



## DUCT, DUCT AXIAL, VANE AXIAL FANS

Daltec duct fans are superbly suited for all industrial applications from marine to mine duty. Units are available in arrangement # 4 (TADD) direct drive and arrangement # 9 (TAW) belt drive. Each unit ships standard with a drilled & flanged inlet and outlet, heavy gauge steel housing and adjustable pitch impeller. Daltec duct fans can be mounted in any position horizontal to vertically. Corrosion resistant, high temperature and spark resistant construction is also available.

Typical motors are TEFC. Direct drive units ship standard with extended motor leads and an external junction box.

Duct in the right direction with a Daltec duct fan.

### Design Features

- Statically & dynamically balanced impellers
- Up to 10" static pressure, 60" diameter
- Capacities from 500 - 100,000 CFM
- Flanged & drilled inlet and outlets
- Continuously welded housings
- Choice of motors and voltages
- Adjustable pitch impellers

### Optional Items

- Custom designs
- Hot Dip Galvanizing
- AMCA spark resistant construction
- Single phase, three phase, 50 Hz & 60 Hz
- Stainless steel, aluminum or steel construction
- Companion flanges, mounting feet, access door
- TEFC, explosion proof, mill & chem, ATEX motors
- Guide vane section, inlet and/or outlet guard, inlet bell



DUCT, DUCT AXIAL, VANE AXIAL FANS



**Model: TAW12**

**Impeller:** 12" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP (GRP only with single phase motors - TAW120 only)

**Maximum Bore:** 1"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
6-6/3H	6	25	1450	897	0.0335	180	0.0509												
6-6/3H	6	25	1750	1090	0.0585	556	0.0862												
6-6/3H	6	25	1900	1180	0.0749	745	0.109	78	0.0116										
6-6/3H	6	25	2200	1370	0.116	1060	0.155	421	0.175										
6-6/3H	6	25	2500	1550	0.171	1310	0.213	816	0.251	289	0.261								
6-6/3H	6	25	2800	1740	0.24	1530	0.287	1200	0.342	625	0.357	260	0.368						
6-6/3H	6	25	3000	1860	0.295	1670	0.345	1390	0.404	909	0.434	479	0.448	130	0.457				
6-6/3H	6	25	3200	1990	0.358	1800	0.413	1570	0.468	1200	0.524	687	0.534	354	0.548				
6-6/3H	6	25	3450	2140	0.448	1980	0.505	1770	0.567	1490	0.638	1010	0.66	628	0.676	328	0.689		
6-6/3H	6	25	3800	2350	0.604	2210	0.664	2050	0.726	1820	0.802	1520	0.871	1020	0.883	705	0.902	439	0.917



**Model: TAW15**

**Impeller:** 15" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP (GRP only with single phase motors - TAW120 only)

**Maximum Bore:** 1"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
4-8/3H	4	30	1450	1890	0.088	452	0.099												
4-8/3H	4	30	1750	2280	0.156	1380	0.188												
4-8/3H	4	30	1900	2480	0.199	1710	0.24	356	0.25										
4-8/3H	4	30	2200	2860	0.311	2240	0.363	1030	0.347										
4-8/3H	4	30	2500	3250	0.456	2730	0.521	2020	0.548	755	0.511								
4-8/3H	4	30	2800	2550	0.768	3190	0.72	2630	0.763	1730	0.754	713	0.75						
4-8/3H	4	30	3000	3900	0.788	3490	0.878	2980	0.927	2330	0.948	1140	0.874	560	0.983				
4-8/3H	4	30	3200	4160	0.956	3790	1.06	3320	1.11	2780	1.15	1850	1.11	922	1.08	453	1.24		
4-8/3H	4	30	3450	4480	1.2	4160	1.32	3720	1.38	3260	1.43	2650	1.44	1520	1.33	910	1.39	472	1.56
4-8/3H	4	30	3800	4940	1.6	4650	1.73	4260	1.81	3870	1.87	3430	1.92	2820	1.93	1750	1.79	1110	1.8



