
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 032

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
215	28.00	—
286	—	36.00



Prop Diameter = 32 in.
Max. RPM = 2149
Tip Speed, FPM = 8.38 x RPM
Inlet & Outlet Diameter (Area) = 32.33 in. (5.70 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6852	510	0.18	667	0.43														
7994	595	0.29	723	0.75														
9136	680	0.44	793	0.93	927	1.75												
10278	765	0.62	865	1.15	970	1.88	1120	3.20										
11420	850	0.86	938	1.42	1029	2.14	1140	3.21	1286	4.92								
12562	935	1.14	1016	1.75	1099	2.51	1187	3.44	1304	4.94	1435	6.87						
13704	1020	1.48	1095	2.14	1170	2.93	1244	3.81	1335	5.05	1452	6.89	1571	9.03				
14846	1105	1.88	1174	2.59	1243	3.40	1313	4.34	1386	5.43	1474	6.92	1588	9.06				
15988	1190	2.35	1254	3.11	1316	3.93	1384	4.93	1446	5.96	1521	7.30	1609	9.09	1816	13.90		
17130	1274	2.89	1335	3.70	1393	4.57	1455	5.58	1515	6.68	1575	7.85	1649	9.41	1834	13.90		
18272	1359	3.50	1416	4.37	1471	5.29	1528	6.31	1586	7.46	1641	8.63	1702	10.00	1855	14.00	2037	19.50
19414	1444	4.20	1497	5.12	1550	6.09	1601	7.10	1657	8.31	1710	9.55	1761	10.80	1889	14.30	2054	19.50
20556	1529	4.99	1579	5.96	1630	6.97	1677	8.02	1729	9.24	1781	10.50	1830	11.90	1940	15.00	2076	19.50
21698	1614	5.87	1661	6.88	1710	7.95	1755	9.05	1802	10.20	1852	11.60	1900	13.00	1994	15.90	2112	20.00
22840	1699	6.84	1744	7.91	1790	9.03	1834	10.20	1876	11.40	1925	12.80	1971	14.20	2059	17.10		
23982	1784	7.92	1827	9.04	1870	10.20	1913	11.40	1954	12.60	1997	14.00	2043	15.50	2128	18.60		
25124	1869	9.11	1910	10.30	1951	11.50	1992	12.70	2032	14.00	2071	15.40	2115	16.90				
26266	1954	10.40	1993	11.60	2033	12.90	2072	14.20	2110	15.50	2147	16.90						
27408	2039	11.80	2077	13.10	2114	14.40												
28550	2124	13.40																

