



CEN TEK
MARINE

DELTA-T SYSTEMS BROCHURE

DELTA-T SYSTEMS

Premium Marine *Axial Fans*



Delta-T Systems

Premium Marine Axial Fans

Design & Construction - Delta-T Systems' Premium Axial Ventilation Fans 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 NEMA Premium three phase or single phase direct drive motors are utilized to provide quiet continuous duty service. 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 reliability. Fan blades are non-corrosive polypropylene composite and 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. Premium 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.

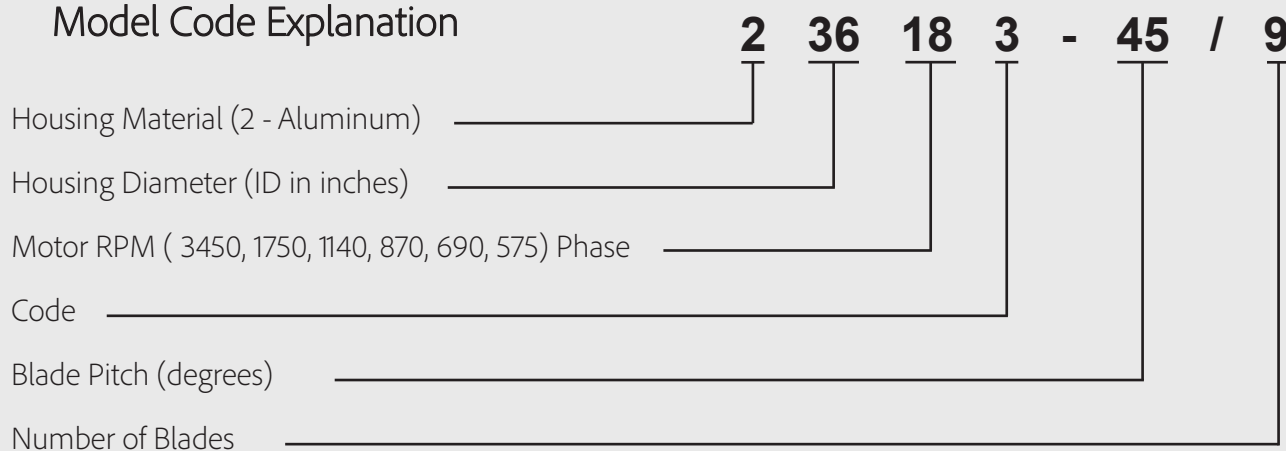
Finish - Aluminum housings are provided in a standard "mill finish" without paint, or may be powder coated upon request.

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' Premium Axial Ventilation Fans are configured to your specific needs and your exacting performance specifications.

Custom Sizes - Can't source a fan or need to drop in a replacement for an existing fan? If you need a larger flow or diameter, simply provide us with your airflow needs and housing dimensions. Our engineers can build a custom Premium Series fan to meet your size and performance requirements.