**Model: TAW18**

**Impeller:** 18" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-1/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
4-8/3H	4	35	1450	3590	0.236	1270	0.239														
4-8/3H	4	35	1750	4330	0.414	3030	0.469	602	0.505												
4-8/3H	4	35	1900	4700	0.53	3550	0.598	1150	0.566												
4-8/3H	4	35	2200	5430	0.825	4490	0.912	3070	0.894	947	0.962										
4-8/3H	4	35	2500	6170	1.21	5370	1.32	4390	1.37	2150	1.23	952	1.45								
4-8/3H	4	35	2800	6930	1.7	6210	1.82	5370	1.9	4290	1.88	2140	1.75	1070	2.03						
4-8/3H	4	35	3000	7420	2.09	6760	2.23	6000	2.32	5120	2.36	3350	2.13	1820	2.23	926	2.59				
4-8/3H	4	35	3200	7920	2.53	7310	2.69	6600	2.8	5870	2.87	4790	2.8	2670	2.59	1660	2.83	841	3.21		
4-8/3H	4	35	3450	8540	3.17	7990	3.34	7370	3.48	6670	3.56	5880	3.59	4650	3.42	2680	3.27	1790	3.55	1000	3.96
4-8/3H	4	35	3800	9430	4.23	8900	4.42	8340	4.59	7730	4.7	7090	4.79	6350	4.78	5240	4.6	3230	4.32	2310	4.52

**Model: TAW21**

**Impeller:** 21" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1- 5/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
10-10/3H	10	35	1170	4670	0.358	3070	0.464																
10-10/3H	10	35	1300	5190	0.49	3930	0.626	979	0.593														
10-10/3H	10	35	1450	5780	0.681	4720	0.84	2310	0.806														
10-10/3H	10	35	1750	6980	1.2	6180	1.39	4990	1.55	2590	1.4												
10-10/3H	10	35	1900	7560	1.54	6850	1.74	5890	1.94	4240	1.93	1900	1.77										
10-10/3H	10	35	2200	8770	2.38	8180	2.63	7480	2.84	6530	3.05	4990	3.01	2800	2.75	1300	2.96			1-5/8"			
10-10/3H	10	35	2500	9970	3.49	9460	3.78	8850	4.04	8150	4.3	7270	4.5	5950	4.48	3900	4.12	2380	4.06	1120	4.45		
10-10/3H	10	35	2800	11200	4.9	10700	5.22	10200	5.53	9640	5.8	8980	6.11	8150	6.32	6970	6.32	5130	5.93	3690	5.69	2410	5.81





**Model: TAW24**

**Impeller:** 24" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
10-10/3H	10	40	870	5330	0.294	1100	0.501																		
10-10/3H	10	40	1000	6140	0.446	3080	0.491																		
10-10/3H	10	40	1170	7180	0.713	5310	0.837	875	0.845																
10-10/3H	10	40	1300	7980	0.979	6440	1.13	2600	1.02																
10-10/3H	10	40	1450	8900	1.36	7580	1.55	4990	1.54	1270	1.58														
10-10/3H	10	40	1750	10700	2.4	9710	2.67	8380	2.79	5630	2.66	2350	2.56												
10-10/3H	10	40	1900	11700	3.05	10800	3.39	9610	3.52	7830	3.59	4580	3.23	1980	3.45										
10-10/3H	10	40	2200	13500	4.76	12700	5.14	11800	5.37	10700	5.52	9100	5.57	6240	5.15	3610	4.94	1780	5.57						
10-10/3H	10	40	2500	15300	6.96	14700	7.41	13900	7.77	13100	7.95	12100	8.11	10700	8.19	8370	7.82	5840	7.33	3600	7.34	2070	8.14		
10-10/3H	10	40	2800	17200	9.78	16600	10.3	16000	10.8	15200	11	14400	11.1	13500	11.4	12400	11.5	10800	11.4	8200	10.7	6110	10.2	4080	10.3



