

## SOURCE BOOK





Pinnacle Climate Technologies develops, manufactures and distributes heating and ventilation solutions through commercial, industrial, agricultural, DIY and other retail channels throughout the world. With manufacturing in North America and Asia, Pinnacle serves a diverse customer base in over 64 countries, on every continent. With brands that include Schaefer®, Master®, Remington®, ProTemp®, Americ®, and STANLEY®, Pinnacle is positioned as the global leader in industrial/construction heat, and portable ventilation products.

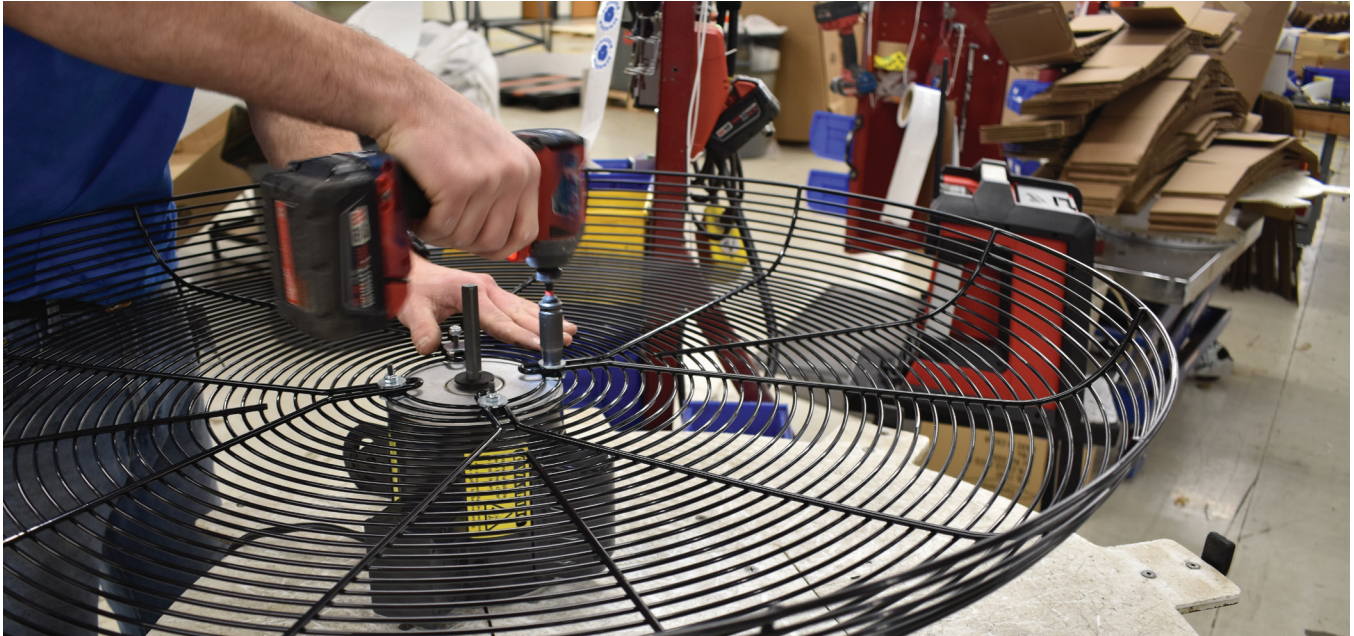
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#### **THE PEAK OF CLIMATE TECHNOLOGY BEGINS WITH PINNACLE**

We know that having quality products is essential when solving any climate obstacle you face. That's why we ensure a high standard of excellence and care goes into every one of our solutions. Through continuous improvement and testing, our products are built to last and deliver. Proudly designed, developed, or assembled in the USA, trust that our equipment will work as hard as you.







### Pinnacle Climate Technologies Testing Standards

At Pinnacle, all of our fans and heaters are tested in-house using certified and calibrated test equipment and tests. Our most in-demand fans are tested at AMCA-certified BESS Lab at the University of Illinois in accordance with the latest ANSI/AMCA Standard 230-12. Although many energy rebate-granting agencies will only accept results from BESS Lab, Pinnacle's in-house performance results are also accurate and reliable. Performance results obtained at BESS Lab are marked with this stamp **BL** and in-house performance results are marked with this stamp **S**.

Note: Circulation fan performance tests yield a thrust measurement. Like most circulation fan manufacturers, Pinnacle Climate Technologies continues to use ANSI/AMCA Standard 230-99 to convert thrust into airflow.

### Product Warranty, Terms and Conditions Policies

Warranty policies are outlined on page 3 in this source book and on our website. For full payment, lead time and shipping and receiving policies go to [www.pinnacleclimate.com](http://www.pinnacleclimate.com) under "Policies" for more information.

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### Hours of Operation

Monday - Friday

8:00 a.m. to 5:00 p.m. CST

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All information, illustrations and specifications in this catalog are based on the latest product information available at the time of printing.

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Generally, Schaefer branded products are assembled in Pinnacle's US assembly plant from parts sourced in the US and elsewhere, while Master branded products are assembled in global locations including the United States with parts sourced in China and around the world. In this Source Book products are described as follows:

- "Made in the USA" means we assemble the product in the US with NAFTA country motors.
- "Assembled in the USA" means we assemble the product in the US with non-NAFTA country motors.
- "Imported" (or no marking) means we import the assembled product.