**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.  
 3. Power rating (bhp) does not include drive losses.

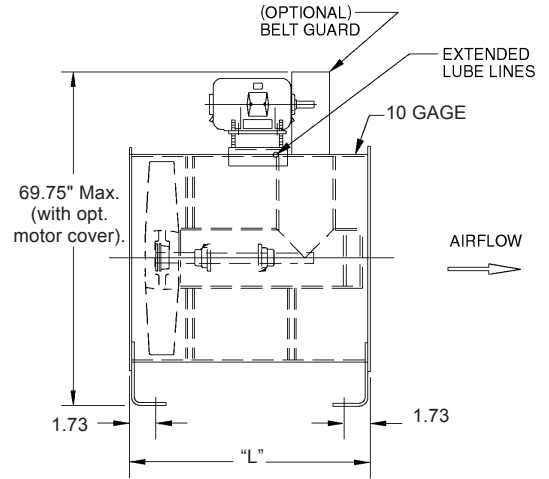


# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 036

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
256	36.11	—
326	—	42.00



Prop Diameter = 36 in.
Max. RPM = 1910
Tip Speed, FPM = 9.42 x RPM
Inlet & Outlet Diameter (Area) = 36.38 in. (7.22 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8664	453	0.23	593	0.80														
10108	528	0.37	642	0.94	807	2.20												
11552	604	0.55	704	1.18	824	2.21												
12996	679	0.79	768	1.46	862	2.38	995	4.05										
14440	755	1.08	833	1.79	915	2.71	1013	4.07	1143	6.23								
15884	830	1.44	902	2.21	976	3.17	1054	4.36	1159	6.25	1275	8.70						
17328	905	1.87	972	2.71	1040	3.70	1105	4.81	1186	6.39	1291	8.72	1396	11.40				
18772	981	2.37	1043	3.28	1104	4.30	1166	5.49	1232	6.87	1310	8.76	1412	11.50				
20216	1056	2.96	1114	3.93	1169	4.97	1229	6.23	1285	7.53	1351	9.24	1430	11.60	1614	17.60		
21660	1132	3.64	1185	4.68	1237	5.77	1293	7.05	1346	8.44	1400	9.93	1465	11.90	1630	17.60		
23104	1207	4.42	1257	5.52	1307	6.68	1357	7.97	1409	9.42	1458	10.90	1512	12.70	1648	17.70		
24548	1283	5.30	1330	6.46	1377	7.69	1422	8.97	1472	10.50	1519	12.10	1564	13.70	1679	18.10	1826	24.70
25992	1358	6.30	1402	7.52	1447	8.81	1490	10.10	1536	11.70	1582	13.30	1626	15.00	1723	19.00	1845	24.70
27436	1434	7.40	1476	8.69	1518	10.00	1559	11.40	1601	12.90	1645	14.70	1688	16.40	1772	20.10	1877	25.30
28880	1509	8.64	1549	9.99	1590	11.40	1629	12.90	1666	14.30	1709	16.10	1751	17.90	1829	21.70		
30324	1585	10.00	1623	11.40	1661	12.90	1699	14.40	1735	16.00	1774	17.70	1814	19.60	1890	23.50		
31768	1660	11.50	1696	13.00	1733	14.50	1769	16.10	1804	17.70	1839	19.40	1878	21.40				
33212	1735	13.10	1770	14.70	1805	16.30	1840	17.90	1874	19.60	1907	21.30						
34656	1811	14.90	1844	16.50	1878	18.20												
36100	1886	16.90																

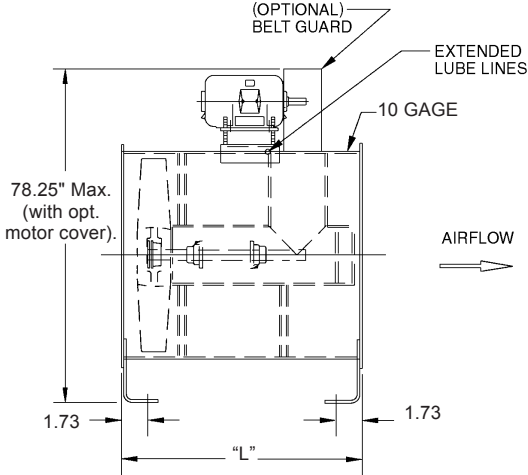
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 042