Model Code Explanation



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Premium Marine Axial Fans

Size	Model Number	No. of Blades	Motor BHP	Peak AHP	RPM	Free Air	0.25 IN.	0.5 IN.	0.75 IN.	1.0 IN.	1.25 IN.	1.5 IN.	1.75 IN.	2.0 IN.
12"	212183-25	8	0.33	0.1	1740	860	650							
	212183-30	8	0.33	0.1	1740	1080	860							
	212183-35	8	0.33	0.1	1740	1210	995							
	212183-35	10	0.33	0.1	1740	1130	950							
	212183-40	8	0.33	0.1	1740	1420	1160							
	212183-40	10	0.33	0.1	1740	1320	1130							
	212183-45	10	0.33	0.2	1740	1450	1250							
	212363-25	8	0.50	0.4	3450	1720	1630	1540	1440	1310	1130			
	212363-25	10	0.50	0.5	3450	1530	1450	1385	1310	1220	1100			
	212363-30	8	0.75	0.6	3450	2150	2060	1960	1860	1750	1620			
	212363-35	8	0.75	0.7	3450	2400	2300	2190	2060	1930	1780			
	212363-40	8	1.00	1.0	3450	2800	2680	2560	2420	2270	2080	1850		
	212363-40	10	1.00	1.1	3450	2560	2470	2370	2270	2150	2030	1850	1570	
	212363-45	8	1.50	1.3	3450	3190	3050	2920	2770	2590	2360	2080		
	212363-45	10	1.50	1.4	3450	2880	2780	2690	2580	2460	2330	2140	1900	
15"	215183-25	10	0.33	0.2	1740	1640	1450	1090						
	215183-30	10	0.33	0.3	1740	2040	1870	1530						
	215183-35	10	0.50	0.3	1740	2370	2160	1760						
	215183-40	10	0.50	0.4	1740	2750	2490	2070						
	215183-45	10	0.50	0.5	1740	3250	2920	2430						
	215363-25	8	1.00	0.9	3450	3230	3090	2950	2780	2590	2410	2180	1860	
	215363-25	10	1.50	1.5	3450	3230	3130	3040	2930	2820	2700	2540	2320	
	215363-30	8	1.50	1.3	3450	4000	3860	3720	3560	3400	3210	2950	2570	
	215363-30	10	2.00	1.9	3450	4010	3920	3820	3730	3630	3470	3300	3140	2860
	215363-35	8	2.00	1.9	3450	4810	4670	4520	4350	4190	3950	3670	3250	
	215363-35	10	3.00	2.3	3450	4700	4600	4490	4380	4270	4110	3910	3650	3370
	215363-40	8	3.00	2.3	3450	5510	5330	5160	4980	4770	4530	4250	3900	
	215363-40	10	3.00	2.5	3450	5460	5390	5200	5070	4920	4760	4580	4360	4010
	215363-45	8	3.00	3.0	3450	6150	5960	5780	5580	5340	5090	4780		

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19"	219183-25	10	0.75	0.5	1740	3450	3150	2800	2330					
	219183-30	10	0.75	0.7	1740	4210	3890	3520	3020					
	219183-35	10	1.00	0.9	1740	5190	4870	4490	3920					
	219183-40	10	1.50	1.3	1740	5960	5600	5180	4590					
	219183-45	10	1.50	1.7	1740	6760	6300	5830	5250					
	219363-25	8	3.00	3.2	3450	6620	6460	6280	6090	5870	5650	5460	5170	4960
	219363-25	10	3.00	2.7	3450	6110	6000	5840	5720	5560	5440	5270	5080	4870
	219363-30	10	5.00	3.8	3450	7760	7630	7470	7320	7190	7050	6870	6670	6460
	219363-35	10	5.00	5.4	3450	9490	9300	9130	8920	8750	8600	8400	8100	7830
21"	221183-20	9	1.00	1.0	1740	4150	3880	3610	3280	2870				
	221183-25	9	1.50	1.3	1740	5150	4880	4600	4290	3870	3170			
	221183-30	9	2.00	1.7	1740	6250	5960	5670	5330	4860	4170			
	221183-32.5	9	2.00	1.9	1740	6810	6500	6150	5770	5260	4570			
	221183-35	9	3.00	2.1	1740	7370	7030	6640	6200	5680	4980			
	221183-37.5	9	3.00	2.3	1740	7880	7500	7100	6640	6080	5320			
	221183-40	9	3.00	2.6	1740	8400	7980	7540	7080	6450	5640			
	221183-45	9	3.00	3.2	1740	9320	8870	8410	7880	7280	6290			
24"	224183-25	9	2.00	1.9	1740	7650	7280	6920	6510	6030	5420	4460	3510	
	224183-30	9	3.00	2.6	1740	9300	8930	8550	8110	7630	6970	6010	4660	
	224183-32.5	9	3.00	3.1	1740	10200	9810	9420	8910	8350	7670	6810	5200	
	224183-35	9	5.00	3.5	1740	11200	10700	10300	9700	9110	8380	7520	5860	
	224183-37.5	9	5.00	3.7	1740	11900	11500	11000	10400	9800	9030	8050	6340	
	224183-40	9	5.00	4.2	1740	12700	12200	11700	11100	10400	9620	8580	6640	
	224183-45	9	5.00	5.4	1740	14300	13700	13300	12600	11800	11000	9780	8220	
	224183-50	9	7.50	7.7	1740	15700	15100	14400	13700	12700	11500			
28"	228183-25	9	3.00	3.0	1740	11200	10800	10300	9800	9200	8500	7520	6350	
	228183-32.5	9	5.00	4.9	1740	15400	14900	14300	13600	13000	12200	11100	9830	
	228183-35	9	7.50	5.5	1740	17000	16400	15800	15200	14500	13600	12700	11500	
	228183-37.5	9	7.50	6.5	1740	18200	17700	17100	16400	15600	14700	13700	12600	
	228183-40	9	7.50	7.2	1740	19300	18700	18100	17400	16500	15500	14300	13000	
	228183-45	9	10.00	9.0	1740	21600	20900	20200	19400	18400	17200	15700	14200	
	228183-50	9	15.00	13.0	1740	23600	22900	22100	21200	20200	19200	17800	16300	

