



Direct Drive Fans for Performance Second to None.

Built for Life. Built to Last.

Engineered for a unique combination of aerodynamic detailing with high efficiency, long-life and worry-free performance

12" to 24" Direct Drive Fans

Power Miser Fan Series

Features:

- Matching blades and energy-efficient motors provide maximum CVM/watt of electrical power
- Unique four-point stainless steel motor mount design provides minimum air restriction and vibration-free performance
- Custom 230 volt PSC motors with 2 or 3 wire variable speed control option
- Corrosion-resistant molded fiberglass construction
- Poly discharge cones for ultimate performance
- Self-slope design sheds moisture
- PVC coated guard screens
- PVC shutters are impact resistant, self-sealing with extruded PVC frames
- Optional cast aluminum blades, winter doors and dual-voltage motors on most models
- Optional white or black colors on fans and PVC louvers

Fiberglass Flush-Mount Direct Drive Fans

FW Fan Series

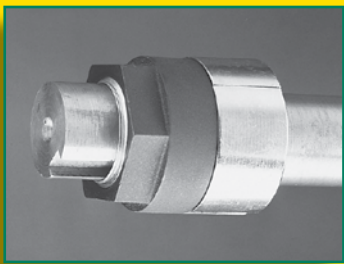
Features:

- Matching blades and energy-efficient motors provide maximum CFM/watt of electrical power
- Unique four-point stainless steel motor mount design provides minimum air restriction and vibration-free performance
- Sealed lifetime lubricated motors with built-in thermal overload protection
- One-piece, corrosion-resistant molded fiberglass construction
- Sloped wall housing design for easy cleaning and complete condensation drainage
- Interior flush-mount, self-trimming design eliminates obstructions in alleyways
- PVC shutters are impact resistant, self-sealing with extruded PVC frames
- PVC coated guard screen
- Optional wind diverters available

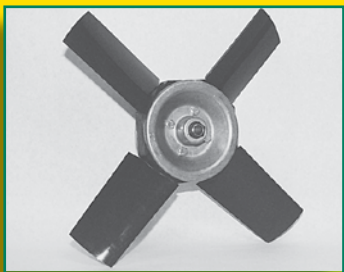


FW Fan Series

Power Miser Fan Series



TranTorque Fitting locks tight on motor shaft, no set screws to loosen and allows easy change-out of blade and motor



Composite Blades offer multi-wing design, cast aluminum hub and individual replacement blades

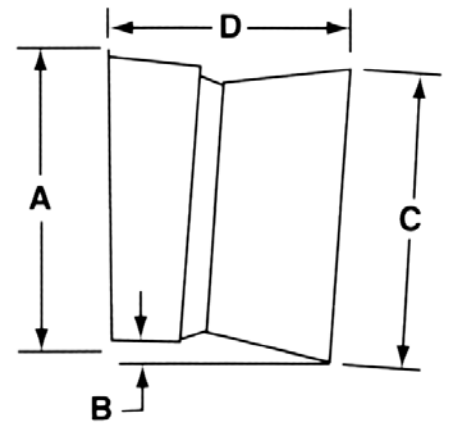


Performance You Can Count On

Our ventilation experts can also assist with retrofitting an existing or designing a new facility for maximum efficiency.

Dimensions for Power Miser Fans

	PM-12"	PM-16"	PM-21"	PM-24"
"A"	22.75"	27.25"	31"	33"
"B"	4.75"	5.5"	5.5"	5.5"
"C" Long Cone	18.5"	24"	28.75"	32"
"C" Short Cone	N/A	N/A	N/A	N/A
"D" Long Cone	32"	34"	35"	38"
"D" Short Cone	N/A	N/A	N/A	N/A
Rough Opening	18.5"x 18.5"	23"x 23"	26.5"x 26.5"	29"x 29"



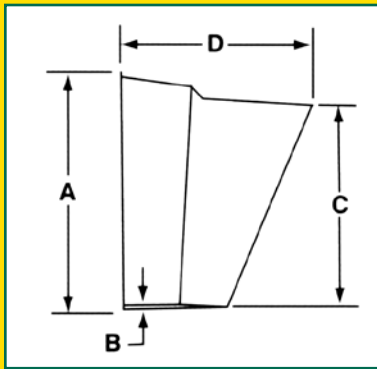
Models

CFM vs. Static Pressure (Inches WC)