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	36.00	-
326	-	42.00



Prop Diameter = 42 in.
Max. RPM = 1637
Tip Speed, FPM = 11.00 x RPM
Inlet & Outlet Diameter (Area) = 42.44 in. (9.82 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11784	388	0.32	508	1.09														
13748	452	0.50	550	1.28	692	2.99												
15712	517	0.75	603	1.60	706	3.01												
17676	582	1.07	658	1.98	738	3.23	853	5.51										
19640	646	1.47	714	2.44	783	3.68	869	5.54	980	8.47								
21604	711	1.95	773	3.01	836	4.31	903	5.92	993	8.51	1093	11.80						
23568	776	2.53	833	3.68	891	5.03	947	6.54	1016	8.69	1106	11.90	1196	15.60				
25532	840	3.22	893	4.45	946	5.84	999	7.46	1055	9.34	1123	11.90	1210	15.60				
27496	905	4.02	954	5.34	1001	6.75	1053	8.47	1101	10.20	1158	12.60	1226	15.70	1383	24.00		
29460	969	4.95	1015	6.35	1060	7.84	1107	9.59	1153	11.50	1199	13.50	1255	16.20	1397	24.00		
31424	1034	6.01	1077	7.50	1119	9.07	1162	10.80	1207	12.80	1249	14.80	1296	17.20	1413	24.10	1551	33.50
33388	1099	7.20	1139	8.78	1179	10.40	1218	12.20	1261	14.30	1302	16.40	1340	18.60	1438	24.60	1565	33.60
35352	1163	8.55	1201	10.20	1240	12.00	1276	13.80	1316	15.90	1355	18.10	1393	20.40	1477	25.80	1581	33.70
37316	1228	10.10	1264	11.80	1301	13.60	1336	15.50	1371	17.60	1410	19.90	1446	22.30	1518	27.40	1608	34.40
39280	1293	11.70	1327	13.60	1362	15.50	1395	17.50	1427	19.50	1464	21.90	1500	24.40	1567	29.40		
41244	1357	13.60	1390	15.50	1423	17.50	1455	19.60	1486	21.70	1520	24.10	1554	26.60	1620	31.90		
43208	1422	15.60	1453	17.60	1485	19.70	1516	21.90	1546	24.10	1576	26.40	1609	29.00				
45172	1486	17.80	1516	19.90	1546	22.10	1576	24.40	1605	26.60	1634	29.00						
47136	1551	20.30	1580	22.50	1608	24.70												
49100	1616	22.90																

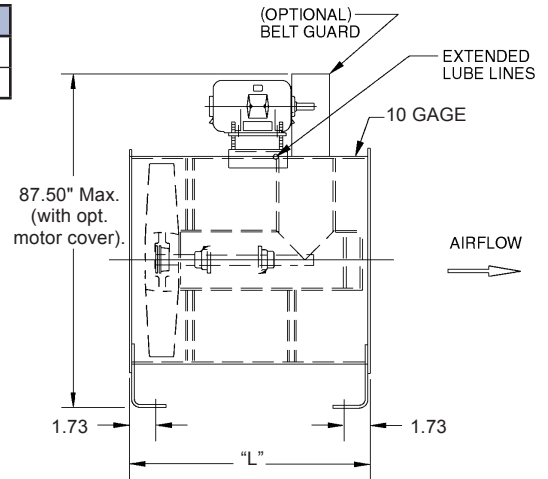
**Notes:** 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.  
 3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 048

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	42.00	—
405	—	48.00



Prop Diameter = 48 in.
Max. RPM = 1432
Tip Speed, FPM = 12.57 x RPM
Inlet & Outlet Diameter (Area) = 48.50 in. (12.83 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15396	339	0.41	445	1.42														
17962	396	0.66	482	1.67	605	3.91												
20528	453	0.98	528	2.09	618	3.93												
23094	509	1.40	576	2.59	646	4.22	746	7.20										
25660	566	1.92	625	3.18	686	4.81	760	7.23	857	11.10								
28226	622	2.55	676	3.93	732	5.64	790	7.74	869	11.10	956	15.50						
30792	679	3.31	729	4.81	779	6.57	828	8.55	889	11.40	968	15.50	1047	20.30				
33358	735	4.21	782	5.82	828	7.63	874	9.75	924	12.20	983	15.60	1059	20.40				
35924	792	5.26	835	6.98	876	8.82	921	11.10	963	13.40	1013	16.40	1073	20.40	1211	31.30		
38490	848	6.47	889	8.30	928	10.20	969	12.50	1009	15.00	1049	17.60	1099	21.20	1222	31.40		
41056	905	7.85	943	9.80	980	11.90	1017	14.10	1056	16.70	1093	19.40	1134	22.50	1236	31.50	1358	43.80
43622	962	9.42	997	11.50	1032	13.60	1066	15.90	1104	18.60	1139	21.40	1173	24.30	1259	32.20	1369	43.90
46188	1018	11.20	1051	13.30	1085	15.60	1117	18.00	1152	20.70	1186	23.60	1219	26.60	1292	33.80	1384	44.00
48754	1075	13.10	1106	15.40	1138	17.80	1169	20.30	1200	23.00	1234	26.00	1265	29.20	1328	35.70	1407	44.90
51320	1131	15.30	1161	17.70	1192	20.20	1221	22.80	1249	25.50	1282	28.60	1313	31.90	1371	38.50		
53886	1188	17.80	1216	20.30	1245	22.90	1274	25.60	1301	28.30	1330	31.40	1360	34.80	1417	41.70		
56452	1244	20.40	1272	23.00	1299	25.80	1327	28.60	1353	31.50	1379	34.40	1408	37.90				
59018	1301	23.30	1327	26.10	1353	28.90	1380	31.80	1405	34.80	1430	37.80						
61584	1358	26.50	1383	29.40	1408	32.30												
64150	1414	29.90																

