

HORTICULTURE Ventilation Products



Est. 1938

**ACME ENGINEERING &
MANUFACTURING CORP.**

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DC/DCA Fans



The DC/DCA fan series has stood the test of time in greenhouse applications. Being known as the premier horticultural fan in the marketplace is why so many universities spec this fan by name. The DC/DCA models feature a *6 bladed propeller design that utilizes a cambered-twist blade with a unique dihedral tip design. This non-overloading design maintains uniform horsepower requirements throughout a wide range of static pressures and is one of the quietest blades on the market. The prelubricated duplex split pillowblock housing insures that the bearing alignment remains true. This allows Acme to offer a 5 year shaft and bearing warranty for the DC/DCA models. The DC models are constructed of heavy wall steel tubing that is formed and welded to create a strong frame. The DCA model is all aluminum for that added corrosion resistance that some prefer. The DCA model also



uses the same propeller and bearing design as the DC model, which gives the consumer confidence that they have purchased one of the best performing and longest lasting fans on the market. This model can come in the standard slant wall housing (WS) or a straight wall housing (WB) to suit the application. * The DC/DCA54 models have a 4-bladed prop.

Fan Mounted in WS Slant Wall Housing With Inlet Shutter and Outlet Guard

CERTIFIED CFM VS. STATIC PRESSURE (INCHES WG)

FAN MODEL	HP	*RPM	.000"			.050"			.100"			.125"			.150"		
			CFM	*BHP	C/W	CFM	*BHP	C/W	CFM	*BHP	C/W	CFM	*BHP	C/W	CFM	*BHP	C/W
DC24F-A	1/3	735	5527	.46	10.2	5237	.46	9.6	4949	.47	9.0	4805	.47	8.7	4655	.48	8.4
DC24G-A	1/2	820	6099	.60	10.1	5849	.61	9.6	5591	.62	9.1	5455	.62	8.8	5313	.62	8.6
DC24H-A	3/4	949	7363	1.0	7.5	7146	1.01	7.2	6923	1.0	6.9	6809	1.0	6.8	6690	1.0	6.6
DC30F-A	1/3	529	7672	.43	14.7	7172	.45	13.5	6660	.46	12.2	6388	.47	11.5	6084	.48	10.9
DC30G-A	1/2	607	9044	.68	13.4	8643	.69	12.5	8217	.70	11.7	7986	.71	11.3	7736	.71	10.8
DC30H-A	3/4	686	9756	.90	10.8	9370	.92	10.2	8970	.93	9.7	8759	.94	9.4	8539	.95	9.1
DC36F-A	1/3	431	9904	.39	20.1	9161	.42	17.9	8307	.43	15.9	7709	.44	14.6	6711	.43	12.8
DC36G-A	1/2	495	11418	.60	18.9	10840	.62	17.5	10184	.64	16.0	9780	.65	15.2	8291	.65	14.3
DC36H-A	3/4	575	13077	.93	14.2	12596	.95	13.3	12079	.98	12.5	11789	.99	12.1	11461	1.0	11.6
DC36J-A	1	634	14033	1.12	13.1	13543	1.14	12.4	13034	1.17	11.8	12764	1.18	11.4	12477	1.19	11.0
DC42G-A	1/2	385	13345	.54	24.1	12451	.56	22.0	11350	.58	19.4	10613	.59	17.8	9704	.60	16.15
DC42H-A	3/4	442	15687	.84	18.6	14767	.88	16.9	13793	.90	15.3	13263	.91	14.6	12689	.92	13.9
DC42J-A	1	485	17153	1.15	15.7	16425	1.18	14.6	15655	1.21	13.6	15236	1.22	13.1	14780	1.2	12.6
DC48G-A	1/2	308	16863	.59	28.3	15507	.62	25.0	13787	.64	21.5	12435	.65	19.3	10513	.65	16.2
DC48H-A	3/4	354	19564	.93	21.2	18359	.95	19.4	17028	.98	17.6	16239	.99	16.6	15256	1.0	15.4
DC48J-A	1	382	20637	1.10	19.8	19439	1.13	18.1	18193	1.16	16.5	17518	1.17	15.7	16746	1.18	14.9
DC48K-A	1 1/2	444	23761	1.64	15.0	22791	1.68	14.1	21771	1.72	13.1	21220	1.74	12.7	20624	1.76	12.2
DC54-4H-A	3/4	275	20693	.75	28.5	18721	.76	25.4	15778	.78	20.9	13384	.80	17.3	10556	.78	13.9
DC54-4J-A	1	355	25835	1.26	21.6	24084	1.28	19.7	22337	1.30	18.0	21354	1.31	17.1	19869	1.33	15.7
DC54-4K-A	1 1/2	398	28500	1.58	17.5	26543	1.61	16.0	25272	1.62	15.1	24332	1.63	14.5	23313	1.64	13.9

