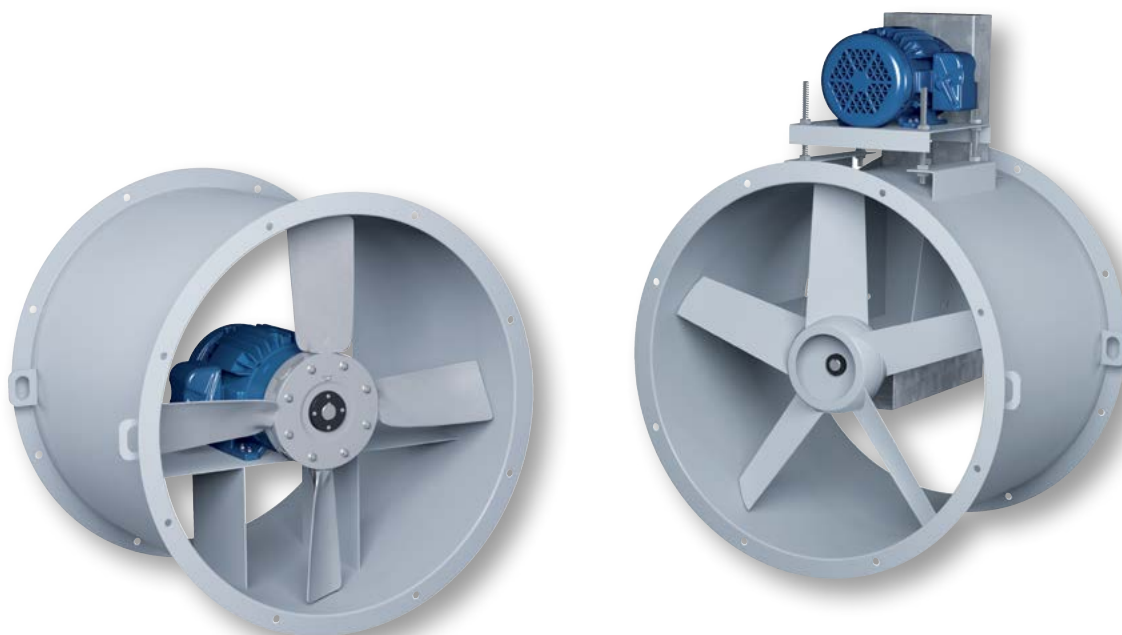


TURNING AIR INTO SOLUTIONS.

Fan & Blower

Twin City



TUBEAXIAL FANS

TD | TB | TBSH (Smoke & Heat)

CATALOG 4830
July 2015

TUBEAXIAL FANS

Overview

TD | TB | TBSH



Model TD Direct Drive
With "E" Die Cast Aluminum Propeller



Model TB Belt Driven
With "Z" Fabricated Steel Propeller

Twin City Fan & Blower TD and TB Tubeaxial Fans are specifically designed for cost effective, reliable air movement in commercial and light industrial ducted and non-ducted applications. Direct and belt drive models are available with cast aluminum or fabricated steel propellers to meet specific application requirements. The TBSH is designed to remove smoke from buildings in the event of fire. The TBSH is UL listed for Smoke Control Systems for 500°F (260°C) for 4 hours or 1000°F (537°C) for 15 minutes.

Construction Features

- Cast aluminum or fabricated steel propellers.
- Continuously welded, heavy-gauge, corrosion resistant, enamel coated steel housing.
- Heavy-gauge steel motor and bearing supports provide maximum strength with minimal resistance to airflow.
- Flanged housings with prepunched mounting holes can easily be connected to ductwork.
- Dynamically balanced propellers for quiet, vibration-free operation.
- Designed for continuous duty.
- Available with a wide variety of ODP, TEFC and explosion proof ball bearing motors.
- Extended lube lines are standard on Model TB fans.
- Externally mounted conduit box standard on Model TD fans.

Sizes

14" to 60" wheel diameters

Performance

Airflow to 82,600 CFM

Static pressure to 1.5" w.g.



All models are UL/cUL 705 listed, for electrical, File No. E158680.

Model TBSH is UL/cUL listed for Smoke Control Systems as standard, File No. E158680, 500°F for 4 hours and 1000°F for 15 minutes.



For complete product performance, drawings, and available accessories, Download Fan Selector at tcf.com.



Twin City Fan, a Twin City Fan Company certifies that the TD/TB/TBSH Series shown herein is licensed to bear the AMCA Seal. The Ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the AMCA Certified Ratings Program.

The AMCA Certified Ratings Seal applies to air and sound performance for Model TD Sizes 14E4, 14E8, 16E4, 16E8 and 18E4 on pages 8 through 11 and Model TB sizes 14E4, 14E8 and 16E8 on pages 20 through 22.

The AMCA Certified Ratings Seal applies to the Fan Efficiency Grade for Model TD Sizes 14B105, 16B105, 18B105, 18E8, 21B105, 21E4, 21E8, 24B105, 24E4, 24E8, 30B105, 30E4, 30E8, 36B206, 36E4, 36E8, 42B304, 42E4, 42E8, 48B304, 48E4 and 48E8 on pages 8 through 19 and Model TB Sizes 14B105, 16B105, 16E4, 18B105, 18E4, 18E8, 21B105, 21E4, 21E8, 24B105, 24E4, 24E8, 24Z5, 30B105, 30E4, 30E8, 30Z5, 36B206, 36E4, 36E8, 36Z5, 42B304, 42E4, 42E8, 42Z5, 48B304, 48E4, 48E8, 48Z5, 54B406, 54C3, 54C6, 54Z5, 60C3, 60C6 and 60Z6 on pages 20 through 40 and Model TBSH sizes 24Z5, 30Z5, 36Z5, 42Z5, 48Z5, 54Z5 and 60Z5 on pages 37 through 40.

Propellers

TD | TB | TBSH

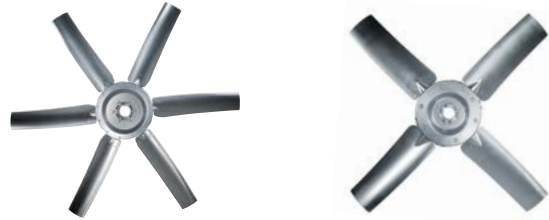
TD and TB tubeaxial fans are available with either fixed pitch fabricated steel (sizes 24 through 60) or adjustable pitch cast aluminum propellers (sizes 14 through 60). Each propeller type is designed for a wide variety of commercial and light industrial applications with static pressure capabilities from 0" to 1½". Regardless of the application requirement, TD and TB propellers offer the right choice.

FAN SIZE	DIRECT DRIVE	BELT DRIVEN
14	B, E	B, E
16	B, E	B, E
18	B, E	B, E
21	B, E	B, E
24	B, E	B, E, Z
30	B, E	B, E, Z
36	B, E	B, E, Z
42	B, E	B, E, Z
48	B, E	B, E, Z
54	—	B, C, Z
60	—	C, Z

Propeller Availability

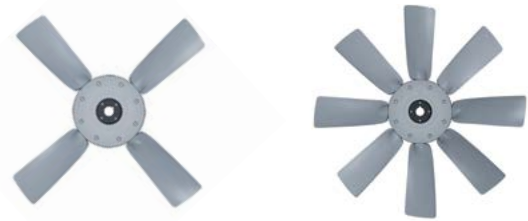
“B” BackSwept Propeller

The “B” series features an adjustable pitch die cast aluminum propeller available in 4, 5, and 6 blade designs. Blade angles are factory set and mounted in a die cast aluminum hub. “B” propellers are available in 14" through 54" diameters.



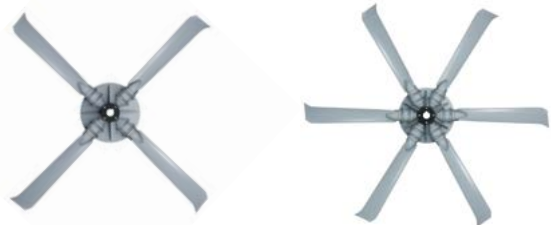
“E” Die Cast Aluminum Propeller

The “E” series features an adjustable pitch die cast aluminum propeller available in 4 and 8 blade designs. Blade angles are factory set and mounted in a die cast aluminum hub. “E” propellers are available in 14" through 48" diameters.



“C” Cast Aluminum Propellers

The “C” series is a cast aluminum propeller available in 4 and 6 blade designs, and is available in 54" and 60" diameters only. Blade angles are factory set and mounted in a cast aluminum hub.

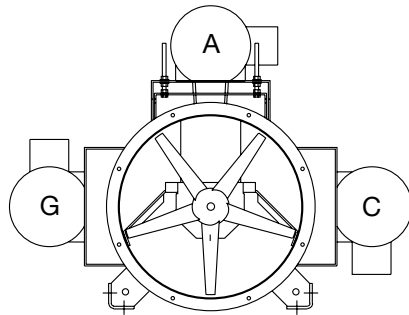


“Z” Fabricated Steel Propeller

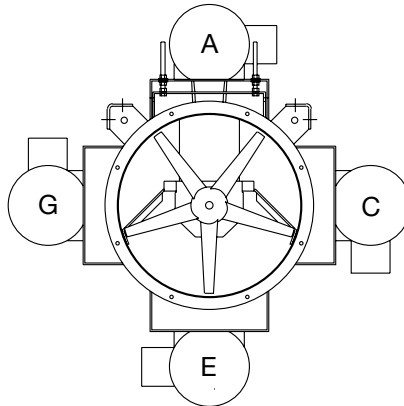
The “Z” series features a fixed pitch, fabricated steel, 5-bladed propeller. Steel blades are continuously welded to a heavy gauge hub at the customer’s selected blade angle. “Z” propellers are available in 24" through 60" diameters.



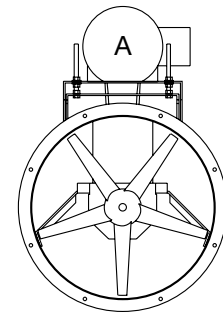
MOUNTING ARRANGEMENTS



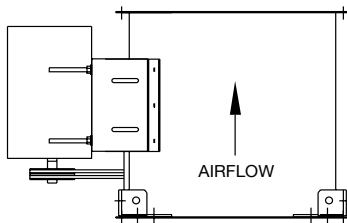
Horizontal Base Mounted (HBM)
(w/mounting brackets)



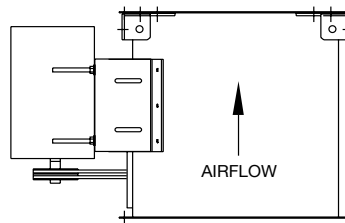
Horizontal Ceiling Hung (HCH)
(w/mounting brackets)



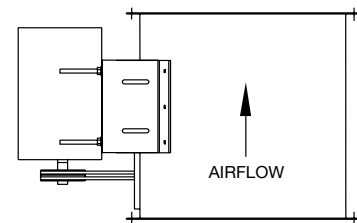
Horizontal (HOR)
(No mounting brackets)



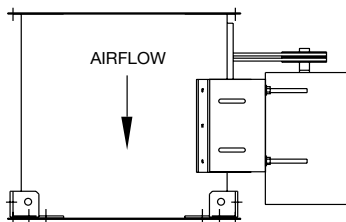
Vertical Up Floor Mounted (VUI)
(w/mounting brackets)



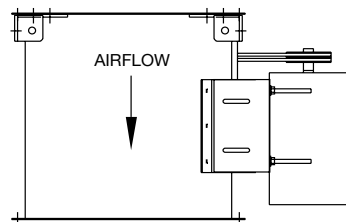
Vertical Up Ceiling Hung (VUO)
(w/mounting brackets)



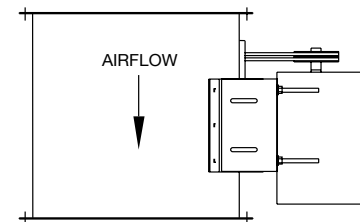
Vertical Up (VUN)
(No mounting brackets)



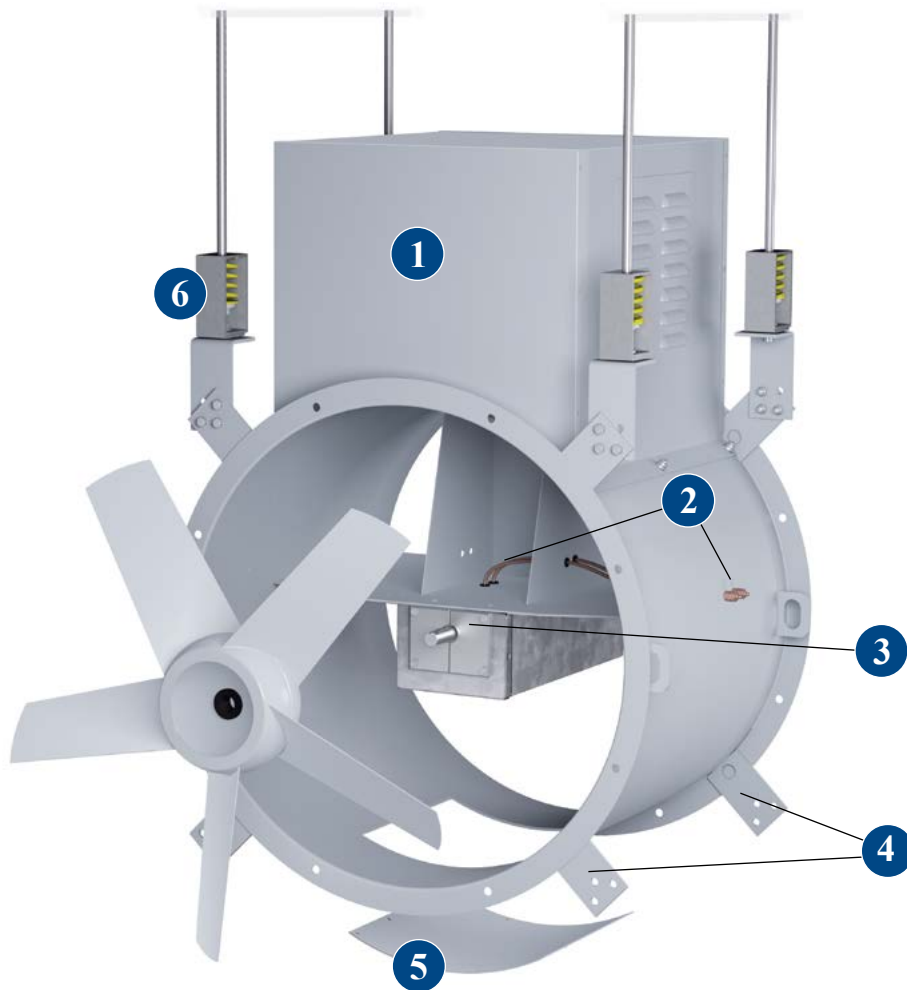
Vertical Down Floor Mounted (VDO)
(w/mounting brackets)