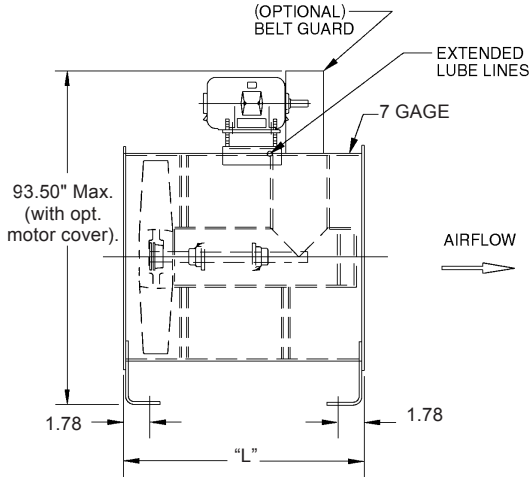
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 054

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	-
405	-	54.00



Prop Diameter = 54 in.
Max. RPM = 1273
Tip Speed, FPM = 14.14 x RPM
Inlet & Outlet Diameter (Area) = 54.56 in. (16.24 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19488	302	0.52	395	1.80														
22736	352	0.83	428	2.12	538	4.95												
25984	402	1.24	469	2.65	549	4.98												
29232	453	1.77	512	3.28	574	5.34	663	9.11										
32480	503	2.43	555	4.03	610	6.09	676	9.15	762	14.00								
35728	553	3.23	601	4.98	651	7.14	703	9.80	773	14.10	850	19.60						
38976	603	4.19	648	6.08	693	8.32	736	10.80	791	14.40	860	19.60	931	25.70				
42224	654	5.33	695	7.37	736	9.66	777	12.30	821	15.40	873	19.70	941	25.80				
45472	704	6.66	742	8.84	779	11.20	819	14.00	856	16.90	901	20.80	953	25.90	1076	39.60		
48720	754	8.19	790	10.50	825	13.00	862	15.90	897	19.00	933	22.30	977	26.80	1087	39.70		
51968	805	9.94	838	12.40	871	15.00	904	17.90	939	21.20	971	24.50	1008	28.50	1099	39.80	1207	55.40
55216	855	11.90	886	14.50	918	17.30	948	20.20	981	23.60	1013	27.10	1043	30.70	1119	40.70	1217	55.50
58464	905	14.20	935	16.90	965	19.80	993	22.80	1024	26.20	1054	29.90	1084	33.70	1149	42.70	1230	55.70
61712	955	16.60	983	19.50	1012	22.60	1039	25.70	1067	29.10	1097	33.00	1125	36.90	1181	45.30	1251	56.90
64960	1006	19.40	1032	22.50	1059	25.60	1086	28.90	1111	32.20	1139	36.20	1167	40.30	1219	48.70		
68208	1056	22.50	1081	25.70	1107	29.00	1132	32.40	1156	35.90	1182	39.80	1209	44.00	1260	52.80		
71456	1106	25.80	1131	29.20	1155	32.60	1179	36.20	1203	39.80	1226	43.60	1252	48.00				
74704	1157	29.50	1180	33.00	1203	36.60	1227	40.30	1249	44.10	1271	47.90						
71952	1207	33.50	1229	37.20	1251	40.90												
81200	1257	57.90																