A Models - Performance includes the effects of slant housing, shutter and guard in the airstream.



NEW!

Turbulator Stir Fans

As energy costs continue to increase, Acme engineers found a cutting edge way to help our customers conserve energy and obtain the largest return on investment. The solution...



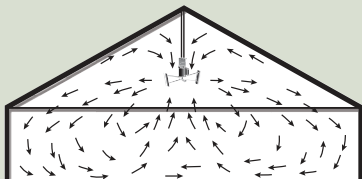
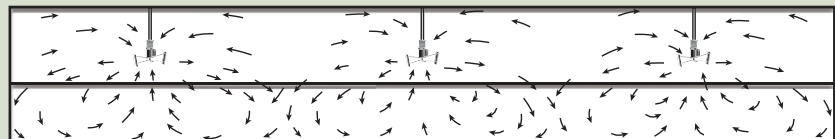
Turbulator™

The Turbulator is the perfect solution for destratification of heated air in an open truss greenhouse.

The Turbulator Stir Fan design is so unique that no other fan in today's market performs in the same way. The Turbulator moves large quantities of air, at low velocities, in a flat cone-shaped pattern that follows the slope of the house roof downward. This provides a uniform airflow over a large area with the least amount of air blasts or dead spots, resulting in a very even heat distribution from the floor to the ridge. Cold or hot spots are virtually eliminated. The existing heating system becomes more efficient and fuel costs are reduced during the cold winter months.

Model T20D (Direct Drive)

- Moves 13,500 CFM and covers up to 2500 sq. ft area.
- 1/3 HP totally enclosed motor with permanently lubricated ball bearings.
- Easy to install, all Turbulators are furnished with hanging brackets.
- High efficiency 4 blade impeller.



Key advantages:

- 360 degree air flow
- No direct air blasts on vegetation
- Moves large volumes of air at low velocities
- Even heat distribution from floor to ceiling
- Reduces heating fuel demand
- Gentle sweeping air movement at plant level



Video of Turbulator in Action

Get the free mobile app at <http://gettag.mobi>

The Turbulator is designed to be installed in open truss buildings and is not recommended for use in drop ceiling buildings or applications that would allow for contact by people, objects, or animals. Suggested installation height is 12-16 feet from the bottom of impeller to the closest working surface (floor, bench, etc). An optional guard kit is recommended when the impeller is installed less than 12 feet from the closest working surface. By OSHA requirements, the lowest point of the unit must be at least 8 feet from any working surface, even with the optional guard in place.

Kool Cel

Acme's CSEG 6" and CAEG 4" evaporative cooling systems offer ease of installation and very low maintenance. The gutter's UV protection and rugged stainless steel CSEG or aluminum CAEG top offers many years of trouble-free operation. Just glue the sections together and snap in the pad tray. The gutter is mounted level and serves as a retention tank. The gutter may be mounted either on a wall stringer, using stainless steel brackets, or directly on a level concrete pad, to remove the load from the wall. This unit can be supplied in a number of configurations and lengths to suit your application.