Vertical Down Ceiling Hung (VDI)
(w/mounting brackets)

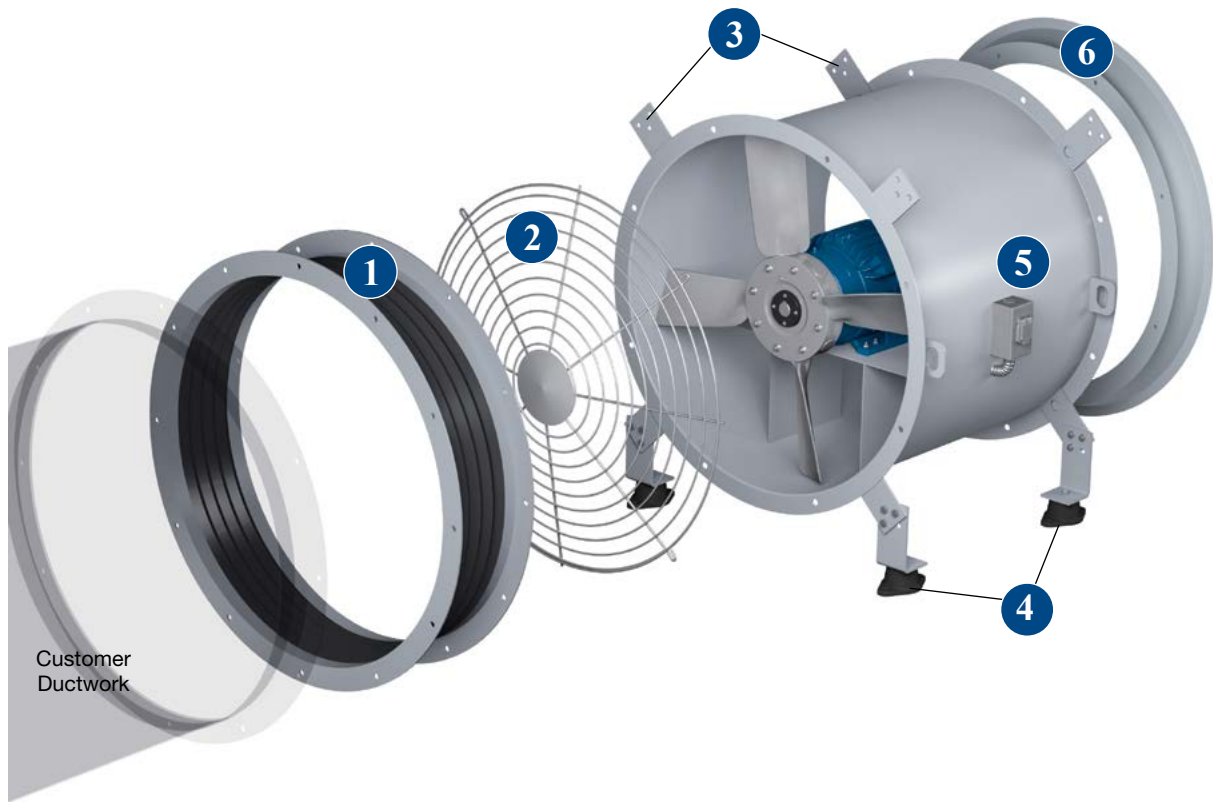


Vertical Down (VDN)
(No mounting brackets)



- 1 Motor Cover** A weatherproof motor cover is available on belt driven models to protect the motor and drive components. Motor covers also serve as an OSHA guard to protect personnel from rotating parts and can easily be removed for inspection. (Model TB fans only.)
- 2 Extended Lube Lines** Allow for easy lubrication of bearings on belt driven units without disassembly by extending polyethylene lines from fan bearings to exterior of base.
- 3 Shaft Seal** Shaft seal consists of a non-asbestos rubbing ring at the wheel end of the inner cylinder. A shaft seal is recommended when the fan is exposed to wet, corrosive or dirty contaminants. The shaft seal does not make the fan gas tight. (Model TB fans only.)
- 4 Mounting Brackets** Mounted to fan housing. Location varies with discharge orientation and mounting option. See page 4 for available options.
- 5 Access Door** A bolted access door allows for inspection and maintenance of internal fan components.
- 6 Hanging Spring Isolators** Spring type isolators are available to dampen vibration and noise transmission in ceiling suspended installations. Also available in rubber-in-shear construction.

OPTIONS/ACCESSORIES



- 1 Companion Flange** Inlet and outlet companion flanges are available for ease of duct connection. Companion flanges are rolled angle rings punched to match the standard inlet or outlet flange. Flex connectors are supplied by others.
- 2 Outlet Screen** Safety screens are available for mounting in the fan inlet or outlet in non-ducted applications.
- 3 Mounting Brackets** Mounted to fan housing. Location varies with discharge orientation and mounting option. See page 4 for available options.
- 4 Floor Mount RIS** Rubber-in-shear type isolators are available to damper vibration and noise transmission in floor mounted installations. Also available in spring type construction.
- 5 Disconnect Switch** A NEMA 3R safety disconnect switch is available for positive electrical shutoff of the fan and the protection of service personnel. Disconnects are shipped loose for field mounting and wiring.
- 6 Inlet Bell** An inlet bell is recommended to minimize entrance losses for installations where the inlet of the fan is non-ducted. Inlet bell is flanged and punched to mate up with the standard flanged inlet.

Other Accessories Include:

- Spark Resistant Construction - Type B is available on belt driven fans with the “B”, “E” or “C” cast aluminum propellers only. (Model TB fans only)
- Special Coatings
- Belt Guard (Model TB fans only)

DISCONNECT SWITCHES

NEMA-1 Disconnect Switch (Standard)

A NEMA-1 disconnect switch provides positive electrical shutoff during fan cleaning or maintenance. Available shipped loose for field mounting and wiring or factory mounted and wired with ODP or TEFC motors.



NEMA-1 Disconnect Switch

NEMA-3R Disconnect Switch

A NEMA-3R, rain proof, disconnect is available shipped loose for field mounting and wiring or factory mounted and wired.



NEMA-3R Disconnect Switch

NEMA-4 Disconnect Switch

A NEMA-4 disconnect switch provides positive electrical shutoff when fan cleaning or maintenance of fan and is water and dust tight. Switch is available shipped loose for field mounting and wiring or factory mounted and wired.



NEMA-4 Disconnect Switch

NEMA-7/9 Disconnect Switch

NEMA-7/9 disconnect switches are provided as standard on fan packages with explosion proof motors. The NEMA-7/9 switch is designed for use with fans operating in hazardous environments. When explosion proof motors are specified, NEMA-7/9 disconnects will be shipped loose for field mounting and wiring.

ENGINEERING DATA

Material Specifications

FAN SIZE	HOUSING (GAUGE)	PROPELLERS (GAUGES)				SHAFT SIZE (IN.)	APPROX. SHIP WT. (LB)					
		B/E	C	Z			TD		TB			
				HUB	BLADE		W/ALUM PROP	W/STEEL PROP	W/ALUM PROP	W/STEEL PROP		
14	14	DIE CAST ALUMINUM				3/4	33	N/A	40	N/A		
16	14					3/4	53	N/A	67	N/A		
18	14					3/4	60	N/A	75	N/A		
21	14					3/4	85	N/A	104	N/A		
24	14					12	14	1	97	118	118	139
30	12					12	14	1	149	170	183	204
36	12					12	12	1 3/16	234	257	288	311
42	12					10	10	1 7/16	305	325	375	395
48	12					10	10	1 7/16	547	565	664	682
54	12					CAST ALUMINUM				1 7/16	N/A	N/A
60	10	1 1/16	N/A	N/A	970					1008		

PERFORMANCE DATA

TD - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500			
14	5 BLADES	14B10510	1/4	1160	74	CFM	594	403										FEG63	
						BHP	0.02	0.02											
		14B10515	1/4	1160	71	CFM	832	654											
						BHP	0.03	0.03											
		14B10520	1/4	1160	70	CFM	1052	860											
						BHP	0.04	0.04											
		14B10525	1/4	1160	68	CFM	1240	1047											
						BHP	0.05	0.05											
		14B10530	1/4	1160	68	CFM	1433	1216											
						BHP	0.06	0.07											
	"B" Prop	14B10510	1/4	1750	86	CFM	896	778	645	498									
						BHP	0.07	0.07	0.08	0.07									
	14B10515	1/4	1750	82	CFM	1255	1154	1028	855	612									
					BHP	0.10	0.11	0.11	0.12	0.12									
	14B10520	1/4	1750	78	CFM	1587	1466	1336	1175										
					BHP	0.12	0.13	0.14	0.15										
	14B10525	1/4	1750	78	CFM	1871	1750	1619	1462	1228									
					BHP	0.16	0.17	0.19	0.20	0.21									
	14B10530	1/4	1750	78	CFM	2161	2028	1879	1697	1396									
					BHP	0.21	0.23	0.25	0.26	0.26									
	4 BLADES	TD-14E416	1/4	1160	70	CFM	1043											N/A	
						BHP	0.04												
		TD-14E420	1/4	1160	69	CFM	1183	871											
						BHP	0.05	0.05											
		TD-14E424	1/4	1160	71	CFM	1324	1015											
						BHP	0.06	0.07											
		TD-14E428	1/4	1160	72	CFM	1418	1104											
						BHP	0.07	0.08											
		TD-14E432	1/4	1160	70	CFM	1547	1193											
						BHP	0.09	0.09											
		"E" Prop	TD-14E416	1/4	1750	79	CFM	1573	1391	1132									
							BHP	0.14	0.15	0.16									
		TD-14E420	1/4	1750	82	CFM	1785	1601	1390										
						BHP	0.16	0.18	0.19										
		TD-14E424	1/4	1750	83	CFM	1997	1811	1604										
						BHP	0.20	0.22	0.23										
TD-14E428	1/4	1750	83	CFM	2138	1967	1743												
				BHP	0.25	0.25	0.26												
TD-14E432	1/3	1750	81	CFM	2334	2153	1892												
				BHP	0.29	0.30	0.31												
8 BLADES	TD-14E816	1/4	1160	74	CFM	979											N/A		
					BHP	0.05													
	TD-14E820	1/4	1160	74	CFM	1137	880												
					BHP	0.06	0.07												
	TD-14E824	1/4	1160	76	CFM	1317	1074												
					BHP	0.08	0.09												
	TD-14E828	1/4	1160	76	CFM	1444	1182												
					BHP	0.09	0.10												
	TD-14E832	1/4	1160	77	CFM	1578	1286												
					BHP	0.11	0.12												
	"E" Prop	TD-14E816	1/4	1750	84	CFM	1477	1334	1133										
						BHP	0.18	0.19	0.20										
	TD-14E820	1/4	1750	86	CFM	1715	1598	1401											
					BHP	0.21	0.23	0.24											
TD-14E824	1/3	1750	88	CFM	1986	1845	1677												
				BHP	0.26	0.28	0.29												
TD-14E828	1/3	1750	89	CFM	2179	2030	1847												
				BHP	0.31	0.33	0.34												
TD-14E832	1/2	1750	90	CFM	2380	2226	2020												
				BHP	0.38	0.40	0.40												

NOTES:

1. Performance certified is for installation Type B: Free inlet, ducted outlet.
2. Performance ratings do not include the effects of appurtenances (accessories).
3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

TD – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500				
16	5 BLADES "B" Prop	16B10510	1/4	1160	78	CFM	925	692											FEG67	
						BHP	0.04	0.04												
		16B10515	1/4	1160	76	CFM	1277	1070	700											
						BHP	0.05	0.06	0.06											
		16B10520	1/4	1160	74	CFM	1607	1374												
						BHP	0.06	0.07												
		16B10525	1/4	1160	71	CFM	1886	1649	1317											
						BHP	0.08	0.09	0.10											
		16B10530	1/4	1160	71	CFM	2176	1911	1503											
						BHP	0.11	0.13	0.13											
	16B10510	1/4	1750	90	CFM	1395	1252	1089	917	724										
					BHP	0.12	0.13	0.13	0.13	0.13										
	16B10515	1/4	1750	85	CFM	1927	1803	1659	1480	1227	922									
					BHP	0.17	0.18	0.19	0.20	0.21	0.20									
	16B10520	1/4	1750	83	CFM	2424	2276	2118	1946	1721										
					BHP	0.21	0.23	0.25	0.26	0.27										
	16B10525	1/3	1750	81	CFM	2846	2695	2534	2363	2143	1861									
					BHP	0.27	0.29	0.32	0.34	0.35	0.36									
	16B10530	1/2	1750	81	CFM	3283	3118	2936	2734	2461	2130									
					BHP	0.38	0.40	0.43	0.45	0.46	0.46									
	4 BLADES "E" Prop	TD-16E416	1/4	1160	72	CFM	1494	1132											N/A	
						BHP	0.06	0.07												
		TD-16E420	1/4	1160	72	CFM	1719	1361												
						BHP	0.07	0.08												
		TD-16E424	1/4	1160	73	CFM	1920	1578												
						BHP	0.09	0.10												
		TD-16E428	1/4	1160	72	CFM	2098	1750												
						BHP	0.11	0.12												
		TD-16E432	1/4	1160	73	CFM	2294	1923												
						BHP	0.14	0.15												
		TD-16E416	1/4	1750	83	CFM	2254	2063	1807	1383										
						BHP	0.20	0.22	0.24	0.22										
		TD-16E420	1/3	1750	83	CFM	2594	2379	2132	1784										
						BHP	0.25	0.26	0.28	0.29										
	TD-16E424	1/3	1750	83	CFM	2896	2706	2463	2139											
					BHP	0.31	0.33	0.35	0.36											
TD-16E428	1/2	1750	84	CFM	3166	2959	2717	2396												
				BHP	0.39	0.40	0.41	0.42												
TD-16E432	1/2	1750	82	CFM	3462	3259	2996	2625												
				BHP	0.47	0.49	0.50	0.50												
8 BLADES "E" Prop	TD-16E816	1/4	1160	75	CFM	1459	1177											N/A		
					BHP	0.08	0.09													
	TD-16E820	1/4	1160	75	CFM	1691	1441													
					BHP	0.10	0.11													
	TD-16E824	1/4	1160	75	CFM	1952	1709													
					BHP	0.12	0.14													
	TD-16E828	1/4	1160	75	CFM	2181	1923													
					BHP	0.15	0.16													
	TD-16E832	1/4	1160	76	CFM	2422	2136													
					BHP	0.18	0.20													
	TD-16E816	1/3	1750	86	CFM	2202	2036	1840												
					BHP	0.27	0.29	0.31												
	TD-16E820	1/2	1750	87	CFM	2552	2415	2239	1964											
					BHP	0.33	0.36	0.38	0.39											
TD-16E824	1/2	1750	87	CFM	2945	2805	2634	2398												
				BHP	0.41	0.44	0.46	0.48												
TD-16E828	3/4	1750	88	CFM	3290	3137	2958	2732												
				BHP	0.50	0.53	0.56	0.58												
TD-16E832	3/4	1750	90	CFM	3654	3485	3285	3029												
				BHP	0.62	0.65	0.68	0.69												