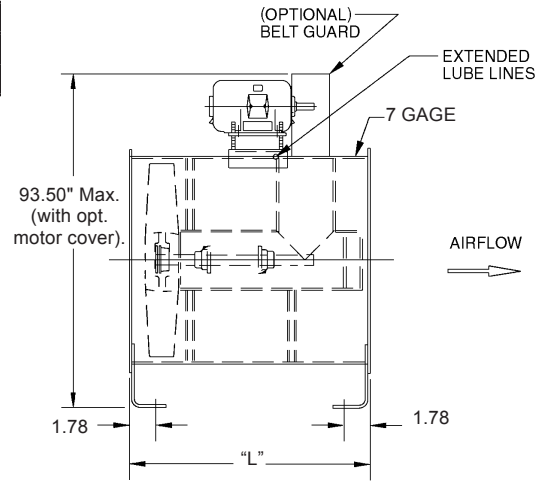
Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.  
 3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

TXB-098 Tubeaxial Fan

# 060

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	-
405	-	54.00



Prop Diameter = 60 in.
Max. RPM = 1145
Tip Speed, FPM = 15.71 x RPM
Inlet & Outlet Diameter (Area) = 60.63 in. (20.05 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24060	272	0.65	356	2.22														
28070	317	1.03	385	2.62	484	6.11												
32080	362	1.53	423	3.27	494	6.14												
36090	407	2.18	461	4.05	517	6.60	597	11.20										
40100	453	3.00	500	4.98	549	7.52	608	11.30	686	17.30								
44110	498	3.99	541	6.14	586	8.81	632	12.10	695	17.40	765	24.20						
48120	543	5.18	583	7.51	624	10.30	663	13.40	712	17.70	774	24.20	838	31.70				
52130	588	6.58	625	9.10	662	11.90	700	15.20	739	19.10	786	24.30	847	31.80				
56140	634	8.22	668	10.90	701	13.80	737	17.30	771	20.90	811	25.70	858	31.90	968	48.90		
60150	679	10.10	711	13.00	742	16.00	775	19.60	807	23.40	840	27.60	879	33.10	978	49.00		
64160	724	12.30	754	15.30	784	18.50	814	22.10	845	26.20	874	30.30	907	35.20	989	49.20	1086	68.40
68170	769	14.70	798	17.90	826	21.30	853	24.90	883	29.10	911	33.50	938	37.90	1007	50.20	1096	68.50
72180	815	17.50	841	20.90	868	24.40	894	28.10	922	32.40	949	37.00	975	41.60	1034	52.80	1107	68.70
76190	860	20.60	885	24.10	911	27.90	935	31.70	960	35.90	987	40.70	1013	45.50	1063	55.90	1126	70.20
80200	905	24.00	929	27.70	954	31.70	977	35.70	1000	39.80	1025	44.80	1050	49.80	1097	60.10		
84210	950	27.70	973	31.70	996	35.80	1019	40.00	1041	44.30	1064	49.10	1088	54.40	1134	65.20		
88220	996	31.90	1018	36.00	1040	40.30	1061	44.70	1082	49.20	1103	53.80	1127	59.30				
92230	1041	36.50	1062	40.80	1083	45.20	1104	49.80	1124	54.40	1144	59.10						
96240	1086	41.40	1106	45.90	1126	50.50												
100250	1131	46.80																

