



DELTA "T" SYSTEMS, INC.

858 WEST 13TH COURT

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www.deltatsystems.com

AC Axial Fans



Design & Construction — Axial Ventilation Fans produced by Delta "T" Systems are specifically designed and built for the rigors of the marine environment — not adapted from other industries. Flanged housings of welded marine grade aluminum provide light weight and excellent corrosion resistance. Major assembly hardware is corrosion resistant stainless steel for long life. An external junction box mounted on the housing exterior is provided for electrical connections.

Motors — High efficiency three phase and single phase direct drive motors are utilized to provide quiet continuous duty service. Our motors use an aluminum frame and multi-point "spider" or "pad" mounting for corrosion resistance, light weight and enhanced air flow characteristics. Available with "CE" Classification, 50 or 60 HZ, and optional I-EEE-45 Certification, these motors are designed for worldwide applications and can be provided in nearly any voltage configuration. Standard motor sizes from 1/4 HP (.19 kW) to 30 HP (23.4 kW) are available.

Fan Hubs & Blades — Corrosion resistant aluminum hubs are secured directly to the motor shaft using multiple locking methods for enhanced safety and

composite and are pitch adjustable to allow for a wide range of flows and duties. The high performance airfoil blade shape provides for exceptional flow characteristics and low sound levels. All fans are tested in accordance with AMCA Standard 210. Axial Ventilation Fans have a non-overloading characteristic; the peak power input occurs within the range of normal operating pressures and is always exceeded by the motor rating.

Finish — Aluminum housings are provided "mill finish" without paint, or powder coated in any color.

Standard Sizes — Our premium series fans range in size from 12" (305 mm) ID to 60" (1524 mm) ID.

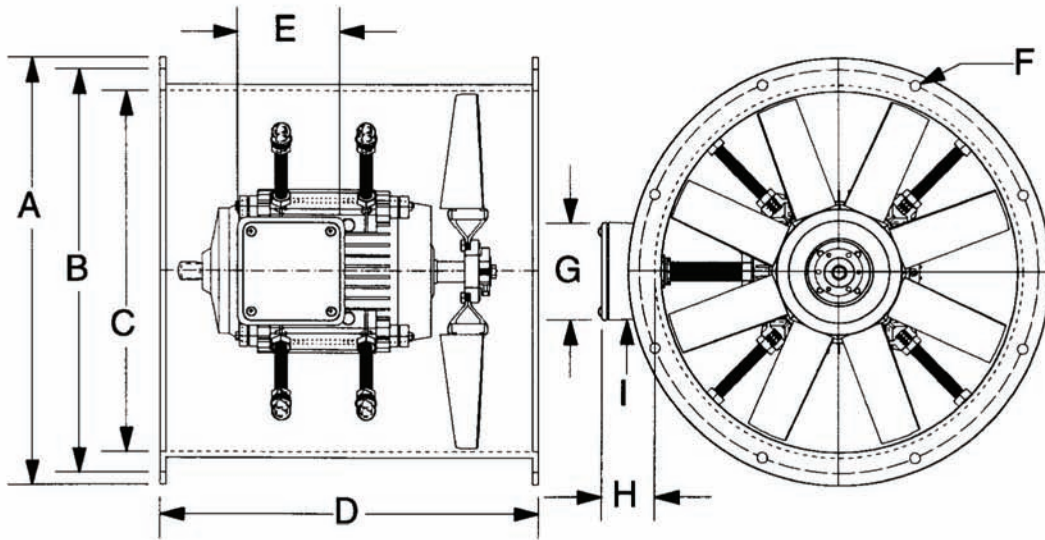
Standard Flows — Ranging from 875 CFM (42 m³/Min) to 100,000+ CFM (1642.4+ m³/Min), Delta "T" Systems Axial Ventilation Fans can be configured to your exacting specifications.

Custom Sizes — Can't source a fan in time or need a drop in replacement for an existing fan? Need a larger flow or diameter than the standard sizes? Just provide us with your requirements and housing dimensions and Delta "T" Systems will build your fan using the same high quality marine components as our premium series.