NOTES:

1. Performance certified is for installation Type B: Free inlet, ducted outlet.
2. Performance ratings do not include the effects of appurtenances (accessories).
3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TD – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwIA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500	
18	5 BLADES "B" Prop	Outlet Area: 1.82 ft ²														FEG75	
		18B10510	1/4	1160	82	CFM	1400	1114	755								
						BHP	0.05	0.06	0.06								
		18B10515	1/4	1160	78	CFM	1893	1639	1246								
						BHP	0.08	0.09	0.09								
		18B10520	1/4	1160	77	CFM	2364	2073	1700								
						BHP	0.10	0.11	0.12								
		18B10525	1/4	1160	71	CFM	2757	2455	2097								
						BHP	0.12	0.15	0.16								
		18B10530	1/4	1160	71	CFM	3160	2829	2394								
	BHP					0.17	0.20	0.21									
	18B10510	1/4	1750	93	CFM	2112	1938	1739	1528	1287	1024						
					BHP	0.19	0.20	0.21	0.21	0.21	0.20						
	18B10515	1/3	1750	88	CFM	2856	2701	2525	2319	2062	1705	1315					
					BHP	0.26	0.28	0.30	0.31	0.32	0.32	0.31					
	18B10520	1/2	1750	87	CFM	3566	3381	3184	2975	2729	2423						
					BHP	0.34	0.37	0.39	0.40	0.42	0.43						
	18B10525	3/4	1750	82	CFM	4160	3966	3762	3550	3316	3026	2698					
					BHP	0.42	0.46	0.49	0.52	0.55	0.57	0.58					
	18B10530	3/4	1750	82	CFM	4767	4560	4335	4083	3795	3449	3123					
					BHP	0.60	0.64	0.68	0.71	0.73	0.74	0.75					
	4 BLADES "E" Prop	TD-18E412	1/4	1160	75	CFM	1743	1301									
						BHP	0.07	0.07									
		TD-18E416	1/4	1160	75	CFM	2058	1690									
						BHP	0.08	0.10									
		TD-18E420	1/4	1160	73	CFM	2394	1986									
						BHP	0.10	0.12									
		TD-18E424	1/4	1160	75	CFM	2673	2322									
						BHP	0.13	0.15									
		TD-18E428	1/4	1160	75	CFM	2971	2573	1876								
						BHP	0.16	0.18	0.18								
		TD-18E432	1/4	1160	75	CFM	3250	2858	2171								
						BHP	0.21	0.22	0.21								
		TD-18E412	1/4	1750	84	CFM	2630	2378	2074	1661							
						BHP	0.23	0.24	0.25	0.25							
		TD-18E416	1/3	1750	86	CFM	3104	2900	2640	2248							
BHP						0.29	0.30	0.32	0.33								
TD-18E420		1/2	1750	85	CFM	3612	3376	3089	2729								
					BHP	0.34	0.37	0.39	0.41								
TD-18E424	1/2	1750	85	CFM	4032	3836	3591	3219	2760								
				BHP	0.44	0.47	0.50	0.51	0.51								
TD-18E428	3/4	1750	86	CFM	4482	4237	3963	3649	3186								
				BHP	0.56	0.58	0.60	0.62	0.62								
TD-18E432	3/4	1750	86	CFM	4904	4677	4404	4014	3572								
				BHP	0.71	0.72	0.74	0.76	0.76								
8 BLADES "E" Prop	TD-18E812	1/4	1160	75	CFM	1670	1331										
					BHP	0.09	0.10										
	TD-18E816	1/4	1160	76	CFM	2075	1765										
					BHP	0.11	0.13										
	TD-18E820	1/4	1160	76	CFM	2402	2140										
					BHP	0.14	0.16										
TD-18E824	1/4	1160	77	CFM	2768	2524	2083										
				BHP	0.18	0.20	0.21										
TD-18E828	1/4	1160	77	CFM	3133	2869	2468										
				BHP	0.22	0.25	0.27										
TD-18E832	1/3	1160	77	CFM	3523	3221	2781										
				BHP	0.28	0.31	0.33										

NOTES:

- Performance certified is for installation Type B: Free inlet, ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
- Values shown are for inlet LwIA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
- Sound power values shown are at the peak cataloged pressure for each RPM.

TD – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500		
18	8 BLADES "E" Prop	TD-18E812	1/2	1750	86	CFM	2520	2325	2080	1826	1565							FEG56	
						BHP	0.32	0.34	0.35	0.36	0.36								
		TD-18E816	1/2	1750	87	CFM	3131	2940	2727	2479	2155								
						BHP	0.38	0.42	0.44	0.46	0.46								
		TD-18E820	3/4	1750	89	CFM	3624	3470	3287	3041	2697								
						BHP	0.48	0.51	0.54	0.57	0.58								
	TD-18E824	3/4	1750	89	CFM	4176	4030	3860	3647	3338									
BHP					0.61	0.65	0.68	0.71	0.73										
TD-18E828	1	1750	89	CFM	4727	4565	4383	4174	3918	3433									
				BHP	0.76	0.81	0.85	0.89	0.92	0.93									
TD-18E832	1	1750	89	CFM	5315	5129	4921	4684											
						BHP	0.95	1.00	1.05	1.09									
21	5 BLADES "B" Prop	21B10510	1/4	1160	85	CFM	2376	2018	1582									FEG75	
						BHP	0.10	0.12	0.12										
		21B10515	1/4	1160	82	CFM	3138	2812	2385	1686									
						BHP	0.14	0.16	0.18	0.18									
		21B10520	1/4	1160	80	CFM	3881	3505	3070										
						BHP	0.20	0.22	0.24										
		21B10525	1/4	1160	75	CFM	4495	4097	3662	3104									
						BHP	0.24	0.28	0.31	0.33									
		21B10530	1/4	1160	74	CFM	5090	4672	4149										
						BHP	0.35	0.39	0.41										
	21B10510	1/2	1750	96	CFM	3584	3361	3117	2849	2563	2231	1852							
					BHP	0.36	0.38	0.39	0.41	0.41	0.41	0.40							
	21B10515	3/4	1750	92	CFM	4734	4530	4307	4060	3777	3436	2992	2435						
					BHP	0.50	0.53	0.56	0.58	0.61	0.62	0.62	0.60						
	21B10520	3/4	1750	90	CFM	5856	5615	5361	5093	4807	4476	4086							
					BHP	0.67	0.71	0.75	0.78	0.80	0.83	0.85							
	21B10525	1	1750	84	CFM	6781	6523	6256	5979	5693	5380	5018							
					BHP	0.84	0.90	0.95	1.00	1.05	1.09	1.12							
	21B10530	1 1/2	1750	85	CFM	7679	7415	7131	6820	6468	6085	5671							
BHP					1.19	1.26	1.31	1.36	1.40	1.43	1.45								
4 BLADES "E" Prop	TD-21E412	1/4	1160	75	CFM	2442	1882										FEG67		
					BHP	0.10	0.11												
	TD-21E416	1/4	1160	80	CFM	2967	2500	1635											
					BHP	0.12	0.14	0.14											
	TD-21E420	1/4	1160	79	CFM	3506	2979	2183											
					BHP	0.15	0.18	0.18											
	TD-21E424	1/4	1160	77	CFM	4009	3512	2819											
					BHP	0.20	0.23	0.24											
	TD-21E428	1/3	1160	77	CFM	4451	3934	3304											
					BHP	0.27	0.29	0.30											
	TD-21E432	1/2	1160	78	CFM	4906	4385	3680											
					BHP	0.34	0.36	0.38											
	TD-21E412	1/3	1750	88	CFM	3684	3353												
					BHP	0.33	0.35												
TD-21E416	1/2	1750	90	CFM	4476	4198	3873	3462	2861										
				BHP	0.42	0.45	0.48	0.50	0.49										
TD-21E420	3/4	1750	89	CFM	5288	4944	4591	4214	3682										
				BHP	0.53	0.57	0.60	0.63	0.63										
TD-21E424	1	1750	87	CFM	6048	5743	5402	5006	4555	3859									
				BHP	0.70	0.75	0.79	0.81	0.83	0.82									
TD-21E428	1	1750	88	CFM	6715	6378	6030	5682	5279	4699									
				BHP	0.92	0.95	0.98	1.01	1.03	1.03									
TD-21E432	1 1/2	1750	89	CFM	7401	7078	6722	6316	5845	5281									
				BHP	1.18	1.21	1.24	1.27	1.29	1.28									

NOTES:

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3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TD - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500		
21	8 BLADES "E" Prop	Outlet Area: 2.46 ft ²													FEG63				
		TD-21E812	1/4	1160	79	CFM	2344	1973	1536										
						BHP	0.15	0.16	0.17										
		TD-21E816	1/4	1160	81	CFM	2964	2624	2183										
						BHP	0.18	0.20	0.22										
		TD-21E820	1/3	1160	82	CFM	3543	3224	2771										
						BHP	0.22	0.26	0.28										
		TD-21E824	1/3	1160	80	CFM	4132	3835	3446										
						BHP	0.29	0.33	0.36										
		TD-21E828	1/2	1160	81	CFM	4726	4403	4012	3218									
						BHP	0.37	0.42	0.45	0.45									
		TD-21E832	3/4	1160	79	CFM	5310	4978	4572	3913									
						BHP	0.48	0.53	0.56	0.57									
		TD-21E812	3/4	1750	90	CFM	3537	3311	3055	2773	2497	2158							
BHP	0.51					0.53	0.54	0.56	0.57	0.57									
TD-21E816	3/4	1750	91	CFM	4471	4259	4027	3770	3477	3119									
				BHP	0.61	0.65	0.69	0.72	0.74	0.75									
TD-21E820	1	1750	93	CFM	5344	5148	4929	4678	4373	4004	3446								
				BHP	0.77	0.82	0.87	0.91	0.94	0.96	0.94								
TD-21E824	1 1/2	1750	93	CFM	6234	6048	5845	5620	5361	5049	4618								
				BHP	1.00	1.06	1.11	1.16	1.20	1.23	1.24								
TD-21E828	1 1/2	1750	91	CFM	7130	6926	6707	6468	6208	5915	5501	4706							
				BHP	1.28	1.35	1.41	1.47	1.52	1.57	1.60	1.50							
24	5 BLADES "B" Prop	Outlet Area: 3.21 ft ²													FEG80				
		24B10510	1/4	860	79	CFM	2791	2164											
						BHP	0.08	0.09											
		24B10515	1/4	860	77	CFM	3611	3013	1950										
						BHP	0.11	0.13	0.13										
		24B10520	1/4	860	77	CFM	4428	3759	2820										
						BHP	0.15	0.17	0.19										
		24B10525	1/4	860	73	CFM	5094	4392	3465										
						BHP	0.19	0.23	0.24										
		24B10530	1/4	860	72	CFM	5687	4945											
						BHP	0.27	0.30											
		24B10510	1/4	1160	89	CFM	3764	3334	2819	2140									
						BHP	0.18	0.21	0.22	0.22									
		24B10515	1/3	1160	84	CFM	4871	4459	3966	3286									
						BHP	0.26	0.29	0.32	0.33									
		24B10520	1/2	1160	83	CFM	5973	5502	4968	4312									
						BHP	0.36	0.40	0.43	0.45									
		24B10525	1/2	1160	79	CFM	6871	6367	5823	5180									
						BHP	0.47	0.52	0.57	0.60									
		24B10530	3/4	1160	80	CFM	7671	7163	6546	5788									
BHP	0.65					0.71	0.75	0.76											
24B10510	3/4	1750	99	CFM	5679	5406	5114	4796	4453	4080	3643	3138							
				BHP	0.64	0.67	0.70	0.73	0.75	0.76	0.75	0.74							
24B10515	1	1750	94	CFM	7348	7086	6807	6506	6179	5813	5382	4857	4190						
				BHP	0.89	0.93	0.98	1.03	1.07	1.10	1.13	1.14	1.11						
24B10520	1 1/2	1750	93	CFM	9011	8709	8391	8056	7701	7319	6895	6419	5899						
				BHP	1.24	1.30	1.36	1.41	1.46	1.49	1.53	1.56	1.56						
24B10525	2	1750	89	CFM	10365	10038	9700	9350	8989	8613	8201	7729	7200						
				BHP	1.62	1.70	1.77	1.84	1.91	1.97	2.02	2.05	2.06						
24B10530	3	1750	90	CFM	11573	11250	10905	10534	10124	9662	9170	8638							
				BHP	2.24	2.33	2.41	2.48	2.54	2.58	2.61	2.62							

NOTES:

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3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

TD – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500			
24	4 BLADES "E" Prop	Outlet Area: 3.21 ft ²														FEG75			
		TD-24E412	1/4	860	72	CFM	2432	1368											
						BHP	0.05	0.05											
		TD-24E416	1/4	860	75	CFM	3033	2085											
						BHP	0.06	0.08											
		TD-24E420	1/4	860	74	CFM	3634	2666											
						BHP	0.09	0.10											
		TD-24E424	1/4	860	72	CFM	4242	3289											
						BHP	0.12	0.14											
		TD-24E428	1/4	1160	72	CFM	4706	3832											
						BHP	0.16	0.18											
		TD-24E432	1/4	1160	73	CFM	5218	4270											
						BHP	0.21	0.23											
		TD-24E412	1/4	1160	81	CFM	3280	2558											
						BHP	0.12	0.13											
		TD-24E416	1/4	1160	82	CFM	4091	3495	2607										
						BHP	0.16	0.18	0.19										
		TD-24E420	1/4	1160	82	CFM	4901	4209	3399										
						BHP	0.21	0.24	0.26										
		TD-24E424	1/3	1160	79	CFM	5721	5016	4292										
						BHP	0.29	0.33	0.35										
		TD-24E428	1/2	1160	83	CFM	6348	5681	5037	3936									
						BHP	0.40	0.43	0.45	0.45									
		TD-24E432	3/4	1160	85	CFM	7038	6350	5611	4550									
						BHP	0.52	0.56	0.58	0.56									
		TD-24E412	1/2	1750	93	CFM	4949	4526	4005	3478	2876								
						BHP	0.42	0.43	0.45	0.45	0.44								
		TD-24E416	3/4	1750	94	CFM	6172	5802	5393	4929	4338								
						BHP	0.54	0.58	0.62	0.64	0.65								
		TD-24E420	1	1750	94	CFM	7394	6891	6456	6064	5522	4777							
						BHP	0.72	0.78	0.83	0.86	0.88	0.87							
		TD-24E424	1	1750	89	CFM	8631	8157	7691	7245	6765	6216	5342						
BHP	1.00					1.06	1.11	1.15	1.18	1.20	1.18								
TD-24E428	1 1/2	1750	91	CFM	9576	9128	8690	8274	7861	7355	6693								
				BHP	1.36	1.41	1.46	1.50	1.54	1.57	1.57								
TD-24E432	2	1750	94	CFM	10617	10169	9709	9241	8761	8201	7507								
				BHP	1.80	1.85	1.89	1.94	1.97	1.99	1.98								
8 BLADES "E" Prop	TD-24E812	1/4	860	77	CFM	2338	1764												
					BHP	0.08	0.09												
	TD-24E816	1/4	860	77	CFM	3005	2426												
					BHP	0.10	0.12												
	TD-24E820	1/4	860	78	CFM	3694	3137												
					BHP	0.13	0.16												
	TD-24E824	1/4	860	76	CFM	4355	3845												
					BHP	0.18	0.21												
	TD-24E828	1/3	860	77	CFM	5022	4475	3550											
					BHP	0.23	0.27	0.29											
	TD-24E832	1/2	860	76	CFM	5641	5121	4339											
					BHP	0.31	0.35	0.38											
	TD-24E812	1/4	1160	84	CFM	3154	2747	2299											
					BHP	0.21	0.22	0.23											
	TD-24E816	1/3	1160	84	CFM	4053	3687	3230	2571										
					BHP	0.25	0.28	0.30	0.32										
TD-24E820	1/2	1160	86	CFM	4982	4598	4141	3519											
				BHP	0.32	0.37	0.40	0.42											
TD-24E824	3/4	1160	86	CFM	5874	5514	5111	4605											
				BHP	0.43	0.49	0.53	0.56											
TD-24E828	3/4	1160	84	CFM	6773	6389	5954	5430											
				BHP	0.57	0.63	0.68	0.72											
TD-24E832	1	1160	83	CFM	7608	7245	6826	6320	5385										
				BHP	0.77	0.82	0.87	0.91	0.91										