DDPV Fans



DDPG, DDPS AND DDPV PERFORMANCE DATA													
SINGLE PHASE													
MODEL	HP	CFM VS. STATIC PRESSURE (INCHES WG)											
		0.00"			0.05"			0.10"			0.15"		
		CFM	RPM	C/W	CFM	RPM	C/W	CFM	RPM	C/W	CFM	RPM	C/W
★◆DDPS14B4-C	1/10	1720	1593	12.5	1620	1580	11.4	1500	1566	10.2	1280	1554	8.5
★◆DDPS14D4-C	1/5	2150	1642	9.2	2020	1638	8.5	1840	1635	7.7	770	1653	3.5
★◆DDPS18B4-C	1/10	2720	1478	16.3	2430	1449	13.9	2060	1412	11.3	1590	1374	8.4
★◆DDPS18F4-C	1/3	4180	1638	11	4000	1632	10.4	3810	1625	9.7	3610	1617	9.1
★◆DDPS24G6-C	1/2	7360	1097	14.4	6900	1091	13	6500	1086	12	6070	1080	10.8
DDPS36G8-C	1/2	11090	853	22.6	10260	846	19.4	9460	840	17	8570	833	14.4
◆DDPS361G8-C	1/2	11540	864	23.9	10780	861	21	9990	855	18.5	9340	852	16.4
★◆DDPS36G-C	1/2	13000	638	23.1	12410	636	20.8	11860	636	19.2	11180	635	17.4
DDPSV50J1-C	1	25900	481	24.4	24600	479	21.7	23400	477	19.7	22000	475	17.7
DDPSV50J-C	1	25300	463	24.9	23800	461	22	22600	449	20	20800	457	17.7
DDPSV50J3-C	1	25200	468	25.3	23900	468	22.9	22700	466	20.5	21200	465	18.5
DDPSV50J3L-C	1	21600	397	32.7	20100	397	28.3	18400	396	24.5	16200	396	20.8
DDPSV50JL-C	1	21400	389	31.7	19600	388	27.4	17900	387	24	15600	386	20.1
DDPSV50K-C	1 1/2	27500	516	20.8	26500	516	18.9	25300	515	17.3	24000	514	15.8
DDPGV50J1-C	1	25700	480	23.5	24700	479	21.5	23500	477	19.5	22100	476	17.7
DDPGV50J-C	1	25300	460	22.3	24091	458	20.2	22942	457	18.5	21665	456	16.9
DDPGV50J3-C	1	25100	468	24.2	23900	467	21.9	22700	466	19.8	21400	465	18.1
DDPGV50J3L-C	1	21400	398	31	20100	396	27.7	18600	395	24.2	16600	395	20.9
DDPGV50JL-C	1	21300	382	30.3	19700	378	26.5	18000	378	23.3	15700	377	19.9
DDPGV50K-C	1 1/2	27400	515	19.8	26400	514	18.1	25300	513	16.7	24200	512	15.4
DDPV54J-C	1	27781		27.2	26298		23.9	24492		20.8	22185		17.7
DDPV54K-C	1 1/2	30537		23	29389		20.9	27911		18.9	26211		16.8
THREE PHASE													
DDPV54J-C	1	27464		27.5	26019		24.4	24103		21.1	22018		18.3
DDPV54K-C	1 1/2	30615		22.2	29418		20.3	27913		18.3	26210		16.4
DDPV54L-C	2	33838		18.7	32627		16.9	31057		15.2	29226		13.6

Combining the technology of the most efficient fans designed for agriculture and horticulture and the corrosion resistance of plastics, the DDPV models perform in the toughest of environments. These feature a housing made of heavy gauge fiberglass that provides strength and corrosion resistance while being easy to clean. Acme offers the DDPV models in galvanized steel, aluminum, and stainless steel construction. All models are available with standard aluminum shutters or plastic shutters for additional corrosion resistance. Acme's stainless steel corrosion resistant Master-Ex® DDP fans offer an additional lifetime warranty on the propeller, cone, and housing.



★ Suitable for use with a variable speed drive
◆ Direct Drive Fans

Think **ACME** for all your **Greenhouse Ventilation Needs**

The products shown in this brochure are covered by a limited warranty. For a complete copy of the warranty statement, see form MS149 available at www.acmehort.com or write to Acme Engineering & Manufacturing Corporation, P.O. Box 978, Muskogee, OK 74402.



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