Delta "T" Systems

Standard Dimensions

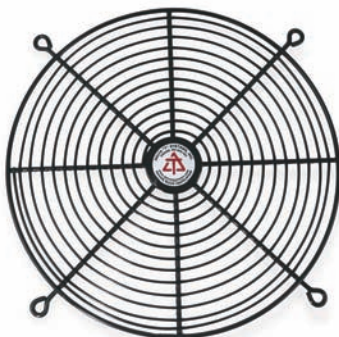


Fan Size	A OD	B Bolt Circle	C ID	D Length	E	F Bolt Holes	G	H	I NPT
12 in. 304.8 mm	14 3/4 in. 374.7 mm	13 3/4 in. 349.3 mm	12 in. 304.8 mm	16 in. 406.4 mm	4 3/16 in. 106.4 mm	8 x 3/8 in. 8 x 9.5 mm	5.5 in. 139.7 mm	3 1/16 in. 77.8 mm	3/4 in.
15 in. 381 mm	17 3/4 in. 450.9 mm	16 3/4 in. 425.5 mm	15 in. 381 mm	16 in. 406.4 mm	4 3/16 in. 106.4 mm	8 x 7/16 in. 8 x 11 mm	5.5 in. 139.7 mm	3 1/16 in. 77.8 mm	3/4 in.
19 in. 482.6 mm	21 3/4 in. 552.5 mm	20 3/4 in. 527 mm	19 in. 482.6 mm	16 in. 406.4 mm	4 13/16 in. 122.2 mm	8 x 9/16 in. 8 x 14.3 mm	6.5 in. 165 mm	3 1/4 in. 82.5 mm	3/4 in.
21 in. 533.4 mm	23 3/4 in. 603.3 mm	22 3/4 in. 577.9 mm	21 in. 533.4 mm	18 in. 457 mm	4 13/16 in. 122.2 mm	12 x 9/16 in. 12 x 14.3 mm	6.5 in. 165 mm	3 1/4 in. 82.5 mm	3/4 in.
24 in. 609.6 mm	26 3/4 in. 679.5 mm	25 3/4 in. 654 mm	24 in. 609.6 mm	18 in. 457 mm	4 13/16 in. 122.2 mm	12 x 9/16 in. 12 x 14.3 mm	6.5 in. 165 mm	3 1/4 in. 82.5 mm	3/4 in.
30 in. 762 mm	33 3/4 in. 857.25 mm	32 5/16 in. 820.7 mm	30 in. 762 mm	28 in. 711.2 mm	5 3/8 in. 136.5 mm	16 x 9/16 in. 16 x 14.2 mm	7 13/16 in. 198.4 mm	4 1/4 in. 107.9 mm	1 in. 25.4 mm
36 in. 914.4 mm	39 3/4 in. 1009.6 mm	38 in. 965.2 mm	36 in. 914.4 mm	28 in. 711.2 mm	5 3/8 in. 136.5 mm	16 x 9/16 in. 16 x 14.2 mm	7 13/16 in. 198.4 mm	4 1/4 in. 107.9 mm	1 in. 25.4 mm

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Delta "T" Systems' Premium Series Axial Fans are available in standard and custom sizes from 12 to 60 inches in diameter. Performance requirements are achieved by engineering the optimum motor size and type, along with the proper blade type and pitch.

Fan Guards



Delta "T" Systems' fan guards are available in all standard sizes. The welded steel construction is plastic dipped for completely sealed protection from the elements.

Fan guards are a highly recommended option on Delta "T" Systems' high-output axial fans in order to prevent debris and other foreign matter from entering the fan.



Delta "T" Systems

HARTZELL					
SERIES 44 MDA					
Rated @ 70°F					
Size (Actual)	HP	Part #	CFM	Weight	Comments
12 (13")	3/4	DG2	2,370	105	
16 (17")	3	DK2	5,830	202	
18 (19")	5	DL2	7,660	260	
24 (25")	3	DK3	9,219	349	
28 (29")	5	DL3	14,913	457	
32 (33")	10	DN3	22,046	669	
36 (37")	20	DP3	31,014	850	
40 (41")	10	DN4	27,640	760	
44 (45")	15	DO4	37,380	874	
48 (49")	20	DP4	47,290	992	
54 (55")	40	DS4	67,400	1,320	Non-Stock
60 (61")	30	DR5	68,950	1,290	Non-Stock
Total Weight =				8,128	