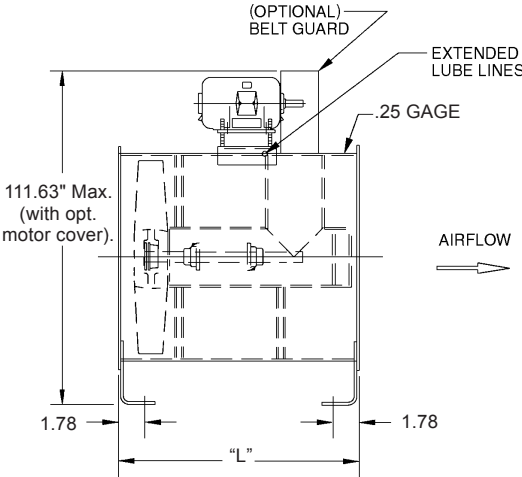
- Notes:**
1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.
  2. Performance ratings do not include the effects of appurtenances in the airstream.
  3. Power rating (bhp) does not include drive losses.

# Belt Drive Fan Data

Tubeaxial Fan TXB-098

# 072

Max. Mtr. Fr.	"L" Design 1	"L" Design 2
286	48.00	—
405	—	54.00



Prop Diameter = 72 in.
Max. RPM = 995
Tip Speed, FPM = 18.85 x RPM
Inlet & Outlet Diameter (Area) = 72.75 in. (28.87 sq. ft.)

CFM	0" SP		1/4" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34644	226	0.93	297	3.19														
40418	264	1.48	321	3.77	404	8.80												
46192	302	2.21	352	4.71	412	8.85												
51966	339	3.14	384	5.83	431	9.50	498	16.20										
57740	377	4.31	416	7.16	457	10.80	507	16.30	571	24.90								
63514	415	5.74	451	8.85	488	12.70	527	17.40	580	25.00	637	34.80						
69288	453	7.45	486	10.80	520	14.80	552	19.20	593	25.50	645	34.90	698	45.70				
75062	490	9.48	521	13.10	552	17.20	583	21.90	616	27.50	655	35.00	706	45.90				
80836	528	11.80	557	15.70	584	19.90	614	24.90	642	30.10	676	36.90	715	46.00	807	70.40		
86610	566	14.60	593	18.70	619	23.10	646	28.20	673	33.70	700	39.70	732	47.60	815	70.40		
92384	603	17.70	629	22.10	653	26.70	678	31.80	704	37.70	729	43.60	756	50.70	824	70.80	905	98.50
98158	641	21.20	665	25.80	688	30.70	711	35.90	736	42.00	759	48.20	782	54.60	839	72.30	913	98.70
103932	679	25.20	701	30.00	723	35.20	745	40.50	768	46.60	791	53.20	813	59.90	861	76.00	922	99.00
109706	717	29.60	738	34.70	759	40.10	779	45.70	800	51.80	822	58.60	844	65.62	886	80.40	938	101.00
115480	754	34.50	774	40.78	795	45.60	814	51.40	833	57.30	855	64.40	875	71.50	914	86.60		
121254	792	40.00	811	45.60	830	51.50	849	57.60	867	63.80	887	70.70	907	78.30	945	93.80		
127028	830	45.90	848	51.90	866	58.00	884	64.30	902	70.80	919	77.50	939	85.40				
132802	867	52.50	885	58.70	902	65.10	920	71.70	937	78.50	953	85.20						
138576	905	59.60	922	66.10	939	72.70												
144350	943	67.40																

Notes: 1. Performance shown is for Installation Type D: ducted inlet, ducted outlet.  
 2. Performance ratings do not include the effects of appurtenances in the airstream.  
 3. Power rating (bhp) does not include drive losses.

# Sample Specification

## TXD, TXB - Tubeaxial Fans

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- 1.1 Fans shall be tested and rated in accordance with AMCA air and sound methods and standards.
- 1.2 Fans shall conform to AMCA 99 Standards.
- 1.3 All motors and electrical components shall comply with NEMA, UL or other governing body.