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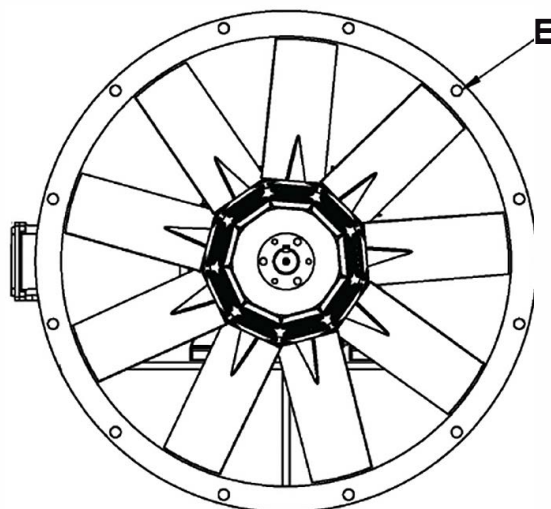
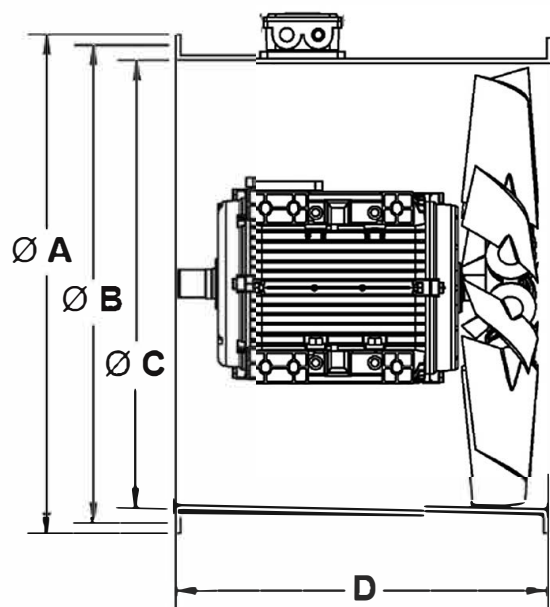
Size	Model Number	No. of Blades	Motor BHP	Peak AHP	RPM	Free Air	0.25 IN.	0.5 IN.	0.75 IN.	1.0 IN.	1.25 IN.	1.5 IN.	1.75 IN.	2.0 IN.
30"	230183-30	9	5.00	5.5	1740	16900	16300	15700	15000	14300	13600	12560	11100	
	230183-32.5	9	7.50	6.3	1740	18500	18000	17400	16700	15900	15100	14200	12900	
	230183-35	9	7.50	7.3	1740	20300	19800	19100	18300	17600	16700	15800	14500	
	230183-37.5	9	10.00	8.6	1740	21900	21200	20600	19800	18900	18000	17000	15700	
	230183-40	9	10.00	9.5	1740	23400	22700	22000	21200	20400	19400	18200	17000	
	230183-45	9	15.00	12.1	1740	26500	25700	24800	23800	22800	21600	20200	18700	
	230183-50	9	15.00	17.2	1740	28600	27800	27100	26200	25200	23900	22400	20800	
32"	232183-30	9	7.50	7	1740	20200	19500	18900	18300	17500	16700	15800	14700	
	232183-32.5	9	10.00	7.8	1740	22300	21700	21000	20300	19500	18600	17800	16500	
	232183-35	9	10.00	10.5	1740	24400	23700	23100	22300	21500	20700	19700	18400	
	232183-37.5	9	15.00	11.5	1740	25400	24800	24200	23500	22600	21700	20900	19900	
	232183-40	9	15.00	13.5	1740	27400	26700	26100	25300	24500	23500	22600	21400	
	232183-45	9	15.00	16	1740	31600	30800	30000	29000	27900	26800	25700	24400	
36"	236183-30	9	10.00	9.6	1740	24600	23900	23100	22300	21400	20500	19400	18200	
	236183-32.5	9	15.00	11.1	1740	27300	26700	25900	25000	24100	23200	22100	20800	
	236183-35	9	15.00	12.3	1740	30100	29300	28600	27800	26900	25900	24800	23700	
	236183-37.5	9	15.00	14.2	1740	33000	32200	31400	30400	29400	28400	27100	25700	
	236183-40	9	20.00	16.4	1740	36000	35000	34000	33100	31900	30900	29500	28200	
	236183-45	9	25.00	23.4	1740	40900	39900	38900	37800	36700	35600	34200	32800	
	236183-50	9	30.00	30.3	1740	45300	44200	43100	42000	40700	39500	38100	36500	
C U S T O M	Premium Marine Axial Fans are also available in custom sizes up to 80 inches in diameter to meet your airflow requirements. For more information on custom sizes, contact us via our phone number or email address below.													