DELTA "T" SYSTEMS, INC.					
MARINE AXIAL FANS					
Rated @ 85°F					
Actual Size	HP	Part #	CFM	Weight	Comments
12"	3/4	212363/35	2,460	44	
15"	3	215363/45	6,220	53	
19"	3	219363/30	7,700	61	
24"	3	224183/32.5	10,200	117	
30"	5	230183/30	16,900	141	
30"	10	230183/40	23,400	177	
36"	15	236183/37.5	33,100	299	
36"	10	236113/50	29,500	199	
40"	15	240113/50	39,700	340	
48"	15	248113/35	50,000	354	
54"	20	254113/37.5	70,000	448	Stock
54"	20	254113/37.5	70,000	448	Stock
Total Weight =				2,681	

COMBINED WEIGHT DIFFERENCE = 5,447 LBS. (HARTZELL IS OVER 300% HEAVIER)

FEATURES	ADVANTAGES	BENEFITS
Marine grade aluminum housing	Excellent corrosion resistance Lightweight Rolled Plate Construction	<ul style="list-style-type: none"> Won't rust - No maintenance costs Anodizing or powder coating is available as an option Excellent for weight control Easier/ safer to handle Rugged
Stainless Steel Hardware	Corrosion resistant	<ul style="list-style-type: none"> No maintenance costs Long life
External Junction Box	Ease in installation - Extended leads cut to any length Motor leads in air flow contained in conduit	<ul style="list-style-type: none"> Reduce labor costs
"Spider" or "Pad" mount to 15 HP	Strong- 8 point design Lightweight Improves air flow	<ul style="list-style-type: none"> Does not rely on welded joint (point of failure)
Foot mounts above 15 HP	Precision centering for ±1/8" tip clearance	<ul style="list-style-type: none"> Reduced drag means higher fan efficiency
EPAct Motors	High Efficiency Aluminum Housing TEAO or TEFC, IP 55 1.15 SF @40 C "CE" Classification and Universal connectivity	<ul style="list-style-type: none"> Reduced HP requirements Lightweight construction Suited for harsh environments Continuous Duty - 3 phase – 208-480 V - 50 or 60 HZ
Motor Approvals	NEMA, CSA, EEMAC Tested in accordance to IEEE 45 Method B	
Sealed Bearings	No lubrication required, greased for life	<ul style="list-style-type: none"> Reduced maintenance cost, reduced warranty risks and smooth quiet operation ±40,000 hour MTBF No source of bearing contamination
PPG Composite Propellers	Precision airfoil shape Non corrosive No balancing required	<ul style="list-style-type: none"> Higher efficiency and quiet operation No maintenance No balance weights means less bearing wear
Flexibility	Custom manufactured All fans inspected and TESTED before leaving factory Designed for specific application	<ul style="list-style-type: none"> Quick delivery – normally 3 weeks ARO or less Can configure "invisible" replacement of other brand fans bolt pattern Housings can be custom built (short case, special diameter) Saves money – you get only the fan YOU need
Engineering Services	Ensures proper ventilation within the machinery space and one source responsibility. Meets or exceeds manufacturers specifications.	<ul style="list-style-type: none"> No cost Reduce engine warranty risks and increase service life Ensures full power and Guaranteed results
Warranty		<ul style="list-style-type: none"> 24 months from commissioning



Delta "T" Systems



DELTA "T" SYSTEMS, INC.