### Direct Drive

#### Product

- 2.1 Fan shall be of an axial flow tubeaxial type configuration.
- 2.2 Fan shall be direct drive with the propeller mounted on the motor shaft by means of a taperlock bushing.
- 2.3 Fan casing shall be of all welded construction with a flanged inlet and outlet, and shall be constructed completely of carbon steel, stainless steel (type 316 or 304) or aluminum as indicated on fan schedule.
- 2.4 The 091 propeller shall be constructed of six cast aluminum blades fastened directly to a cast aluminum hub assembly. The 097 propeller shall be constructed of six steel sheet metal blades fastened directly to a steel hub assembly. The 098 propeller shall be constructed of seven cast aluminum blades welded to a cast aluminum hub assembly per AWS welding standards. All hubs are designed to incorporate a taper lockbushing and are keyed to the motor shaft.
- 2.5 Fan shall be coated with enamel as standard or optional other available coating as made available by coating suppliers and as indicated on the fan schedule.
- 2.6 The motor shall be of a typical NEMA -T frame type and standard in nature with the motor industry availability. The electric motor shall be as indicated on the fan schedule and is available in any enclosure as made available from the motor vendors.
- 2.7 The motor leads shall be extended through the fan casing for accessibility.
- 2.8 The final complete fan assembly shall be vibration tested and mechanically balanced as per AMCA 204 Grade BV-3 / ANSI S2.19 G 6.3 and the results recorded on a label placed on the fan assembly.

#### Accessories

- 3.1 The fan shall have a sealed access door with quick opening latches when indicated on the fan schedule.
- 3.2 The fan shall be of a fixed, reversed airflow configuration.
- 3.3 The 013-091 fan shall be of a reversible airflow configuration for supply or exhaust.

### Belt Drive

#### Product

- 2.1 Fan shall be of an axial flow tubeaxial type configuration.
- 2.2 Fan shall be belt driven, sized for 1.5 service factor. Motor is mounted externally on the fan casing and not exposed to the air stream.
- 2.3 Fan casing shall be of all welded construction with a flanged inlet and outlet, and shall be constructed completely of carbon steel, stainless steel (type 316 or 304) or aluminum as indicated on fan schedule.
- 2.3.1 The fan shall have an inner tube section, fully welded protecting the shaft, bearings and drive components from direct air stream exposure.
- 2.3.2 The inner tube assembly shall have removable end covers to allow for access to the bearing and drive assembly
- 2.4 Fan shaft shall be steel, ground for precision fit to bearings and keyed for driving the impeller and drive sheave. Shafting sized such that the first critical speed is 125% of fan maximum speed.
- 2.5 Fan bearings shall be cast iron housing, self-aligning, relubricable bearings with grease lines extended to the exterior of the casing. A.F.B.M.A. Bearing L-10 life of 40,000 hours.
- 2.6 The 091 propeller shall be constructed of six cast aluminum blades fastened directly to a cast aluminum hub assembly. The 097 propeller shall be constructed of six steel sheet metal blades fastened directly to a steel hub assembly. The 098 propeller shall be constructed of seven cast aluminum blades welded to a cast aluminum hub assembly per AWS welding standards. All hubs are designed to incorporate a taper lock bushing and are keyed directly to the fan shaft.
- 2.7 The motor mounting base is configured to allow for various frame sizes and designed to allow for belt tension adjustment.
- 2.8 Fan shall be coated with enamel as standard or optional other available coating as made available by coating suppliers and as indicated on the fan schedule.
- 2.9 Fan shall be of AMCA spark resistant construction when required and as indicated on the fan schedule as AMCA "A", "B" or "C" as defined by AMCA Standard 99.
- 2.10 The motor shall be of a typical NEMA -T frame type and standard in nature with the motor industry availability. The electric motor shall be as indicated on the fan schedule and is available in any enclosure as made available from the motor vendors.
- 2.11 The final complete fan assembly shall be vibration tested and mechanically balanced as per AMCA 204 Grade BV-3 / ANSI S2.19 G 6.3 and the results recorded on a label placed on the fan assembly.