NOTES:

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3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

TD – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500			
30	4 BLADES "E" Prop	TD-30E432	3	1160	90	CFM	14638	14018	13342	12589	11732	10722	9515					FEG71	
						BHP	2.05	2.14	2.21	2.27	2.29	2.29	2.26						
		TD-30E412	3	1750	101	CFM	10752	10358	9943	9505	9040	8534	7956	7333	6678				
						BHP	2.09	2.10	2.11	2.12	2.14	2.17	2.20	2.21	2.17				
		TD-30E416	3	1750	102	CFM	13235	12826	12410	11987	11563	11135	10678	10158	9567	8019			
						BHP	2.50	2.60	2.70	2.79	2.87	2.94	2.99	3.01	3.01	2.93			
		TD-30E420	5	1750	101	CFM	15396	15059	14708	14342	13958	13558	13144	12693	12150	10554			
						BHP	3.29	3.40	3.50	3.60	3.68	3.77	3.84	3.90	3.95	3.96			
		TD-30E424	5	1750	99	CFM	17836	17476	17101	16710	16300	15870	15417	14934	14408	13109	11621		
						BHP	4.37	4.48	4.58	4.68	4.78	4.87	4.95	5.02	5.08	5.18	5.13		
	8 BLADES "E" Prop	TD-30E812	1/2	860	82	CFM	5264	4770	4097	3301								FEG67	
						BHP	0.44	0.45	0.47	0.46									
		TD-30E816	3/4	860	83	CFM	6360	5863	5264	4480									
						BHP	0.49	0.54	0.57	0.58									
		TD-30E820	3/4	860	85	CFM	7426	7021	6438	5376									
						BHP	0.58	0.64	0.68	0.71									
		TD-30E824	1	860	85	CFM	9057	8500	7898	7210									
						BHP	0.75	0.82	0.89	0.96									
		TD-30E828	1 1/2	860	83	CFM	10366	9914	9374	8639	7635								
						BHP	0.94	1.03	1.11	1.18	1.23								
		TD-30E832	1 1/2	860	84	CFM	11637	11062	10419	9687	8716								
						BHP	1.18	1.29	1.38	1.44	1.49								
		TD-30E812	1 1/2	1160	89	CFM	7100	6755	6357	5847	5357	4814	3991						
						BHP	1.07	1.09	1.12	1.14	1.15	1.14	1.10						
		TD-30E816	1 1/2	1160	91	CFM	8578	8223	7835	7405	6916	6348	5595						
						BHP	1.20	1.27	1.33	1.38	1.41	1.42	1.41						
		TD-30E820	2	1160	93	CFM	10017	9733	9408	9017	8436	7659	6668						
						BHP	1.42	1.50	1.57	1.64	1.70	1.73	1.73						
TD-30E824		3	1160	93	CFM	12216	11811	11387	10942	10488	9993	9347	8345						
					BHP	1.84	1.94	2.04	2.13	2.23	2.32	2.37	2.35						
TD-30E828	3	1160	91	CFM	13983	13658	13306	12918	12478	11940	11287	10539	9556						
				BHP	2.32	2.43	2.54	2.65	2.76	2.86	2.95	3.02	3.02						
TD-30E832	5	1160	92	CFM	15696	15279	14839	14370	13869	13332	12725	11992							
				BHP	2.90	3.04	3.18	3.30	3.41	3.50	3.58	3.65							
TD-30E812	5	1750	101	CFM	10712	10491	10258	10011	9746	9454	9117	8759	8425	7796	6950				
				BHP	3.67	3.71	3.75	3.78	3.82	3.85	3.89	3.92	3.94	3.96	3.88				
TD-30E816	5	1750	103	CFM	12941	12711	12472	12225	11968	11699	11417	11119	10840	10114	9311				
				BHP	4.11	4.22	4.33	4.42	4.52	4.60	4.68	4.74	4.79	4.87	4.89				
TD-30E820	5	1750	104	CFM	15111	14929	14738	14535	14319	14087									
				BHP	4.88	5.00	5.11	5.23	5.34	5.44									

NOTES:

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3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TD - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA		STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE
	NO. OF BLADES	CATALOG NUMBER					0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	
42	Outlet Area: 9.85 ft ²																
	4 BLADES "E" Prop	TD-42E412	1 1/2	860	92	CFM	13701	12433	11042	9311							
						BHP	1.20	1.21	1.23	1.25							
		TD-42E416	2	860	92	CFM	16907	15708	14462	13039							
						BHP	1.43	1.56	1.65	1.70							
		TD-42E420	3	860	93	CFM	20014	18981	17826	16504	14519	12390					
						BHP	1.88	2.02	2.13	2.22	2.26	2.24					
		TD-42E424	3	860	91	CFM	23240	22124	20901	19541	17884	15703					
						BHP	2.50	2.64	2.76	2.88	2.96	2.97					
		TD-42E428	5	860	89	CFM	26459	25165	23820	22466	20911	18644					
						BHP	3.22	3.42	3.58	3.67	3.73	3.76					
		TD-42E432	5	860	92	CFM	28884	27676	26366	24924	23296	21352	18959				
						BHP	4.07	4.25	4.40	4.51	4.57	4.59	4.53				
	TD-42E412	3	1160	99	CFM	18480	17558	16592	15584	14472	13175	11812					
					BHP	2.94	2.95	2.96	2.99	3.03	3.07	3.03					
	TD-42E416	5	1160	100	CFM	22804	21926	20123	20099	19163	18129	16884	15391				
					BHP	3.50	3.69	3.85	3.99	4.09	4.17	4.18	4.14				
	TD-42E420	7 1/2	1160	100	CFM	26996	26247	25456	24613	23713	22745	21632	20090	18393			
					BHP	4.61	4.80	4.98	5.14	5.28	5.40	5.50	5.55	5.55			
	TD-42E424	7 1/2	1160	97	CFM	31347	30536	29686	28791	27843	26842	25755	24512	23012			
					BHP	6.13	6.32	6.50	6.68	6.84	6.99	7.13	7.24	7.31			
	TD-42E428	10	1160	97	CFM	35689	34737	33766	32775	31765	30767	29734	28575	27095			
					BHP	7.89	8.18	8.43	8.66	8.84	8.96	9.06	9.14	9.21			
	TD-42E432	10	1160	99	CFM	38960	38079	37161	36201	35192							
					BHP	9.98	10.24	10.47	10.68	10.87							
	8 BLADES "E" Prop	TD-42E812	3	860	91	CFM	13489	12777	11965	10982	10054						
						BHP	2.09	2.13	2.18	2.21	2.23						
		TD-42E816	3	860	93	CFM	16624	15907	15131	14279	13323	12204	10768				
BHP						2.35	2.50	2.63	2.71	2.75	2.78	2.77					
TD-42E820		5	860	95	CFM	19679	19113	18470	17706	16622	15211	13503					
					BHP	2.80	2.96	3.10	3.24	3.36	3.44	3.46					
TD-42E824		5	860	96	CFM	24039	23266	22450	21581	20667	19659	18398	16578				
					BHP	3.61	3.82	4.01	4.21	4.39	4.57	4.68	4.67				
TD-42E828		7 1/2	860	94	CFM	27566	26931	26242	25483	24626	23589	22315	20779	18676			
					BHP	4.57	4.80	5.02	5.24	5.45	5.65	5.82	5.95	5.93			
TD-42E832		7 1/2	860	94	CFM	31022	30248	29425	28541	27581	26529	25328	23865				
					BHP	5.79	6.08	6.36	6.61	6.83	7.01	7.15	7.27				
TD-42E812		5	1160	99	CFM	18195	17680	17133	16544	15891	15155	14424	13749	13049			
					BHP	5.12	5.19	5.25	5.31	5.36	5.41	5.44	5.47	5.48			
TD-42E816		7 1/2	1160	101	CFM	22423	21900	21355	20787	20190	19561	18894	18179	17406	15586		
					BHP	5.77	5.98	6.18	6.35	6.50	6.61	6.68	6.72	6.77	6.82		
TD-42E820		10	1160	104	CFM	26544	26135	25700	25233	24724	24163	23515	22688	21670	19459		
					BHP	6.88	7.09	7.29	7.49	7.68	7.87	8.04	8.20	8.33	8.48		
TD-42E824	10	1160	102	CFM	32424	31858	31276	30675	30055	29412	28748	28069	27360				
				BHP	8.87	9.14	9.42	9.68	9.95	10.20	10.46	10.71	10.96				

NOTES:

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3. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
4. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
5. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500			
14			Outlet Area: 1.11 ft ²																
	5 BLADES "B" Prop	14B10520	1/4	2094	82	CFM	1885	1788	1683	1566	1438								FEG60
						BHP	0.22	0.24	0.25	0.26	0.27								
		14B10525	1/4	1909	79	CFM	2016	1910	1789	1647	1478								
						BHP	0.22	0.23	0.25	0.26	0.27								
		14B10530	1/4	1762	78	CFM	2132	2003	1847	1648	1380								
						BHP	0.24	0.25	0.26	0.27	0.27								
		14B10520	1/3	2297	84	CFM	2067	1980	1886	1784	1674	1553							
						BHP	0.29	0.31	0.32	0.33	0.34	0.36							
		14B10525	1/3	2094	81	CFM	2211	2116	2010	1889	1751	1587							
						BHP	0.29	0.31	0.32	0.34	0.35	0.36							
		14B10530	1/3	1933	79	CFM	2339	2223	2089	1925	1717								
						BHP	0.31	0.33	0.34	0.36	0.36								
	14B10520	1/2	2638	87	CFM	2374	2299	2220	2135	2045	1950	1848	1736						
					BHP	0.45	0.46	0.48	0.49	0.51	0.52	0.53	0.54						
	14B10525	1/2	2405	84	CFM	2540	2457	2369	2272	2165	2046	1915	1758						
					BHP	0.44	0.46	0.48	0.49	0.51	0.53	0.54	0.55						
	14B10530	1/2	2220	82	CFM	2686	2587	2477	2351	2204	2030	1819							
					BHP	0.47	0.49	0.51	0.53	0.54	0.55	0.55							
	14B10520	3/4	3020	91	CFM	2718	2653	2585	2514	2439	2361	2279	2193	2103	1893				
					BHP	0.67	0.69	0.71	0.72	0.74	0.76	0.77	0.78	0.80	0.82				
	14B10525	3/4	2753	86	CFM	2907	2836	2760	2680	2594	2501	2401	2293	2174					
					BHP	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80	0.81					
	14B10530	3/4	2541	85	CFM	3075	2989	2896	2795	2683	2555	2413	2240	2056					
					BHP	0.71	0.73	0.75	0.77	0.79	0.80	0.82	0.82	0.82					
	4 BLADES "E" Prop	TB-14E432	1/4	1680	80	CFM	2105	1864										N/A	
						BHP	0.25	0.25											
		TB-14E428	1/4	1780	81	CFM	2058	1884	1630										
						BHP	0.24	0.25	0.25										
		TB-14E420	1/4	1994	82	CFM	1948	1815	1629	1366									
						BHP	0.22	0.23	0.25	0.25									
		TB-14E432	1/3	1849	83	CFM	2317	2102	1821										
						BHP	0.33	0.33	0.33										
		TB-14E428	1/3	1957	83	CFM	2262	2108	1910										
						BHP	0.32	0.33	0.33										
		TB-14E420	1/3	2197	85	CFM	2146	2028	1879	1670									
BHP						0.29	0.31	0.32	0.33										
TB-14E432		1/2	2116	86	CFM	2651	2469	2256											
					BHP	0.49	0.50	0.50											
TB-14E428		1/2	2242	87	CFM	2592	2460	2304	2102										
					BHP	0.48	0.49	0.50	0.50										
TB-14E420		1/2	2518	88	CFM	2460	2359	2242	2091	1903	1645								
					BHP	0.44	0.46	0.48	0.49	0.50	0.49								
TB-14E432	3/4	2422	90	CFM	3035	2878	2701	2500											
				BHP	0.73	0.74	0.75	0.75											
TB-14E428	3/4	2566	90	CFM	2966	2854	2726	2579	2390										
				BHP	0.72	0.73	0.74	0.75	0.75										
TB-14E420	3/4	2880	92	CFM	2814	2727	2630	2520	2380	2215	2034								
				BHP	0.66	0.69	0.70	0.72	0.74	0.75	0.75								
8 BLADES "E" Prop	TB-14E832	1/4	1547	80	CFM	1954	1738									N/A			
					BHP	0.24	0.25												
	TB-14E832	1/3	1702	83	CFM	2150	1968												
					BHP	0.32	0.33												
	TB-14E832	1/2	1946	86	CFM	2458	2309	2023											
					BHP	0.48	0.50	0.49											
	TB-14E832	3/4	2230	90	CFM	2816	2692	2522											
					BHP	0.73	0.74	0.75											

NOTES:

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2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500		
16			Outlet Area: 1.44 ft ²																
	5 BLADES "B" Prop	16B10520	1/4	1741	83	CFM	2376	2233	2073	1892	1675								FEG63
						BHP	0.22	0.24	0.25	0.26	0.27								
		16B10525	1/4	1585	78	CFM	2526	2365	2179	1960	1681								
						BHP	0.22	0.24	0.25	0.27	0.28								
		16B10530	1/4	1458	76	CFM	2655	2456	2206	1879									
						BHP	0.24	0.25	0.27	0.27									
		16B10520	1/3	1910	86	CFM	2607	2478	2336	2179	2006	1796							
						BHP	0.30	0.31	0.33	0.34	0.35	0.36							
		16B10525	1/3	1739	80	CFM	2772	2627	2464	2277	2059								
						BHP	0.29	0.31	0.33	0.34	0.36								
		16B10530	1/3	1600	78	CFM	2914	2735	2523	2259	1944								
						BHP	0.31	0.33	0.35	0.36	0.36								
	16B10520	1/2	2194	88	CFM	2995	2884	2765	2636	2497	2348	2179							
					BHP	0.45	0.47	0.49	0.50	0.52	0.53	0.54							
	16B10525	1/2	1997	83	CFM	3183	3058	2923	2773	2607	2422	2200							
					BHP	0.43	0.46	0.48	0.50	0.52	0.54	0.55							
	16B10530	1/2	1837	81	CFM	3345	3192	3021	2819	2581	2306								
					BHP	0.47	0.49	0.52	0.53	0.54	0.55								
	16B10520	3/4	2511	90	CFM	3428	3331	3230	3122	3009	2888	2760	2625	2471					
					BHP	0.67	0.69	0.72	0.74	0.75	0.77	0.79	0.80	0.82					
	16B10525	3/4	2286	86	CFM	3644	3536	3421	3298	3165	3021	2865	2689	2491					
					BHP	0.65	0.68	0.71	0.73	0.76	0.78	0.80	0.82	0.83					
	16B10530	3/4	2103	84	CFM	3830	3698	3554	3396	3214	3009	2767	2532						
					BHP	0.71	0.73	0.76	0.78	0.80	0.81	0.82	0.82						
	4 BLADES "E" Prop	TB-16E432	1/4	1410	78	CFM	2655	2368										FEG50	
						BHP	0.24	0.25											
		TB-16E428	1/4	1500	79	CFM	2589	2348	1983										
BHP						0.23	0.25	0.25											
TB-16E420		1/4	1710	82	CFM	2421	2234	1957											
					BHP	0.22	0.24	0.25											
TB-16E432		1/3	1550	81	CFM	2919	2668	2271											
					BHP	0.32	0.33	0.33											
TB-16E428		1/3	1651	82	CFM	2850	2637	2355											
					BHP	0.31	0.33	0.33											
TB-16E420		1/3	1882	84	CFM	2665	2499	2278	1977										
					BHP	0.29	0.31	0.33	0.33										
TB-16E432		1/2	1775	85	CFM	3342	3132	2848											
					BHP	0.48	0.49	0.50											
TB-16E428		1/2	1890	88	CFM	3262	3081	2864	2569										
					BHP	0.47	0.48	0.50	0.50										
TB-16E420		1/2	2154	89	CFM	3050	2909	2740	2511	2242									
					BHP	0.44	0.46	0.48	0.50	0.50									
TB-16E432		3/4	2032	89	CFM	3826	3647	3432	3135										
					BHP	0.72	0.74	0.75	0.75										
TB-16E428	3/4	2164	89	CFM	3735	3580	3404	3195	2919										
				BHP	0.70	0.72	0.74	0.75	0.75										
TB-16E420	3/4	2466	91	CFM	3492	3371	3234	3071	2859	2628									
				BHP	0.66	0.68	0.71	0.73	0.75	0.75									
TB-16E432	1	2237	91	CFM	4212	4052	3867	3638	3333										
				BHP	0.96	0.98	0.99	1.00	0.99										
TB-16E428	1	2382	92	CFM	4111	3972	3818	3643	3437	3163									
				BHP	0.93	0.96	0.98	0.99	1.00	1.00									
TB-16E420	1	2714	93	CFM	3843	3734	3614	3478	3315	3114	2905	2625							
				BHP	0.88	0.91	0.93	0.96	0.98	1.00	1.00	0.97							

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB – Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA		STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE
	NO. OF BLADES	CATALOG NUMBER					0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	
16	8 "E" Prop	Outlet Area: 1.44 ft ²														N/A	
		TB-16E832	1/4	1270	78	CFM	2532	2276									
						BHP	0.24	0.25									
		TB-16E832	1/3	1395	80	CFM	2782	2561									
						BHP	0.31	0.33									
		TB-16E832	1/2	1600	84	CFM	3190	3008	2722								
						BHP	0.47	0.49	0.50								
		TB-16E832	3/4	1830	87	CFM	3649	3495	3298	2933							
						BHP	0.70	0.73	0.75	0.74							
						CFM	4018	3881	3716	3485							
				BHP	0.94	0.97	0.99	1.00									
18	5 "B" Prop	Outlet Area: 1.82 ft ²														FEG67	
		18B10520	1/4	1494	82	CFM	2976	2764	2521	2242							
						BHP	0.23	0.24	0.26	0.27							
		18B10525	1/4	1355	75	CFM	3127	2883	2601	2266							
						BHP	0.21	0.24	0.26	0.27							
		18B10530	1/4	1244	74	CFM	3257	2954	2576	2158							
						BHP	0.23	0.26	0.27	0.28							
		18B10520	1/3	1639	84	CFM	3265	3074	2860	2619	2342						
						BHP	0.30	0.32	0.33	0.35	0.36						
		18B10525	1/3	1486	78	CFM	3430	3209	2962	2682	2347						
						BHP	0.28	0.31	0.33	0.35	0.36						
		18B10530	1/3	1365	75	CFM	3574	3302	2977	2593							
						BHP	0.31	0.33	0.35	0.36							
		18B10520	1/2	1883	89	CFM	3751	3587	3409	3214	3001	2767	2483				
						BHP	0.45	0.47	0.50	0.51	0.53	0.54	0.55				
		18B10525	1/2	1707	81	CFM	3940	3750	3545	3318	3070	2782					
						BHP	0.43	0.46	0.49	0.51	0.53	0.55					
		18B10530	1/2	1567	79	CFM	4102	3870	3608	3301	2962						
						BHP	0.47	0.50	0.52	0.54	0.55						
		18B10520	3/4	2155	90	CFM	4293	4150	4000	3839	3665	3480	3284	3059			
				BHP	0.68	0.70	0.73	0.75	0.77	0.79	0.81	0.82					
18B10525	3/4	1954	84	CFM	4510	4346	4172	3985	3784	3568	3331	3063					
				BHP	0.64	0.68	0.71	0.74	0.77	0.80	0.82	0.83					
18B10530	3/4	1794	82	CFM	4697	4496	4278	4034	3760	3461	3185						
				BHP	0.70	0.74	0.77	0.79	0.81	0.82	0.83						

NOTES:

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3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500			
18	4 BLADES "E" Prop	Outlet Area: 1.82 ft ²														FEG56			
		TB-18E432	1/4	1208	78	CFM	3257	2914											
						BHP	0.24	0.25											
		TB-18E428	1/4	1287	79	CFM	3163	2840	2359										
						BHP	0.22	0.24	0.25										
		TB-18E420	1/4	1500	81	CFM	2955	2701	2321										
						BHP	0.21	0.24	0.25										
		TB-18E432	1/3	1330	80	CFM	3586	3289	2764										
						BHP	0.32	0.33	0.33										
		TB-18E428	1/3	1416	80	CFM	3481	3194	2802										
						BHP	0.30	0.32	0.33										
		TB-18E420	1/3	1651	84	CFM	3252	3027	2719	2298									
						BHP	0.29	0.32	0.33	0.33									
		TB-18E432	1/2	1523	84	CFM	4106	3859	3494	2954									
						BHP	0.48	0.49	0.50	0.49									
		TB-18E428	1/2	1622	85	CFM	3987	3744	3446	3053									
						BHP	0.44	0.47	0.49	0.50									
		TB-18E420	1/2	1892	88	CFM	3727	3536	3305	2989	2599								
						BHP	0.43	0.47	0.49	0.50	0.49								
		TB-18E432	3/4	1743	87	CFM	4699	4489	4229	3819	3339								
						BHP	0.72	0.73	0.74	0.75	0.74								
		TB-18E428	3/4	1855	88	CFM	4560	4352	4113	3821	3463								
						BHP	0.67	0.69	0.72	0.74	0.75								
		TB-18E420	3/4	2163	91	CFM	4261	4097	3910	3683	3394	3074							
						BHP	0.64	0.69	0.72	0.74	0.75	0.74							
		TB-18E432	1	1919	89	CFM	5174	4986	4766	4472	4054	3581							
						BHP	0.96	0.97	0.98	0.99	1.00	0.97							
		TB-18E428	1	2043	92	CFM	5022	4835	4627	4387	4096	3760							
						BHP	0.89	0.92	0.95	0.97	1.00	1.00							
		TB-18E420	1	2382	94	CFM	4693	4545	4382	4196	3966	3697	3407						
BHP	0.86					0.91	0.95	0.98	1.00	1.00	0.99								
TB-18E432	1 1/2	2197	94	CFM	5923	5762	5582	5372	5097	4728	4363								
				BHP	1.44	1.45	1.47	1.48	1.49	1.50	1.49								
TB-18E428	1 1/2	2339	95	CFM	5749	5588	5414	5223	5007	4756	4473								
				BHP	1.33	1.37	1.40	1.43	1.46	1.49	1.50								
TB-18E420	1 1/2	2727	97	CFM	5372	5245	5108	4958	4792	4594	4364	3858							
				BHP	1.29	1.34	1.40	1.44	1.48	1.50	1.50	1.49							
8 BLADES "E" Prop	TB-18E832	1/4	1065	75	CFM	3150	2833												
					BHP	0.23	0.25												
	TB-18E832	1/3	1173	76	CFM	3470	3196	2675											
					BHP	0.31	0.33	0.33											
	TB-18E832	1/2	1344	81	CFM	3976	3748	3412											
					BHP	0.46	0.49	0.50											
	TB-18E832	3/4	1538	85	CFM	4549	4357	4116	3721										
					BHP	0.69	0.72	0.74	0.75										
	TB-18E832	1	1693	87	CFM	5008	4836	4632	4361	3932									
					BHP	0.92	0.95	0.98	1.00	0.99									
	TB-18E832	1 1/2	1938	90	CFM	5733	5585	5419	5225	4971	4593								
					BHP	1.38	1.42	1.45	1.48	1.50	1.49								

NOTES:

1. Performance certified is for installation Type B: Free inlet, ducted outlet.
2. Power rating (BHP) does not include transmission losses.
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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500		
21	Outlet Area: 2.46 ft²														FEG60				
	4 BLADES "E" Prop	TB-21E428	3/4	1551	86	CFM	5805	5444	5045	4586									
						BHP	0.68	0.71	0.73	0.75									
		TB-21E420	3/4	1816	90	CFM	5366	5097	4797	4453	4019								
						BHP	0.65	0.69	0.72	0.74	0.75								
		TB-21E432	1	1599	88	CFM	6537	6230	5859	5326	4800								
						BHP	0.94	0.97	0.99	1.00	1.00								
		TB-21E428	1	1708	90	CFM	6393	6067	5714	5330	4876								
						BHP	0.90	0.94	0.96	0.99	1.00								
		TB-21E420	1	1999	93	CFM	5907	5665	5400	5108	4772	4352							
						BHP	0.86	0.91	0.95	0.98	1.00	1.00							
	TB-21E432	1 1/2	1832	91	CFM	7489	7227	6928	6562	6071	5617								
					BHP	1.41	1.44	1.47	1.49	1.50	1.50								
	TB-21E428	1 1/2	1955	94	CFM	7318	7035	6736	6417	6076	5684	5198							
					BHP	1.35	1.39	1.43	1.46	1.48	1.50	1.49							
	TB-21E420	1 1/2	2288	97	CFM	6761	6551	6328	6088	5827	5538	5199	4772						
					BHP	1.29	1.35	1.40	1.44	1.47	1.49	1.50	1.49						
	TB-21E432	2	2015	94	CFM	8237	8001	7739	7441	7063	6606	6198	5684						
					BHP	1.88	1.91	1.94	1.97	1.99	2.00	2.00	1.96						
	TB-21E428	2	2152	97	CFM	8055	7800	7532	7250	6955	6637	6279	5862						
BHP					1.80	1.85	1.89	1.92	1.96	1.98	2.00	2.00							
TB-21E420	2	2519	100	CFM	7444	7254	7055	6844	6619	6378	6114	5814	5460						
				BHP	1.73	1.79	1.84	1.89	1.93	1.97	1.99	2.00	1.99						
8 BLADES "E" Prop	TB-21E832	1/4	880	75	CFM	3969	3482												
					BHP	0.22	0.25												
	TB-21E832	1/3	966	77	CFM	4357	3937												
					BHP	0.29	0.32												
	TB-21E832	1/2	1106	81	CFM	4988	4639	4120											
					BHP	0.44	0.48	0.50											
	TB-21E832	3/4	1268	83	CFM	5719	5424	5052	4493										
					BHP	0.66	0.71	0.74	0.75										
	TB-21E832	1	1394	85	CFM	6287	6023	5710	5286	4719									
					BHP	0.88	0.93	0.97	1.00	1.00									
TB-21E832	1 1/2	1596	89	CFM	7198	6972	6717	6417	6022	5532									
				BHP	1.32	1.38	1.43	1.47	1.50	1.50									
TB-21E832	2	1757	92	CFM	7924	7721	7497	7245	6948	6565	6118								
				BHP	1.76	1.82	1.88	1.93	1.98	2.00	2.00								
24	Outlet Area: 3.21 ft²														FEG71				
	24B10520	1/3	1074	80	CFM	5304	4804	4203											
					BHP	0.31	0.33	0.35											
	24B10525	1/3	979	74	CFM	5510	4930	4235											
					BHP	0.31	0.34	0.36											
	24B10530	1/3	903	72	CFM	5629	4923												
					BHP	0.33	0.36												
	24B10520	1/2	1233	83	CFM	6090	5662	5173	4619										
					BHP	0.46	0.50	0.52	0.54										
	24B10525	1/2	1124	78	CFM	6326	5831	5264	4602										
					BHP	0.46	0.50	0.53	0.55										
	24B10530	1/2	1037	76	CFM	6465	5866	5149											
					BHP	0.50	0.53	0.55											
	24B10520	3/4	1412	87	CFM	6974	6606	6201	5747	5256	4674								
					BHP	0.69	0.73	0.77	0.80	0.82	0.83								
	24B10525	3/4	1287	81	CFM	7243	6817	6348	5823	5227									
					BHP	0.70	0.74	0.78	0.81	0.83									
	24B10530	3/4	1187	80	CFM	7400	6886	6301	5634										
					BHP	0.75	0.79	0.82	0.82										
	24B10520	1	1554	90	CFM	7675	7343	6986	6594	6165	5710	5177							
BHP					0.93	0.97	1.01	1.04	1.07	1.10	1.10								
24B10525	1	1417	84	CFM	7975	7591	7177	6722	6228	5668									
				BHP	0.93	0.98	1.03	1.06	1.09	1.10									
24B10530	1	1307	81	CFM	8148	7685	7178	6596											
				BHP	1.01	1.05	1.08	1.10											