TUBE AXIAL FAN RATINGS - 3 PHASE 60HZ

Size	Model Number	No. Of Blades	Motor BHP	Peak AHP	RPM	Free Air	FLOW IN CFM AT STATIC PRESSURE IN INCHES OF WATER																				
							.125 IN.	.25 IN.	.375 IN.	.5 IN.	.625 IN.	.75 IN.	.875 IN.	1 IN.	1.125 IN.	1.25 IN.	1.375 IN.	1.5 IN.	1.625 IN.	1.75 IN.							
12"	212183 - 25	8	0.25	0.06	1740	875	786	683																			
	212183 - 30	8	0.25	0.08	1740	1090	998	896	725																		
	212183 - 35	8	0.25	0.1	1740	1240	1150	1030	870																		
	212183 - 40	8	0.25	0.13	1740	1470	1340	1220	1040																		
	212183 - 45	8	0.25	0.17	1740	1660	1540	1400	1170																		
	212363 - 25	8	0.5	0.4	3450	1720	1690	1640	1590	1550	1500	1450	1390	1310	1220	1130											
	212363 - 30	8	0.75	0.6	3450	2150	2110	2060	2020	1960	1920	1860	1810	1750	1700	1620	1520	1310									
	212363 - 35	8	0.75	0.75	3450	2460	2420	2370	2330	2260	2190	2140	2080	2010	1960	1870	1800	1680	1540								
	212363 - 40	8	1	0.97	3450	2860	2830	2780	2710	2640	2560	2520	2540	2380	2320	2220	2120	1990	1860								
	212363 - 45	8	1.5	1.27	3450	3270	3210	3160	3100	3030	2970	2900	2830	2730	2640	2520	2410	2260	2130								
	15"	215183 - 25	10	0.25	0.19	1740	1600	1550	1450	1330	1100																
215183 - 30		10	0.33	0.26	1740	2000	1950	1860	1730	1540																	
215183 - 35		10	0.5	0.3	1740	2320	2270	2160	2010	1800																	
215183 - 40		10	0.5	0.38	1740	2690	2610	2490	2330	2110																	
215183 - 45		10	0.5	0.48	1740	3160	3090	2930	2750	2490																	
215363 - 25		8	1	0.9	3450	3170	3150	3090	3020	2950	2870	2780	2700	2590	2520	2410	2300	2180	2070	1860							
215363 - 30		8	1.5	1.37	3450	4010	3940	3870	3800	3740	3650	3580	3500	3410	3250	3220	3120	3000	2840	2640							
215363 - 35		8	2	1.93	3450	4860	4810	4730	4680	4600	4530	4440	4360	4270	4190	4080	3950	3830	3670	3490							
215363 - 40		8	3	2.45	3450	5580	5520	5440	5360	5270	5160	5070	4960	4860	4750	4690	4570	4420	4260	4060							
215363 - 45		8	3	3.06	3450	6220	6140	6080	6010	5920	5820	5710	5600	5480	5380	5260	5130	4950	4800	4590							
19"		219183 - 25	10	0.75	0.54	1740	3500	3400	3280	3120	2960	2760	2500	2080													
	219183 - 30	10	0.75	0.73	1740	4250	4140	3980	3830	3660	3440	3160	2710														
	219183 - 35	10	1	0.92	1740	5020	4880	4730	4580	4370	4120	3810	3390														
	219183 - 40	10	1.5	1.28	1740	6010	5860	5680	5480	5250	4980	4650	4210														
	219183 - 45	10	2	1.65	1740	6770	6610	6400	6170	5920	5620	5190	4700														
21"	221183 - 20	9	1	0.963	1740	4140	4020	3900	3760	3620	3480	3290	3190	2920	2660												
	221183 - 25	9	1.5	1.29	1740	5140	5020	4880	4750	4610	4490	4320	4130	3900	3600	3150											
	221183 - 30	9	2	1.71	1740	6240	6120	6000	5840	5680	5510	5340	5140	4880	4620	4210	3640										
	221183 - 32.5	9	2	1.9	1740	6820	6660	6500	6360	6160	5980	5790	5570	5300	4990	4650	4160										
	221183 - 35	9	3	2.12	1740	7350	7190	7030	6870	6670	6450	6220	5990	5690	5400	5060	4640										
	221183 - 37.5	9	3	2.33	1740	7880	7700	7490	7350	7120	6900	6670	6430	6050	5750	5360	4950										
	221183 - 40	9	3	2.6	1740	8360	8160	7960	7790	7580	7350	7100	6850	6520	5750	5320											
	221183 - 45	9	3	3.15	1740	9290	9090	8900	8680	8410	8160	7890	7640	7300	6400	6380	5610										

PERFORMANCE BASED UPON 85°F AMBIENT TEMPERATURE, DUCTED INLET AND OUTLET



Delta "T" Systems



DELTA "T" SYSTEMS, INC.