**Model: TAW27**

**Impeller:** 27" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-5/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
9-9/4Z	9	30	870	6540	0.36	3470	0.509																		
9-9/4Z	9	30	1000	7530	0.545	5450	0.772	1450	0.799																
9-9/4Z	9	30	1170	8820	0.872	7230	1.16	3690	1.18	1060	1.36														
9-9/4Z	9	30	1300	9790	1.2	8430	1.52	6110	1.71	2700	1.62	560	1.97												
9-9/4Z	9	30	1450	10900	1.66	9750	2.03	8130	2.32	4900	2.28	2500	2.35	563	2.75										
9-9/4Z	9	30	1750	13200	2.92	12200	3.42	11100	3.79	9660	4.12	7120	4.15	4470	3.89	2740	4.22	1130	4.7						
9-9/4Z	9	30	1900	14300	3.73	13500	4.3	12500	4.89	11300	5.06	9620	5.33	6810	5.2	4640	4.96	3100	5.36	1610	5.88				
9-9/4Z	9	30	2200	16600	5.8	15900	6.46	15000	6.97	14200	7.43	13100	7.87	11700	8.27	9720	8.3	7180	7.92	5490	7.71	4040	8.11	2760	8.71
9-9/4Z	9	30	2500	18800	8.5	18200	9.3	17500	9.94	16800	10.4	16000	11	15100	11.5	14000	11.9	12500	12.1	10400	12.1	8250	11.7	6580	11.4



**Model: TAW30**

**Impeller:** 30" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-5/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
8-8/4Z	8	25	870	7510	0.467	4360	0.643																		
8-8/4Z	8	25	1000	8630	0.071	6310	0.954	2060	0.918																
8-8/4Z	8	25	1170	10100	1.14	8270	1.46	5060	1.55	1620	1.52														
8-8/4Z	8	25	1300	11200	1.56	9640	1.93	7340	2.13	3900	2.02	1020	2.17												
8-8/4Z	8	25	1450	12500	2.16	11100	2.58	9400	2.89	6510	2.96	3570	2.78												
8-8/4Z	8	25	1750	15100	3.82	14000	4.31	12700	4.78	11200	5.1	8910	5.23	6280	5.06	3920	4.91	1890	5.2						
8-8/4Z	8	25	1900	16400	4.86	15400	5.4	14200	5.97	13000	6.37	11400	6.62	8920	6.68	6600	6.42	4410	6.27	2480	6.56				
8-8/4Z	8	25	2200	19000	7.56	18100	8.19	17200	8.82	16200	9.42	15000	9.88	13700	10.2	11900	10.4	9670	3.5	7670	9.98	5740	9.71	4060	9.83

**Model: TAW36**

**Impeller:** 36" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
7-7/5Z	7	30	870	11600	0.738																				
7-7/5Z	7	30	1000	13400	1.12	9880	1.48	4380	1.48																
7-7/5Z	7	30	1170	15600	1.81	12800	2.23	8710	2.44	4130	2.43														
7-7/5Z	7	30	1300	12200	3.32	14900	2.98	11800	3.34	7060	3.3	3450	3.46												
7-7/5Z	7	30	1450	10400	3.42	17200	3.98	14600	4.46	11200	4.66	7050	4.52	3780	4.82										
7-7/5Z	7	30	1750	23400	6	21800	6.64	19700	7.35	17400	7.87	15000	8.23	10900	8.13	7950	7.89	5460	8.23	2350	9.05				
7-7/5Z	7	30	1900	25400	7.68	23900	8.38	22100	9.19	20000	9.71	17900	10.3	15200	10.5	11400	10.4	8870	10.1	6500	10.4	3740	11.2		
7-7/5Z	7	30	2000	26800	8.96	25300	9.69	23500	10.6	21700	11.2	19800	11.8	17600	12.2	14300	12.2	11200	12	8820	11.8	6610	12.2	3870	13.1