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE				
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500			
24	8 BLADES "E" Prop	Outlet Area: 3.21 ft ²													FEG63					
		TB-24E832	1/3	814	76	CFM	5309	4705												
						BHP	0.28	0.32												
		TB-24E832	1/2	931	80	CFM	6072	5569	4845											
						BHP	0.41	0.46	0.50											
		TB-24E832	3/4	1066	84	CFM	6952	6527	5990	5239										
						BHP	0.62	0.68	0.73	0.75										
		TB-24E832	1	1174	86	CFM	7657	7277	6827	6236										
						BHP	0.83	0.89	0.95	0.99										
		TB-24E832	1 1/2	1344	89	CFM	8766	8440	8073	7641	7098	6427								
						BHP	1.24	1.32	1.39	1.44	1.49	1.49								
		TB-24E832	2	1480	92	CFM	9653	9359	9037	8676	8250	7733	7125							
						BHP	1.66	1.74	1.82	1.89	1.95	1.99	1.99							
		TB-24E832	3	1694	95	CFM	11048	10795	10523	10230	9907	9540	9113	8628		8062				
BHP	2.49					2.58	2.68	2.76	2.84	2.91	2.96	2.99	2.98							
30	5 BLADES "B" Prop	Outlet Area: 5.03 ft ²													FEG71					
		30B10520	1/2	863	78	CFM	8774	7789	6617											
						BHP	0.47	0.52	0.55											
		30B10525	1/2	793	78	CFM	9047	7903	6404											
						BHP	0.51	0.55	0.54											
		30B10530	1/2	735	76	CFM	9060	7722												
						BHP	0.53	0.55												
		30B10520	3/4	988	82	CFM	10045	9201	8227	7132										
						BHP	0.71	0.77	0.81	0.83										
		30B10525	3/4	907	79	CFM	10347	9377	8189											
						BHP	0.77	0.81	0.83											
		30B10530	3/4	842	80	CFM	10378	9260	7846											
						BHP	0.80	0.83	0.82											
		30B10520	1	1088	85	CFM	11062	10304	9456	8517	7439									
						BHP	0.95	1.01	1.06	1.10	1.10									
		30B10525	1	999	83	CFM	11397	10529	9507	8294										
						BHP	1.02	1.07	1.10	1.09										
		30B10530	1	926	82	CFM	11414	10414	9176											
						BHP	1.07	1.10	1.09											
		30B10520	1 1/2	1245	88	CFM	12658	12003	11297	10512	9686	8759								
						BHP	1.42	1.49	1.56	1.60	1.64	1.65								
		30B10525	1 1/2	1143	86	CFM	13039	12293	11461	10498	9408									
						BHP	1.53	1.59	1.64	1.65	1.64									
		30B10530	1 1/2	1060	86	CFM	13066	12208	11227	10052										
						BHP	1.60	1.64	1.65	1.63										
		30B10520	2	1370	90	CFM	13929	13337	12709	12030	11292	10537	9687							
						BHP	1.89	1.98	2.05	2.11	2.15	2.20	2.20							
		30B10525	2	1258	89	CFM	14351	13679	12948	12123	11215	10194								
						BHP	2.04	2.11	2.16	2.19	2.20	2.18								
		30B10530	2	1167	87	CFM	14384	13613	12764	11756										
BHP	2.14					2.18	2.20	2.19												
30B10520	3	1568	93	CFM	15942	15429	14892	14328	13725	13081	12427	11734	10976							
				BHP	2.84	2.93	3.02	3.10	3.17	3.22	3.27	3.30	3.29							
30B10525	3	1440	91	CFM	16428	15846	15227	14562	13824	13035	12164									
				BHP	3.06	3.14	3.21	3.26	3.29	3.30	3.29									
30B10530	3	1336	91	CFM	16468	15801	15086	14304	13395	12478										
				BHP	3.21	3.26	3.29	3.31	3.28	3.26										
30B10520	5	1859	97	CFM	18900	18470	18027	17568	17092	16596	16070	15524	14971	13810	12464					
				BHP	4.73	4.84	4.95	5.05	5.15	5.23	5.30	5.36	5.42	5.50	5.44					
30B10525	5	1707	95	CFM	19473	18987	18480	17948	17388	16784	16139	15469	14754							
				BHP	5.10	5.20	5.29	5.36	5.43	5.47	5.49	5.50	5.49							
30B10530	5	1583	95	CFM	19512	18955	18370	17754	17098	16353	15559	14798								
				BHP	5.34	5.40	5.45	5.48	5.50	5.48	5.44	5.42								

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE		
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500	
42	8 BLADES "E" Prop	Outlet Area: 9.85 ft ²													FEG63			
		TB-42E832	1	447	78	CFM	15564	13876	11276									
						BHP	0.81	0.94	1.00									
		TB-42E832	1 1/2	512	82	CFM	17827	16404	14588									
						BHP	1.22	1.37	1.48									
		TB-42E832	2	563	85	CFM	19603	18332	16807	14723								
						BHP	1.62	1.79	1.92	1.99								
		TB-42E832	3	645	88	CFM	22458	21369	20133	18670	16718							
						BHP	2.43	2.63	2.80	2.93	3.00							
		TB-42E832	5	765	93	CFM	26636	25734	24752	23667	22442	20960						
						BHP	4.06	4.30	4.51	4.71	4.86	4.97						
		TB-42E832	7 1/2	875	97	CFM	30466	29684	28853	27961	26994	25934	24725	23287				
						BHP	6.08	6.35	6.61	6.85	7.06	7.24	7.38	7.47				
		TB-42E832	10	963	99	CFM	33530	32823	32081	31296	30461	29566	28599	27525		26284		
BHP	8.10					8.40	8.69	8.96	9.22	9.45	9.64	9.81	9.92					
48	4 BLADES "B" Prop	Outlet Area: 12.90 ft ²													FEG67			
		48B30420	1 1/2	751	86	CFM	22327	20116	17627									
						BHP	1.59	1.63	1.65									
		48B30425	1 1/2	677	81	CFM	23652	21113	18306									
						BHP	1.59	1.63	1.65									
		48B30430	1 1/2	619	80	CFM	23807	20591										
						BHP	1.65	1.64										
		48B30420	2	827	89	CFM	24587	22603	20387	17968								
						BHP	2.12	2.17	2.20	2.20								
		48B30425	2	745	84	CFM	26027	23746	21236	18319								
						BHP	2.12	2.17	2.20	2.18								
		48B30430	2	681	82	CFM	26191	23367										
						BHP	2.20	2.20										
		48B30420	3	946	92	CFM	28125	26412	24546	22550	20368							
						BHP	3.17	3.24	3.28	3.30	3.28							
		48B30425	3	853	87	CFM	29800	27831	25703	23469								
						BHP	3.19	3.25	3.28	3.30								
		48B30430	3	779	85	CFM	29960	27573										
						BHP	3.29	3.30										
		48B30420	5	1122	96	CFM	33357	31930	30418	28804	27119	25410	23338					
						BHP	5.29	5.37	5.44	5.48	5.50	5.51	5.45					
		48B30425	5	1011	91	CFM	35320	33676	31942	30109	28220	26152						
						BHP	5.31	5.38	5.43	5.47	5.50	5.49						
		48B30430	5	924	90	CFM	35537	33579	31315									
						BHP	5.50	5.51	5.48									
		48B30420	7 1/2	1284	99	CFM	38173	36935	35642	34285	32860	31388	29911	28314				
						BHP	7.93	8.02	8.11	8.17	8.22	8.24	8.26	8.23				
		48B30425	7 1/2	1157	94	CFM	40421	38993	37508	35956	34340	32687	31002	28975				
BHP	7.96					8.04	8.11	8.16	8.20	8.23	8.25	8.20						
48B30430	7 1/2	1057	93	CFM	40652	38966	37103	34971										
				BHP	8.23	8.25	8.24	8.17										
4 BLADES "E" Prop	TB-48E432	1 1/2	520	82	CFM	23604	20888	17559										
					BHP	1.29	1.43	1.50										
	TB-48E428	1 1/2	559	83	CFM	23045	20614	17625										
					BHP	1.26	1.42	1.50										
	TB-48E420	1 1/2	674	89	CFM	20935	18887	16335	13357									
					BHP	1.25	1.38	1.47	1.49									
	TB-48E432	2	572	86	CFM	25965	23515	20824	15748									
					BHP	1.72	1.88	1.98	1.88									
	TB-48E428	2	615	84	CFM	25353	23180	20618										
					BHP	1.68	1.87	1.98										

NOTES:

1. Performance certified is for installation Type B: Free inlet, ducted outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB - Die Cast Aluminum Propeller

MODEL INFO			MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE		
SIZE	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500	
48	4 BLADES "E" Prop	Outlet Area: 12.90 ft²														FEG71		
		TB-48E420	2	742	92	CFM	23047	21218	19026	16455	13536							
						BHP	1.67	1.82	1.93	2.00	1.97							
		TB-48E432	3	655	87	CFM	29732	27616	25383	22709								
						BHP	2.58	2.77	2.92	3.00								
		TB-48E428	3	704	88	CFM	29022	27156	25062	22641								
						BHP	2.52	2.74	2.90	2.99								
		TB-48E420	3	849	95	CFM	26371	24800	23022	20957	18655	16196						
						BHP	2.50	2.67	2.82	2.92	2.99	2.96						
		TB-48E432	5	776	93	CFM	35225	33455	31599	29696	27465	24305						
						BHP	4.29	4.53	4.73	4.87	4.97	4.96						
		TB-48E428	5	835	93	CFM	34423	32873	31200	29371	27326	25051						
						BHP	4.20	4.48	4.70	4.87	4.98	5.00						
		TB-48E420	5	1006	100	CFM	31247	29943	28530	26962	25216	23336	21331	19237				
						BHP	4.16	4.37	4.56	4.71	4.83	4.94	4.98	4.93				
		TB-48E432	7 1/2	888	97	CFM	40309	38771	37177	35533	33858	31951	29530	25813				
						BHP	6.43	6.71	6.95	7.15	7.31	7.43	7.49	7.24				
		TB-48E428	7 1/2	955	97	CFM	39370	38026	36605	35091	33464	31690	29793	27413				
BHP	6.29					6.61	6.89	7.12	7.30	7.42	7.48	7.45						
TB-48E420	7 1/2	1153	104	CFM	35813	34685	33489	32212	30816	29299	27703	25998	24241	20103				
				BHP	6.26	6.51	6.73	6.94	7.11	7.25	7.37	7.47	7.50	7.34				
TB-48E432	10	977	99	CFM	44349	42955	41520	40040	38542	37000	35255	33133	30349					
				BHP	8.56	8.87	9.15	9.39	9.60	9.76	9.89	9.97	9.88					
TB-48E428	10	1052	100	CFM	43369	42155	40885	39549	38138	36637	35022	33314	31426					
				BHP	8.41	8.76	9.08	9.36	9.60	9.78	9.92	9.99	10.00					
TB-48E420	10	1269	107	CFM	39416	38397	37327	36201	35004	33710	32327	30889	29368	26186	22427			
				BHP	8.35	8.62	8.87	9.11	9.32	9.50	9.65	9.79	9.92	9.99	9.80			
54	6 BLADES "B" Prop	Outlet Area: 16.28 ft²														FEG63		
		54B40620	1 1/2	571	88	CFM	26230	23584	20469									
						BHP	1.46	1.57	1.64									
		54B40625	1 1/2	518	83	CFM	27880	24679	20929									
						BHP	1.53	1.62	1.66									
		54B40630	1 1/2	473	82	CFM	28364	24550										
						BHP	1.61	1.66										
		54B40620	2	628	90	CFM	28848	26479	23747									
						BHP	1.94	2.07	2.16									
		54B40625	2	570	84	CFM	30679	27821	24497									
						BHP	2.04	2.15	2.19									
		54B40630	2	520	84	CFM	31183	27794										
						BHP	2.14	2.20										
		54B40620	3	719	93	CFM	33029	30993	28725	26218								
						BHP	2.91	3.06	3.18	3.26								
		54B40625	3	652	88	CFM	35093	32640	29868	26864								
						BHP	3.05	3.18	3.26	3.30								
		54B40630	3	595	88	CFM	35680	32790	29407									
BHP	3.21					3.28	3.30											
54B40620	5	852	98	CFM	39138	37445	35624	33647	31531	29320								
				BHP	4.83	5.02	5.19	5.31	5.41	5.50								
54B40625	5	773	92	CFM	41605	39570	37359	34941	32402									
				BHP	5.08	5.25	5.37	5.44	5.49									
54B40630	5	706	92	CFM	42337	39950	37297	34335										
				BHP	5.36	5.45	5.50	5.51										

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB - Die Cast Aluminum Propeller