TUBE AXIAL FAN RATINGS - 3 PHASE 60HZ

Size	Model Number	No. Of Blades	Motor BHP	Peak AHP	RPM	FLOW IN CFM AT STATIC PRESSURE IN INCHES OF WATER														
						Free Air	.125 IN.	.25 IN.	.375 IN.	.5 IN.	.625 IN.	.75 IN.	.875 IN.	1 IN.	1.125 IN.	1.25 IN.	1.375 IN.	1.5 IN.	1.625 IN.	1.75 IN.
24"	224113 - 20	9	0.5	0.39	1140	3950	3700	3460	3130	2720	2210									
	224113 - 25	9	0.75	0.54	1140	4980	4760	4460	4150	3740	3140									
	224113 - 30	9	0.75	0.74	1140	6080	5820	5510	5180	4750	4130	3160								
	224113 - 32.5	9	1	0.86	1140	6680	6430	6080	5680	5250	4620	3680								
	224113 - 35	9	1	0.96	1140	7290	6980	6600	6180	5670	5100	4160								
	224113 - 37.5	9	1	1.02	1140	7840	7470	7070	6630	6100	5430	4450								
	224113 - 40	9	1.5	1.15	1140	8320	7960	7540	7120	6520	5800	4760								
	224113 - 45	9	1.5	1.47	1140	9270	8880	8450	7910	7290	6430	5090								
	224183 - 20	9	1.5	1.39	1740	6010	5850	5700	5540	5380	5220	5000	4770	4510	4270	3930	3590	3270		
	224183 - 25	9	2	1.9	1740	7640	7470	7290	7130	6930	6750	6540	6300	6060	5840	5450	5090	4570	4060	
	224183 - 30	9	3	2.62	1740	9290	9140	8940	8780	8580	8350	8130	7910	7680	7410	7070	6660	6130	5630	4790
	224183 - 32.5	9	3	3.06	1740	10200	9980	9830	9650	9450	9170	8920	8670	8400	8160	7750	7340	6900	6340	5540
	224183 - 35	9	5	3.45	1740	11100	10900	10800	10520	10300	10000	9740	9460	9120	8860	8450	8020	7590	7070	6360
	224183 - 37.5	9	5	3.74	1740	11900	11700	11500	11200	11000	10700	10400	10100	9800	9510	9010	8650	8140	7630	6780
	224183 - 40	9	5	4.15	1740	12700	12500	12200	12000	11700	11400	11100	10900	10500	10100	9640	9180	8640	8070	7240
	224183 - 45	9	5	5.26	1740	14100	13900	13600	13400	13100	12800	12400	12200	11700	11300	10800	10400	9560	8760	7810
30"	230113 - 20	9	0.75	0.738	1140	6790	6390	5960	5540	5080	4400									
	230113 - 25	9	1.5	1.12	1140	8880	8470	8090	7660	7120	6410	5550								
	230113 - 30	9	1.5	1.54	1140	11000	10600	10200	9640	9070	8430	7500	6220							
	230113 - 32.5	9	2	1.82	1140	12200	11700	11200	10700	10100	9450	8430	7210							
	230113 - 35	9	2	2.1	1140	13300	12900	12300	11800	11100	10500	9460	8110							
	230113 - 37.5	9	3	2.33	1140	14300	13800	13300	12700	12100	11300	10300	9000							
	230113 - 40	9	3	2.55	1140	15300	14800	14300	13700	12900	12100	11100	9930							
	230113 - 45	9	3	3.3	1140	17400	16800	16000	15400	14400	13500	12300	10900							
	230183 - 20	9	3	2.67	1740	10400	10100	9890	9570	9290	9030	8740	8450	8130	7850	7530	7080	6500	6080	5630
	230183 - 25	9	5	3.99	1740	13600	13300	13000	12800	12500	12300	12000	11700	11400	11000	10600	10200	9670	9090	8470
	230183 - 30	9	5	5.46	1740	16900	16600	16300	16100	15700	15400	15100	14700	14300	14000	13600	13200	12700	12100	11500
	230183 - 32.5	9	7.5	6.47	1740	18500	18300	18000	17700	17400	17100	16700	16300	15900	15600	15100	14700	14200	13600	12900
	230183 - 35	9	7.5	7.5	1740	20300	20100	19800	19400	19100	18700	18300	18000	17600	17200	16700	16300	15800	15200	14500
	230183 - 37.5	9	10	8.28	1740	21900	21600	21200	20800	20600	20200	19800	19500	18900	18600	18000	17600	17000	16400	15700
	230183 - 40	9	10	9.06	1740	23400	23100	22700	22400	22000	21600	21200	20900	20400	19900	19400	18900	18200	17600	17000

PERFORMANCE BASED UPON 85°F AMBIENT TEMPERATURE, DUCTED INLET AND OUTLET