#### Accessories

- 3.1 The fan shall have a belt guard to protect the exposed belts and drive components or a weather motor and drive cover as indicated on the fan schedule.
- 3.2 The fan shall have a sealed inspection door with quick opening latches when indicated on the fan schedule.
- 3.3 The fan shall be of a fixed, reversed airflow configuration.
- 3.4 The TXB-091 fan shall be of a reversible airflow configuration for supply or exhaust (aluminum propeller only).

# One Year Limited Warranty

TXD, TXB Tubeaxial Fans

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## What Products Are Covered

PennBarry Commercial and Industrial Fans (each, a “PennBarry Product”)

## One Year Limited Warranty For PennBarry Products

PennBarry warrants to the original commercial purchaser that the PennBarry Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

## Exclusive Remedy

PennBarry will, at its option, repair or replace (without removal or installation) the affected components of any defective PennBarry Product; repair or replace (without removal or installation) the entire defective PennBarry Product; or refund the invoiced price of the PennBarry Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

## What You Must Do

In order to make a claim under these warranties:

1. You must be the original commercial purchaser of the PennBarry Product.
2. You must promptly notify us within the warranty period of any defect and provide us with any substantiation that we may reasonably request.
3. The PennBarry Product must have been installed and maintained in accordance with good industry practice and any specific PennBarry recommendations.

## Exclusions

These warranties do not cover defects caused by:

1. Improper design or operation of the system into which the PennBarry Product is incorporated.
2. Improper installation.
3. Accident, abuse or misuse.
4. Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by PennBarry, misapplication and operation in excess of stated performance characteristics).
5. Components not manufactured by PennBarry.

## Limitations

1. In all cases, PennBarry reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoiced price of the defective PennBarry Product (or, if the PennBarry Product has been discontinued, of the most nearly comparable current product).
2. PennBarry reserves the right to furnish a substitute or replacement component or product in the event a PennBarry Product or any component of the product is discontinued or otherwise unavailable.
3. PennBarry’s only obligation with respect to components not manufactured by PennBarry shall be to pass through the warranty made by the manufacturer of the defective component.

## General

**The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose).**

**PennBarry hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.**

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of PennBarry with respect to the PennBarry Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoiced price charged by PennBarry to its customer for the affected PennBarry Product at the time the claim is made.

Inquiries regarding these warranties should be sent to: PennBarry, 1401 North Plano Road, Richardson, TX 75081.



# OTHER PENNBARRY PRODUCTS

## CENTRIFUGAL PRODUCTS



**Domex**  
Centrifugal  
Roof Exhausters



**Fumex Fatrap**  
Kitchen Hood Centrifugal  
Roof Exhausters



**Zephyr**  
Ceiling and Inline Fans



**Dynamo**  
Centrifugal Blowers



**Centrex Inliner**  
Centrifugal Inline Fans



**LC Dynafan**  
Low Contour Centrifugal  
Roof Exhausters

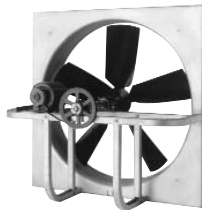


**ESI**  
Efficient Silent  
Inline Fan



**Fume Exhaust**  
Curb Mounted  
Centrifugal Fans

## AXIAL / GRAVITY PRODUCTS



**Breezeway**  
Propeller Wall Fans



**HI-EX**  
Power Roof Ventilator



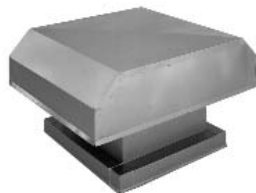
**Tubeaxial**  
Inline Fans



**Vaneaxial**  
Inline Fans



**Powered Airette**  
Axial Roof Ventilators



**Airette**  
Gravity Intake/Relief Hood



**Domex Axial**  
Axial Roof Ventilators



**Axcenrix**  
Bifurcator Fan

For more information contact your local PennBarry Sales  
Manufacturer Representative or visit us at [www.PennBarry.com](http://www.PennBarry.com)