SIZE	MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)										FAN EFF. GRADE			
	NO. OF BLADES	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250		1.500		
60	6 "C" Prop	Outlet Area: 20.04 ft ²														FEG67			
		TB-60C625	2	392	80	CFM	34877	29367											
						BHP	1.88	1.99											
		TB-60C620	2	427	82	CFM	34113	29413	23681										
						BHP	1.78	1.94	1.97										
		TB-60C610	2	537	86	CFM	31534	27838	23488	18010									
						BHP	1.61	1.82	1.97	1.97									
		TB-60C625	3	449	84	CFM	39948	35284	29781										
						BHP	2.82	2.97	2.98										
		TB-60C620	3	489	87	CFM	39066	34930	30718										
						BHP	2.68	2.86	2.99										
		TB-60C610	3	615	90	CFM	36115	32939	29397	25259	20217								
						BHP	2.41	2.66	2.87	2.99	2.95								
		TB-60C625	5	532	90	CFM	47333	43495	39122	34292									
						BHP	4.69	4.88	4.99	4.94									
		TB-60C620	5	580	92	CFM	46336	42847	39432	35649	29733								
						BHP	4.47	4.69	4.88	5.00	4.84								
		TB-60C610	5	729	95	CFM	42809	40169	37330	34233	30744	26852	21659						
						BHP	4.02	4.32	4.59	4.81	4.96	4.98	4.80						
		TB-60C625	7 1/2	609	94	CFM	54183	50876	47248	43214	38922								
						BHP	7.03	7.27	7.43	7.49	7.39								
		TB-60C620	7 1/2	664	96	CFM	53047	49999	46965	44006	40553	35838							
						BHP	6.70	6.96	7.19	7.40	7.50	7.37							
		TB-60C610	7 1/2	835	99	CFM	49034	46748	44336	41776	39027	36006	32725	29078	24038				
						BHP	6.04	6.39	6.70	7.00	7.25	7.43	7.50	7.45	7.16				
		TB-60C625	10	670	96	CFM	59611	56627	53419	49905	46163	42073							
						BHP	9.36	9.63	9.83	9.95	9.96	9.80							
		TB-60C620	10	731	99	CFM	58400	55631	52863	50170	47398	44109	39801						
						BHP	8.94	9.23	9.49	9.74	9.94	10.00	9.86						
		TB-60C610	10	919	102	CFM	53966	51899	49739	47475	45090	42546	39791	36838	33670				
BHP	8.06					8.44	8.79	9.13	9.44	9.70	9.89	9.99	9.98						
TB-60C625	15	767	100	CFM	68241	65655	62928	60028	56910	53634	50302	46053							
				BHP	14.05	14.36	14.62	14.81	14.94	14.95	14.84	14.49							
TB-60C620	15	837	103	CFM	66868	64450	62032	59621	57289	54895	52174	49048	44884						
				BHP	13.42	13.76	14.07	14.36	14.64	14.87	15.00	14.98	14.74						
TB-60C610	15	955	103	CFM	56080	54094	52026	49867	47605	45214	42648	39892	36974	29810					
				BHP	9.04	9.44	9.81	10.16	10.49	10.78	11.01	11.17	11.22	10.94					
TB-60C625	20	845	103	CFM	75180	72844	70405	67849	65142	62273	59292	56306	52875						
				BHP	18.78	19.13	19.43	19.68	19.87	19.99	20.00	19.90	19.64						
TB-60C620	20	921	105	CFM	73579	71381	69184	66987	64818	62707	60526	58099	55393	47721					
				BHP	17.88	18.26	18.61	18.93	19.24	19.54	19.81	19.97	20.00	19.43					
TB-60C625	25	910	104	CFM	80964	78801	76557	74222	71782	69208	66512	63739	60974	54001					
				BHP	23.46	23.84	24.17	24.46	24.69	24.87	24.97	24.97	24.87	24.10					
TB-60C620	25	955	106	CFM	76295	74176	72057	69938	67830	65788	63728	61521	59045	52980					
				BHP	19.94	20.33	20.69	21.03	21.36	21.67	21.97	22.19	22.30	22.07					

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB / TBSH – Fabricated Steel Propeller

MODEL INFO		MOTOR HP	FAN RPM	LwiA		STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE
SIZE	CATALOG NUMBER					0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500	
		Outlet Area: 7.27 ft²															
36	TB-36Z545	3/4	561	80	CFM	12962	10939										FEG71
					BHP	0.71	0.75										
	TB-36Z535	3/4	668	83	CFM	11993	10826	9217									
					BHP	0.63	0.70	0.74									
	TB-36Z545	1	617	83	CFM	14256	12535										
					BHP	0.94	0.99										
	TB-36Z535	1	735	84	CFM	13196	12160	10804	9003								
					BHP	0.84	0.92	0.97	1.00								
	TB-36Z545	1½	707	86	CFM	16335	14919	12742									
					BHP	1.42	1.48	1.49									
	TB-36Z535	1½	842	90	CFM	15117	14235	13183	11862								
					BHP	1.26	1.35	1.43	1.48								
	TB-36Z545	2	778	89	CFM	17976	16724	15008									
					BHP	1.89	1.96	2.00									
	TB-36Z535	2	926	92	CFM	16625	15834	14931	13826	12576							
					BHP	1.68	1.78	1.87	1.93	1.98							
	TB-36Z545	3	890	93	CFM	20563	19499	18203	16401								
					BHP	2.83	2.91	2.97	2.99								
TB-36Z535	3	1060	94	CFM	19031	18350	17601	16754	15753	14665	13410						
				BHP	2.52	2.64	2.74	2.83	2.90	2.96	3.00						
TB-36Z545	5	1056	97	CFM	24399	23524	22534	21361	19852	17929							
				BHP	4.73	4.82	4.90	4.97	5.00	4.88							
TB-36Z535	5	1257	99	CFM	22568	22001	21396	20746	20036	19230	18339	17420	16431				
				BHP	4.20	4.34	4.47	4.60	4.71	4.79	4.86	4.93	4.99				
TB-36Z545	7½	1208	101	CFM	27911	27156	26331	25413	24350	23053	21510						
				BHP	7.09	7.19	7.29	7.37	7.44	7.49	7.42						
		Outlet Area: 9.85 ft²															
42	TB-42Z545	1	448	79	CFM	17696	15262										FEG71
					BHP	0.92	0.99										
	TB-42Z530	1	593	84	CFM	15342	14089	12275									
					BHP	0.78	0.88	0.97									
	TB-42Z545	1½	512	82	CFM	20225	18208										
					BHP	1.38	1.46										
	TB-42Z530	1½	679	88	CFM	17567	16508	15149	13431								
					BHP	1.17	1.28	1.40	1.48								
	TB-42Z545	2	564	85	CFM	22279	20499	18085									
					BHP	1.84	1.94	2.00									
	TB-42Z530	2	746	91	CFM	19301	18352	17224	15705	14171							
					BHP	1.56	1.68	1.80	1.92	1.98							
	TB-42Z545	3	645	88	CFM	25478	23966	22126	19515								
					BHP	2.75	2.87	2.96	2.97								
	TB-42Z530	3	855	95	CFM	22121	21308	20392	19297	17917	16026	14814					
					BHP	2.34	2.48	2.62	2.76	2.90	2.99	2.99					
	TB-42Z545	5	765	92	CFM	30218	28974	27564	25910	23741							
					BHP	4.59	4.73	4.86	4.96	4.99							
TB-42Z530	5	1014	99	CFM	26234	25560	24830	24027	23113	21518	20816	19715	18423				
				BHP	3.91	4.07	4.24	4.40	4.57	4.81	4.88	4.96	5.00				
TB-42Z545	7½	875	95	CFM	34563	33490	32316	31007	29514	26769							
				BHP	6.87	7.03	7.18	7.31	7.43	7.44							
TB-42Z530	7½	1137	102	CFM	29416	28820	28185	27505	26768	25571	24968	23904	22891	20742			
				BHP	5.51	5.69	5.88	6.06	6.24	6.51	6.63	6.81	6.93	7.05			
TB-42Z545	10	963	97	CFM	38039	37071	36031	34901	33654	31623	30562						
				BHP	9.16	9.34	9.51	9.66	9.80	9.96	9.98						

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

TB / TBSH – Fabricated Steel Propeller

MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE	
SIZE	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500		
		Outlet Area: 12.90 ft²															
48	TB-48Z545	1½	438	82	CFM	23988	20639										
					BHP	1.42	1.50										
	TB-48Z535	1½	521	86	CFM	22172	20198	17521									
					BHP	1.26	1.39	1.47									
	TB-48Z545	2	482	85	CFM	26398	23522										
					BHP	1.90	1.98										
	TB-48Z535	2	573	86	CFM	24385	22628	20389	17607								
					BHP	1.68	1.82	1.93	1.99								
	TB-48Z545	3	551	88	CFM	30177	27782	24270									
					BHP	2.83	2.94	2.99									
	TB-48Z535	3	656	89	CFM	27917	26417	24663	22463	19952							
					BHP	2.52	2.68	2.83	2.92	2.99							
	TB-48Z545	5	653	93	CFM	35764	33821	31421	28027								
					BHP	4.72	4.85	4.95	4.96								
TB-48Z535	5	802	95	CFM	34131	32931	31615	30134	28385	26472	24337						
				BHP	4.60	4.81	5.00	5.17	5.29	5.39	5.47						
TB-48Z545	7½	748	96	CFM	40966	39307	37393	35022	31886								
				BHP	7.09	7.24	7.37	7.47	7.44								
TB-48Z535	7½	891	99	CFM	37918	36847	35696	34444	33039	31429	29705	27902					
				BHP	6.30	6.54	6.76	6.96	7.13	7.26	7.37	7.48					
TB-48Z545	10	823	99	CFM	45074	43582	41915	39985	37576	34579							
				BHP	9.44	9.61	9.76	9.88	9.98	9.88							
TB-48Z535	10	981	102	CFM	41748	40782	39757	38663	37483	36167	34697	33134	31549				
				BHP	8.41	8.67	8.92	9.15	9.36	9.54	9.68	9.80	9.93				
		Outlet Area: 16.28 ft²															
54	TB-54Z545	1½	330	78	CFM	28249	23759										
					BHP	1.39	1.49										
	TB-54Z530	1½	435	84	CFM	24568	22084	19091									
					BHP	1.20	1.35	1.48									
	TB-54Z545	2	363	81	CFM	31074	27032										
					BHP	1.85	1.97										
	TB-54Z530	2	478	87	CFM	26996	24768	22206	18877								
					BHP	1.59	1.76	1.91	2.00								
	TB-54Z545	3	416	84	CFM	35611	32120	27904									
					BHP	2.78	2.93	2.99									
	TB-54Z530	3	547	90	CFM	30893	28975	26857	24436	21285							
					BHP	2.38	2.58	2.76	2.92	3.00							
	TB-54Z545	5	493	88	CFM	42202	39311	36235	31711								
					BHP	4.63	4.82	4.95	4.91								
	TB-54Z530	5	649	95	CFM	36654	35059	33352	31515	29485	27185						
					BHP	3.98	4.21	4.43	4.65	4.85	4.98						
	TB-54Z545	7½	564	93	CFM	48280	45779	43105	40374								
					BHP	6.94	7.16	7.33	7.46								
	TB-54Z530	7½	742	98	CFM	41907	40522	39066	37527	35899	34140	32204	29962				
					BHP	5.95	6.21	6.47	6.72	6.97	7.20	7.37	7.48				
TB-54Z545	10	621	95	CFM	53159	50901	48514	46067	43402								
				BHP	9.26	9.51	9.72	9.88	9.97								
TB-54Z530	10	817	100	CFM	46143	44890	43586	42223	40795	39296	37694	35954	34067				
				BHP	7.95	8.23	8.52	8.79	9.07	9.34	9.59	9.80	9.94				
TB-54Z545	15	711	98	CFM	60864	58904	56861	54726	52600	50332	47009						
				BHP	13.90	14.19	14.45	14.66	14.84	14.96	14.85						
TB-54Z530	15	884	103	CFM	49927	48773	47578	46339	45051	43710	42310	40823	39223	35550			
				BHP	10.07	10.38	10.68	10.99	11.28	11.58	11.87	12.15	12.37	12.65			

NOTES:

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4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.

PERFORMANCE DATA

TB / TBSH – Fabricated Steel Propeller

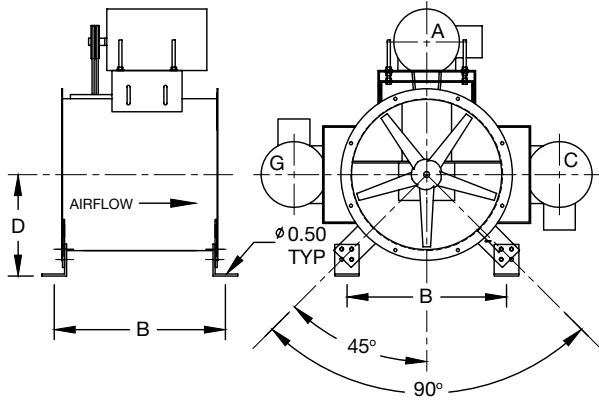
MODEL INFO		MOTOR HP	FAN RPM	LwiA	STATIC PRESSURE (IN. W.G.)											FAN EFF. GRADE	
SIZE	CATALOG NUMBER				0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500		
		Outlet Area: 20.04 ft ²															
60	TB-60Z545	2	321	81	CFM	35565	30193										
					BHP	1.85	1.98										
	TB-60Z530	2	426	85	CFM	31144	28423	24566									
					BHP	1.63	1.80	1.96									
	TB-60Z545	3	368	84	CFM	40772	36414										
					BHP	2.79	2.95										
	TB-60Z530	3	488	89	CFM	35676	33377	30431	26761								
					BHP	2.45	2.64	2.84	2.98								
	TB-60Z545	5	436	89	CFM	48306	44818	40152									
					BHP	4.65	4.84	4.98									
	TB-60Z530	5	579	94	CFM	42329	40444	38276	35547	32452	28838						
					BHP	4.09	4.32	4.55	4.79	4.95	4.99						
	TB-60Z545	7½	499	93	CFM	55286	52320	48739	43865								
					BHP	6.96	7.19	7.38	7.46								
	TB-60Z530	7½	663	98	CFM	48470	46848	45057	43021	40525	37817	35000	30977				
					BHP	6.15	6.41	6.67	6.93	7.20	7.40	7.49	7.43				
	TB-60Z545	10	549	95	CFM	60825	58168	55098	51319	46169							
					BHP	9.27	9.53	9.75	9.93	9.83							
	TB-60Z530	10	729	100	CFM	53295	51832	50248	48508	46515	44154	41691	39183	36033			
					BHP	8.17	8.46	8.75	9.03	9.33	9.62	9.84	9.94	9.95			
TB-60Z545	15	629	99	CFM	69689	67405	64876	61999	58561	54182							
				BHP	13.95	14.24	14.51	14.74	14.94	14.88							
TB-60Z530	15	796	103	CFM	58193	56861	55440	53910	52239	50319	48124	45864	43609	37582			
				BHP	10.64	10.95	112.6	11.58	11.89	12.22	12.54	12.78	12.92	12.88			
TB-60Z545	20	693	101	CFM	76780	74724	72495	70040	67268	64009	60000						
				BHP	18.65	18.98	19.29	19.56	19.80	20.00	19.92						
TB-60Z545	25	746	103	CFM	82652	80752	78719	76518	74100	71375	68206	64396					
				BHP	23.27	23.62	23.96	24.27	25.54	24.80	24.97	24.84					

NOTES:

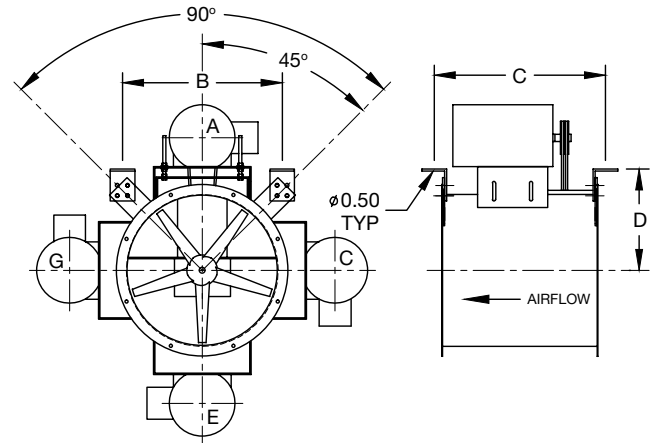
1. Performance certified is for installation Type B: Free inlet, ducted outlet.
2. Power rating (BHP) does not include transmission losses.
3. Performance ratings do not include the effects of appurtenances (accessories).
4. The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301.
5. Values shown are for inlet LwiA sound power levels for installation Type B: Free inlet, ducted outlet. Ratings do not include the effects of end correction.
6. Sound power values shown are at the peak cataloged pressure for each RPM.