All airflow values are presented in cubic feet per minute (CFM) and are based on AMCA certified blade curves, for which tests are carried out according to methods described in ANSI / AMCA 210-99 (ISO5801, DIN 24163).

Load factors are calculated based on static operation.

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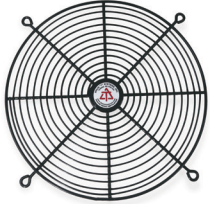


Fan Size	A OD	B Bolt Circle	C ID	D Length	E Bolt Holes
12 in 304.8 mm	14 3/4 in 374.7 mm	13 3/4 in 349.3 mm	12 in 304.8 mm	16 in 406.4 mm	8 x 3/8 in 8 x 9.5 mm
15 in 381 mm	17 3/4 in 450.9 mm	16 3/4 in 425.5 mm	15 in 381 mm	16 in 406.4 mm	8 x 7/16 in 8 x 11 mm
19 in 482.6 mm	21 3/4 in 552.5 mm	20 3/4 in 527 mm	19 in 482.6 mm	16 in 406.4 mm	8 x 9/16 in 8 x 14.3 mm
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	12 x 9/16 in 12 x 14.3 mm
24 in 609.6 mm	26 3/4 in 679.5 mm	25 3/4 in 654 mm	24 in 609.6 mm	19 in 482.6 mm	12 x 9/16 in 12 x 14.3 mm
28 in 711.2 mm	31 3/4 in 806.5 mm	30 5/16 in 769.9 mm	28 in 711.2 mm	24 in 609.6 mm	12 x 9/16 in 12 x 14.3 mm
30 in 762 mm	33 3/4 in 857.3 mm	32 5/16 in 820.7 mm	30 in 762 mm	28 in 711.2 mm	16 x 9/16 in 12 x 14.3 mm
32 in 812.8 mm	35 3/4 in 908.1 mm	34 5/16 in 871.5 mm	32 in 812.8 mm	28 in 711.2 mm	16 x 9/16 in 12 x 14.3 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	16 x 9/16 in 12 x 14.3 mm

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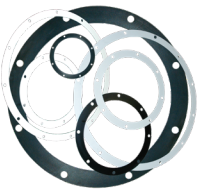
Fan Accessories



Fan Guards - A full line of marine grade fan guards are available in all housing sizes for use with Premium Axial Fans. Plastic coated steel provides strength and corrosion protection while keeping debris out of the fans.



Airflow Diverters - Standard airflow diverters bolt up to the flange of an axial fan in order to split up and divert the airflow into various directions as required. Airflow diverters come in five different configurations in order to suit your air distribution requirements.



Gaskets - Gaskets are available for all fan and damper models and sizes. Custom cut from air infused pvc material for water resistance, galvanic isolation and excellent compression properties.



Frequency Drives - A full line of preprogrammed frequency drives are available in all horsepower sizes for use with Premium Axial Fans.



Control Systems - A full line of fan and ventilation control systems are available to control your vessel's fans from fully automatic set it and forget it systems to simple manual fan control systems.



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