# 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

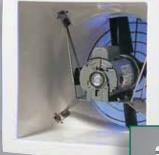
#### Features:

- Matching blades and energy-efficient motors provide maximum CFM/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
- Sloped housing design sheds moisture
- Powder coated guard screens
- PVC shutters are impact resistant, self-sealing with extruded PVC frames
- Optional winter doors and dual-voltage motors on most models
- Optional white or black colors on PVC louvers (Ask about the Sable Fan for black interior housing.)

## **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
- Housing and cone are constructed as one-piece, corrosion-resistant fiberglass
- 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
- Powder 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

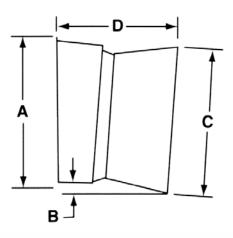


Performance You Can Count On

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"
" <b>A</b> "	22 <b>.</b> 75"	27 <b>.</b> 25"	31"	33"
<b>"B"</b>	<b>4.75</b> "	5.5"	5.5"	5.5"
"C"	18 <b>.5"</b>	24"	28.75"	32"
"D"	32"	34"	35"	38"
Rough Opening	18.5"x 18.5"	23"x 23"	26.5"x 26.5"	29"x 29"



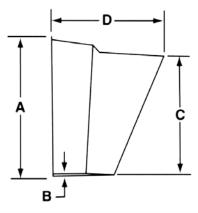
### Models

### CFM vs. Static Pressure (Inches WC)

						0		.05		.10		.15		
Model	Blade	HP	Voltage	HZ	Phase	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	BESS #
PM12W140MPA	Composite	1/4	230	60	1	1910	9.3	1810	8.8	1720	8.4	1600	7.5	18067
PM16W140MPA	Composite	1/4	230	60	1	3050	12.6	2940	11.9	2790	10.9	2620	10.0	18071
PM21W190LPA	Composite	1/2	230	60	1	5550	14.0	5350	13.1	5170	12.4	4960	11.6	95325
PM24W210MPA	Composite	1/2	230	60	1	6480	14.1	6120	13.2	5710	12.4	5230	11.4	18069

Note: Bess Labs website is www.bess.uiuc.edu

<b>Dimensions for FW Fans</b>											
	FW-12"	FW-16"	FW-20"	FW-24"							
" <b>A</b> "	20"	22 <b>.75"</b>	26 <b>.</b> 75"	30.25"							
"B"	.5"	.5"	.75"	2.5"							
"C"	12.25"	16.75"	20.75"	24.5"							
"D"	25 <b>.</b> 5"	25.5"	23"	24.5"							
Rough Opening	16"x 16"	19"x 19"	22 <b>.5"</b> x 22 <b>.5"</b>	26.5"x 26.5"							



#### **Models**

#### CFM vs. Static Pressure (Inches WC)

						0		.05		.10		.15		
Model	Blade	HP	Voltage	HZ	Phase	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	CFM	Cfm/Watt	BESS #
FW12W270MPA	Composite	1/4	115/230	60	1	1682	7.3	1608	6.9	1517	6.4	1393	6.0	91103
FW16W270MPA	Composite	1/4	115/230	60	1	3023	8.8	2911	8.4	2793	8.0	2664	7.7	91107
FW20W190LPA	Composite	1/2	230	60	1	4613	10.0	4479	9.7	4320	9.3	4154	8.8	02343
FW24W210MPA	Composite	1/2	230	60	1	5515	11.9	5188	11.4	4802	10.6	4302	9.7	02345

**Note:** 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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