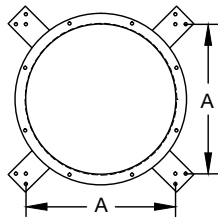
Mounting Brackets



HORIZONTAL BASE MOUNT (HBM)
VERTICAL FLOOR



HORIZONTAL CEILING HUNG (HCH)
VERTICAL CEILING



VERTICAL MOUNT (VUI, VUO, VDI, VDO)
TOP VIEW

FAN SIZE	A	B	C	D
14	15.35	16.60	21.34	10.93
16	16.68	17.93	21.34	11.59
18	18.18	19.43	21.34	12.34
21	20.30	21.55	23.03	13.40
24	22.42	23.67	23.03	14.46
30	26.75	28.00	28.34	18.63
36	31.13	32.38	29.28	22.81
42	35.55	36.80	33.28	25.03
48	39.70	40.95	37.28	28.60
54	43.94	45.20	42.28	30.72
60	48.18	49.43	42.28	34.34

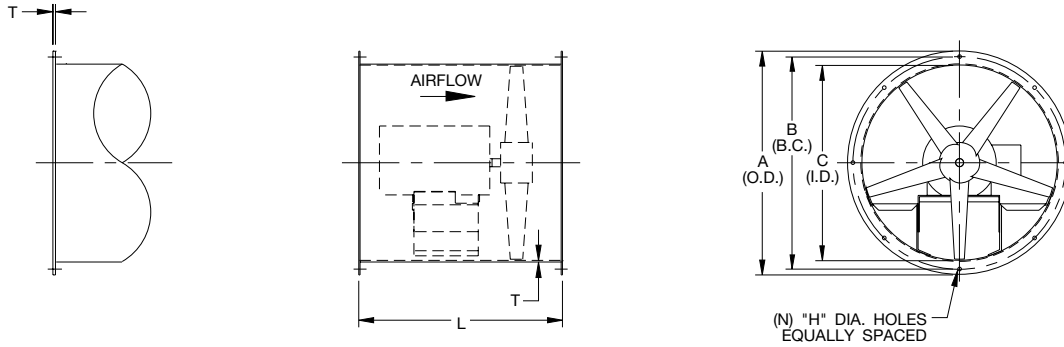
30013101F



Fan & Blower
Twin City

DIMENSIONAL DATA

Direct Drive – TD

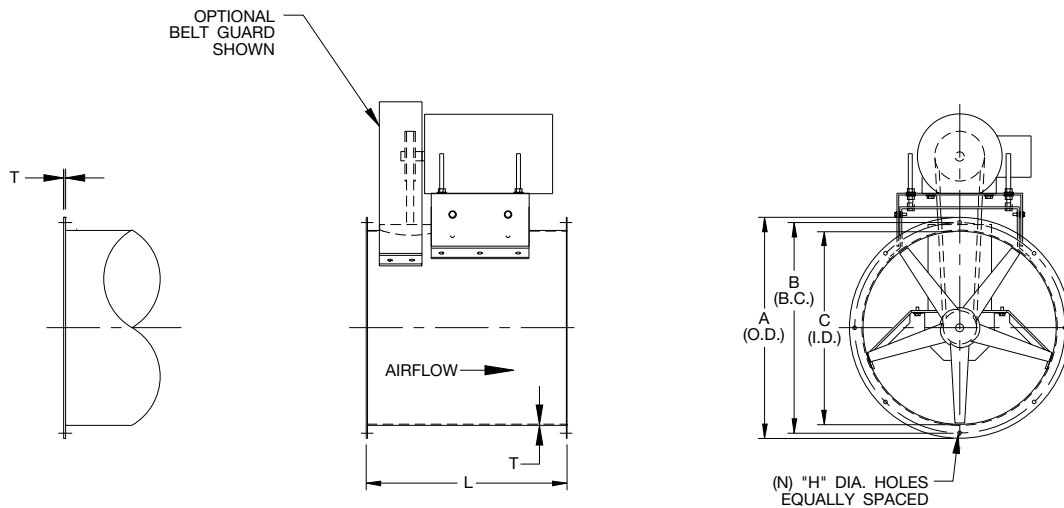


SIZE	A	B	C	H	L	N	T	MAX. HP	MAX. FRAME
14	16 ⁷ / ₈	15 ⁷ / ₈	14 ¹ / ₄	⁹ / ₁₆	19	8	14 GA.	³ / ₄	56
16	19 ⁵ / ₈	17 ⁷ / ₈	16 ¹ / ₈	⁹ / ₁₆	19	8	14 GA.	1	143T
18	21 ³ / ₄	19 ⁷ / ₈	18 ¹ / ₄	⁹ / ₁₆	19	8	14 GA.	1	145T
21	24 ³ / ₄	22 ⁷ / ₈	21 ¹ / ₄	⁹ / ₁₆	21	8	14 GA.	1 ¹ / ₂	145T
24	27 ³ / ₄	25 ⁷ / ₈	24 ¹ / ₄	⁹ / ₁₆	21	8	14 GA.	3	184T
30	33 ⁷ / ₈	32	30 ³ / ₈	⁹ / ₁₆	26	8	12 GA.	5	184T
36	40 ¹ / ₂	38 ³ / ₈	36 ¹ / ₂	⁹ / ₁₆	27	16	12 GA.	10	215T
42	46 ³ / ₄	44 ⁵ / ₈	42 ³ / ₄	¹¹ / ₁₆	31	16	12 GA.	10	256T
48	52 ⁵ / ₈	50 ⁵ / ₈	48 ⁵ / ₈	¹¹ / ₁₆	35	16	12 GA.	10	256T

Dimensions shown are in inches unless otherwise indicated.
Dimensions are not to be used for construction.

D4830-2D

Belt Driven – TB



SIZE	A	B	C	H	L	N	T	SHAFT SIZE	MAX. HP	MAX. FRAME
14	16 ⁷ / ₈	15 ⁷ / ₈	14 ¹ / ₄	⁹ / ₁₆	19	8	14 GA.	³ / ₄	³ / ₄	56
16	19 ⁵ / ₈	17 ⁷ / ₈	16 ¹ / ₈	⁹ / ₁₆	19	8	14 GA.	³ / ₄	1	143T
18	21 ³ / ₄	19 ⁷ / ₈	18 ¹ / ₄	⁹ / ₁₆	19	8	14 GA.	³ / ₄	1 ¹ / ₂	145T
21	24 ³ / ₄	22 ⁷ / ₈	21 ¹ / ₄	⁹ / ₁₆	20 ¹¹ / ₁₆	8	14 GA.	³ / ₄	2	145T
24	27 ³ / ₄	25 ⁷ / ₈	24 ¹ / ₄	⁹ / ₁₆	20 ¹¹ / ₁₆	8	14 GA.	1	3	184T
30	33 ⁷ / ₈	32	30 ³ / ₈	⁹ / ₁₆	26	8	12 GA.	1	5	213T
36	40 ¹ / ₂	38 ³ / ₈	36 ¹ / ₂	⁹ / ₁₆	27	16	12 GA.	1 ³ / ₁₆	7 ¹ / ₂	215T
42	46 ³ / ₄	44 ⁵ / ₈	42 ³ / ₄	¹¹ / ₁₆	31	16	12 GA.	1 ⁷ / ₁₆	10	215T
48	52 ⁵ / ₈	50 ⁵ / ₈	48 ⁵ / ₈	¹¹ / ₁₆	35	16	12 GA.	1 ⁷ / ₁₆	10	254T
54	58 ⁵ / ₈	57 ¹ / ₄	54 ⁵ / ₈	¹¹ / ₁₆	40	16	12 GA.	1 ⁷ / ₁₆	15	256T
60	64 ⁵ / ₈	63 ¹ / ₄	60 ⁵ / ₈	¹¹ / ₁₆	40	16	10 GA.	1 ¹¹ / ₁₆	25	284T

Dimensions shown are in inches unless otherwise indicated.
Dimensions are not to be used for construction.

D4830-1E

TYPICAL SPECIFICATIONS

Model

TD



Tubeaxial fans shall be Model TD direct drive as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Fans shall be tested in accordance with AMCA 210 and AMCA 300 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air.

CONSTRUCTION — Housings shall be constructed of heavy gauge, continuously welded steel to prevent air leakage. Housings shall include punched inlet and outlet flanges for duct mounting. Motor supports shall be constructed of heavy-gauge steel and shall be suitably braced to prevent vibration or pulsation.

PROPELLERS — Propellers shall be constructed of cast aluminum blades and hubs. Propellers shall be secured to the motor shaft with a taperlock bushing.

MOTORS — All motors shall be split phase and capacitor start single phase or three phase induction, permanently lubricated, heavy-duty, ball bearing type, closely matched to the fan load and provided at the voltage, phase, hertz, and enclosure as provided on the fan schedule.

FINISH AND COATING — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. Aluminum components shall be unpainted.

ACCESSORIES — When specified, accessories such as shaft seals, inlet bells, inlet and outlet guards, mounting brackets, vibration isolators and disconnect switches shall be provided by Twin City Fan to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each propeller shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its TD tubeaxial fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.



TYPICAL SPECIFICATIONS



Model
TB

Tubeaxial fans shall be Model TB belt driven as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Fans shall be tested in accordance with AMCA 210 and AMCA 300 test codes for air moving devices and shall be guaranteed by the manufacturer to deliver rated published performance levels. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air.

CONSTRUCTION — Housings shall be constructed of heavy gauge, continuously welded steel to prevent air leakage. Housings shall include punched inlet and outlet flanges for duct mounting. Motor and bearing supports shall be constructed of heavy-gauge steel and shall be suitably braced to prevent vibration or pulsation.

PROPELLERS — Propellers shall be constructed of fabricated steel or cast aluminum blades and hubs. Propellers shall be secured to the fan shaft with a taperlock bushing.

SHAFTS — Shafts shall be AISI 1045 cold rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed.

BEARINGS — Bearings are to be pillow block, heavy-duty, anti-friction, self-aligning, grease lubricated, ball type. Each fan's bearings are sized with a minimum average life, per AFBMA, in excess of 200,000 hours when operating at the maximum RPM of the fan size.

DRIVES — Motor sheaves shall be cast iron, and supplied as either variable pitch or fixed pitch. Drives and belts shall be rated for a minimum of 150% of the required motor HP.

MOTORS — All motors shall be single phase or three phase induction, permanently lubricated, heavy-duty, ball bearing type, closely matched to the fan load and provided at the voltage, phase, hertz, and enclosure as provided on the fan schedule.

FINISH AND COATING — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant. Aluminum components shall be unpainted.

ACCESSORIES — When specified, accessories such as belt guards, motor covers, shaft seals, inlet bells, inlet and outlet guards, mounting brackets, vibration isolators and disconnect switches shall be provided by Twin City Fan to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each propeller shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its TB tubeaxial fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

TYPICAL SPECIFICATIONS

Model

TBSH



Smoke & Heat Tubeaxial fans shall be Type TBSH belt driven as manufactured by Twin City Fan & Blower, Minneapolis, Minnesota.

PERFORMANCE — Performance ratings shall conform to AMCA Standard 205 (fan efficiency grade), 211 (air performance) and 311 (sound performance). Fans shall be tested in accordance with ANSI/AMCA Standard 210 (air performance) and 300 (sound performance) in an AMCA accredited laboratory. Fans shall be licensed to bear the AMCA certified ratings seal for both sound and air, and fan efficiency grade (FEG).

Model TBSH shall be UL listed for Smoke Control Systems (500°F for 4 hours and 1000°F for 15 minutes). Fans shall bear a permanently attached nameplate displaying model and serial number of the unit for future identification.

CONSTRUCTION — Housings shall be constructed of heavy gauge, continuously welded steel to prevent air leakage. Housings shall include punched inlet and outlet flanges for duct mounting. Motor and bearing supports shall be constructed of heavy-gauge steel and shall be suitably braced to prevent vibration or pulsation. Fans shall be capable operating continuously at 200 F to 500 F.

PROPELLERS — Propellers shall be constructed of fabricated steel blades and hubs. Propellers shall be secured to the fan shaft with a taperlock bushing and keeper plate.

SHAFTS — Shafts shall be AISI 1045 cold rolled steel, accurately turned, ground, polished, and ring gauged for accuracy. Shafts shall be sized for the first critical speed of at least 1.43 times the maximum speed.

BEARINGS — Bearings are to be pillow block, heavy-duty, anti-friction, self-aligning, grease lubricated, ball type. Each fan's bearings are sized with a minimum average life, per AFBMA, in excess of 200,000 hours when operating at the maximum RPM of the fan size.

DRIVES — Motor sheaves shall be cast iron, and supplied as either variable pitch or fixed pitch. Drives and belts shall be rated for a minimum of 200% of the required motor HP and shall be two-groove minimum.

MOTORS — All motors shall be single phase or three phase induction, permanently lubricated, heavy-duty, ball bearing type, closely matched to the fan load and provided at the voltage, phase, hertz, and enclosure as provided on the fan schedule.

FINISH AND COATING — The entire fan assembly, excluding the shaft, shall be thoroughly degreased and deburred before application of a rust-preventative primer. After the fan is completely assembled, a finish coat of paint shall be applied to the entire assembly. The fan shaft shall be coated with a petroleum-based rust protectant. Aluminum components shall be unpainted.

ACCESSORIES — When specified, accessories such as belt guards, motor covers, inlet bells, inlet and outlet guards, mounting brackets, vibration isolators and disconnect switches shall be provided by Twin City Fan to maintain one source responsibility.

FACTORY RUN TEST — All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each propeller shall be statically and dynamically balanced in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings shall be taken by electronic type equipment in the axial, vertical, and horizontal directions on each of the bearings. Records shall be maintained and a written copy shall be available upon request.

GUARANTEE — The manufacturer shall guarantee the workmanship and materials for its TBSH smoke & heat tubeaxial fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

INDUSTRIAL & COMMERCIAL FANS

Centrifugal Fans | Utility Sets | Plenum & Plug Fans | Inline Centrifugal Fans
Mixed Flow Fans | Tubeaxial & Vaneaxial Fans | Propeller Wall Fans | Propeller Roof Ventilators
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Radial Bladed Fans | Radial Tip Fans | High Efficiency Industrial Fans | Pressure Blowers
Laboratory Exhaust Fans | Filtered Supply Fans | Mancoolers | Fiberglass Fans | Custom Fans



Fan & Blower
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