Model	Blade	HP	Voltage	Amps ¹	RPM ¹	0		.05		.10		.15		BESS #
						CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	
PM12^140MPA	Composite	1/4	230	0.9	1719	1933	10.2	1855	9.7	1779	9.1	1691	8.6	95319
PM16^140MPA	Composite	1/4	230	1.0	1694	3140	14.0	3040	13.2	2920	12.3	2790	11.4	95327
PM21^140MPA	Composite	1/4	230	1.5	1591	4780	14.8	4500	13.6	4260	12.6	3970	11.6	95324
PM21^190LPA	Composite	1/2	230	1.8	1696	5550	14.0	5350	13.1	5170	12.4	4960	11.6	95325
PM24^210MPA	Composite	1/2	230	2.1	1045	7000	14.9	6670	13.9	6310	13.0	5930	12.1	01304

Notes: 1. @ .05 static pressure and 230 volts/60Hz
2. Bess Labs website is www.bess.uiuc.edu

^ represents housing color; W-White, B-Black



Dimensions for FW Fans

	FW-08"	FW-10"	FW-12"	FW-16"	FW-20"	FW-24"	FW-36"
"A"	13.5"	15.25"	20"	22.75"	26.75"	30.25"	43"
"B"	1"	.75"	.5"	.5"	.75"	2.5"	2.5"
"C"	8.25"	10.25"	12.25"	16.75"	20.75"	24.5"	36.75"
"D"	20.5"	21.5"	25.5"	25.5"	23"	24.5"	35.5"
Rough Opening	9.5"x 9.5"	11.125"x 11.125"	16"x 16"	19"x 19"	22.5"x 22.5"	26.5"x 26.5"	39"x 39"

Models

CFM vs. Static Pressure (Inches WC)

Model	Blade	HP	Voltage	Amps ¹	RPM ¹	0		.05		.10		.15		BESS #
						CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	
FW08W120MSA	Steel	1/15	230	0.3	3504	574	7.2	538	6.4	521	5.9	501	5.7	91099
FW10W130MSA	Steel	1/6	230	1.3	3420	1263	4.2	1244	4.1	1220	3.9	1195	3.8	91101
FW12W140MPA	Composite	1/4	230	1.4	1741	1682	7.3	1608	6.9	1517	6.4	1393	6.0	91103
FW12W270MPA	Composite	1/4	115/230	N/A	1741	1682	7.3	1608	6.9	1517	6.4	1393	6.0	N/A
FW16W140MPA	Composite	1/4	230	1.8	1691	3023	8.8	2911	8.4	2793	8.0	2664	7.7	91107
FW16W170MPA	Composite	1/4	115/230	N/A	1691	3023	8.8	2911	8.4	2793	8.0	2664	7.7	N/A
FW20W140MPA	Composite	1/4	230	1.5	1595	3810	11.7	3589	11.0	3395	10.3	3200	9.6	02344
FW20W270MPA	Composite	1/4	115/230	N/A	1595	3810	11.7	3589	11.0	3395	10.3	3200	9.6	N/A
FW20W190LPA	Composite	1/2	230	2.0	1688	4613	10.0	4479	9.7	4320	9.3	4154	8.8	02343
FW20W290LPA	Composite	1/2	115/230	N/A	1688	4613	10.0	4479	9.7	4320	9.3	4154	8.8	N/A
FW24W210MPA	Composite	1/2	230	2.0	1009	5515	11.9	5188	11.4	4802	10.6	4302	9.7	02345
FW24W200MPA	Composite	1/2	115/230	N/A	1009	5515	11.9	5188	11.4	4802	10.6	4302	9.7	N/A
FW36W280MSA	Steel	1/2	230	2.6	818	10213	18.0	9506	16.2	8662	14.4	7772	12.7	02342

Notes: 1. @ .05 static pressure and 230 volts/60Hz
2. Bess Labs website is www.bess.uiuc.edu



Performance You Can Count On
www.val-co.com

Call your local VAL-CO representative or distributor for more information on this and other fine quality products.

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