**MEMBER**



**Model: TAW42**

**Impeller:** 42" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
9-9/5Z	9	30	700	14400	0.803	7390	1.12																		
9-9/5Z	9	30	870	17800	1.55	13700	2.06	6320	2.12																
9-9/5Z	9	30	1000	20500	2.35	17100	2.94	10900	3.26	4880	3.44														
9-9/5Z	9	30	1170	24000	3.76	21200	4.46	17600	5.12	11200	5.19	6290	5.43												
9-9/5Z	9	30	1300	26700	5.14	24200	5.92	21200	6.67	17200	7.07	11200	7.1	6680	7.5	1210	8.38								
9-9/5Z	9	30	1450	29800	7.13	27600	7.98	25100	8.89	22200	9.73	17200	9.93	12500	9.85	8480	10.2	3680	11.2						
9-9/5Z	9	30	1750	36000	12.5	34100	13.5	32200	14.6	30100	15.7	27700	16.7	25000	17.2	19700	17.5	15800	3.51	13000	17.2	9220	18.2	5090	19.4



**Model: TAW48**

**Impeller:** 48" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
6-6/W	6	27	700	24200	1.92	19100	2.8	9090	3.09																
6-6/W	6	27	870	30200	3.65	26300	4.84	20700	5.68	11900	5.93	6050	6.66												
6-6/W	6	27	1000	34500	5.63	31300	6.94	27400	8.12	21600	8.77	13500	9.01	8190	9.74	3920	11								
6-6/W	6	27	1170	40600	8.87	37800	10.5	34800	12	30900	13.3	25800	14	18100	14.3	13300	14.7	9020	15.8	5420	17.3				
6-6/W	6	27	1300	45200	12.2	42600	14.1	39900	15.8	37000	17.3	33100	18.5	28300	19.2	21700	19.6	16400	19.8	12300	20.8	8880	22.3	5570	24
6-6/W	6	27	1450	50200	17	48100	18.9	45700	21	43300	22.8	40500	24.4	36800	25.8	32600	26.6	27500	27	21200	27.4	17400	27.8	13500	28.9



**Model: TAW54**

**Impeller:** 54" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5-5/9W	5	24	500	21500	0.929	7530	1.29																		
5-5/9W	5	24	700	30100	2.55	22400	3.49	10300	3.56																
5-5/9W	5	24	870	37400	4.9	31600	6.15	24500	6.98	13400	6.8	6200	7.07												
5-5/9W	5	24	1000	42900	7.44	38000	8.9	32400	10.1	25400	10.7	15200	10.3	9300	10.6										
5-5/9W	5	24	1170	50400	11.8	46200	13.6	41700	15.3	36600	16.5	30400	17.1	21400	16.8	15300	16.7	9920	17.1						
5-5/9W	5	24	1300	56000	16.2	52200	18.3	48200	20.1	44000	21.8	39100	22.9	33300	23.5	25300	23.2	18700	22.8	14600	23.2	8960	23.6		

**Model: TAW60**

**Impeller:** 60" diameter with split taper bushing  
**Impeller Hub:** Aluminum construction  
**Impeller Blades:** Aluminum or GRP

**Maximum Bore:** 1-7/8"  
**Maximum Motor Frame Direct Drive:**

Impeller Model	Number of Blades	Pitch Angle	RPM	0"		1/2"		1"		1-1/2"		2"		2-1/2"		3"		3.5"		4"		4.5"		5"	
				CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
8-8/9W	8	24	500	29000	1.58	18800	2.52	5340	2.6																
8-8/9W	8	24	700	40600	4.33	34500	5.94	26000	6.92	16500	7.15	6520	7.13												
8-8/9W	8	24	870	50400	8.31	45600	10.5	40400	11.9	33400	13.2	24600	13.7	18000	13.7	9750	13.7								
8-8/9W	8	24	1000	58000	12.6	53700	15.2	49400	17.3	44700	18.5	38000	20.1	29900	20.8	24400	20.8	18200	20.8	10700	20.8				
8-8/9W	8	24	1170	67800	20.2	64100	23.7	60700	26.1	56800	28.2	52600	29.6	47400	31.5	40300	32.7	34300	33.4	29500	33.4	24600	33.3	18600	33.3