## PINNACLE CLIMATE TECHNOLOGIES LIMITED WARRANTY

Pinnacle Climate Technologies (PCT) provides the following limited warranty from the date of invoice to the initial purchaser of our products or to its customer with a dated proof of purchase:

I. A limited warranty with a brand- or product-specific term (see Section III below) applies to all products, components and assemblies provided by PCT that prove to be defective in material or workmanship, unless noted below as an exception.

- Any such defective product will be replaced or repaired at PCT's option.
- Defective products shall only be returned to PCT with the approval of PCT and at customer's expense.
- Replacement products or repair parts will be shipped to customer at PCT expense.
- Field repairs will be performed by customer at customer's expense.

II. This limited warranty does not cover:

a. Failure, damage or malfunction as a result of:

- Improper installation or installation not in accordance with installation instructions.
- Operating conditions that reasonably would be expected to damage the product and/or vary from PCT's operating instructions.
- Misuse, abuse, negligence, alteration, or accident.
- Damage incurred while transporting the product.
- Improper operation of the product.
- Lack of appropriate or regular maintenance of the product, including, but not limited to, operating the product with debris buildup on the motor or blade.

b. Loss of time, inconvenience, loss of use of the product or other consequential or incidental damages.

c. Wear part replacement.

d. Superficial or cosmetic rust or corrosion.

e. Damage to a product whose name plate has been removed.

f. Damage to a product that has been modified in any way.

### III. Warranty Term\*

BRAND OR PRODUCT	WARRANTY TERM	BRAND OR PRODUCT	WARRANTY TERM
Americ®	3 Years	Low Intensity Radiant Heater Tubes	5 Years
Schaefer®	2 Years	Washdown Duty Fans with VWD motors	3 Years
Master® (Heaters & Fans)	1 Year Limited	Washdown Duty fans with EWD Motors	1 Year
Remington® (Heaters & Fans)	1 Year Limited	Polyethylene Exhaust Fan Housings	25 Years
Protemp® (Heaters & Fans)	1 Year Limited	Fiberglass Exhaust Fan Housings	15 Years
Heatstream™	1 Year Limited	High Intensity Gas Radiant Heaters	1 Year
Inflation Blowers (Standard)	1 Year	Zubri™ Portable Patio Heaters	1 Year
Inflation Blowers (Economy)	180 Days	HotZone® Electric Elements	120 Days
Evaporative Cooling Pads	180 Days	Heat Hog® (Heaters)	1 Year
Quartz Radiant Heater Bulbs	120 Days		
Low Intensity Radiant Heater Burners	5 Years		

\* PCT reserves the right to add or remove brands, products or components to/from this Warranty Term List at any time. If there is a warranty term discrepancy between this Warranty Term List and the product's operating manual, the shorter of the terms shall apply.

### IV. Other

- There are no warranties of merchantability or fitness of use.
- PCT reserves the right to change product designs and specifications without prior notice or liability.
- The above constitutes the sole warranty offered by Pinnacle Climate Technologies.

Update Date: December 2022



## SCHAEFER®

### VERSA-KOOL® DEEP GUARD AND F5™ CIRCULATION FANS

Maximize air flow, reduce heat stress and improve air quality with Schaefer's deep-guard circulation fans. Unrivalled in the industry, these fans are engineered to produce greater air movement and superior cooling with less noise. You don't hear them, or see them. You only feel them!

#### FEATURES and BENEFITS

- Deep-guard design for high airflow, low noise levels and safety
- Matched high quality motors and blades for maximum efficiency
- Powder-coated steel guards for increased durability and corrosion resistance
- Hot-dipped galvanized guards on VK12-GA and VK20-GA models for even greater rust protection\*
- Powder-coated steel ceiling mounting bracket and power cord included
- Wide variety of mounting options available for flexible and easy installation
- Variable speed controls available
- Misting kits available for even greater cooling



White Model	Black Model	Diameter	Variable Speed	Phase	Hp	Volts	Amps	CFM	Thrust (lbf)	RPM	Weight	Tested
VK8	N/A	8"	N	1	1/100	115	0.6	450	.19	1550	8	S
<b>Best Seller!</b> VK12	VK12-B	12"	Y	1	1/10	115/230	1.3/.65	1470	.85	1725	18	BL
VK12-GA*	N/A	12"	Y	1	1/10	115/230	1.3/.65	1470	.85	1725	18	BL
VK12TF-SPM-W	N/A	12"	Y	1	1/10	115/230	1.3/.65	1510	.90	1725	18	BL
<b>Best Seller!</b> VK20	VK20-B	20"	Y	1	1/3	115/230	3.8/1.9	5470	4.26	1725	37	BL
VK20-3	VK20-B-3	20"	N	3	1/2	230/460	1.56/.78	5830	5.06	1750	37	S
VK20-GA*	N/A	20"	Y	1	1/3	115/230	3.8/1.9	5470	4.26	1725	37	BL
VK24	VK24-B	24"	Y	1	1/2	115/230	4.8/2.4	7860	6.10	1725	46	BL
VK24-3	VK24-B-3	24"	N	3	1/2	230/460	1.56/.78	7750	5.90	1750	46	BL
<b>Best Seller!</b> N/A	F5-24	24"	Y	1	1/2	115/230	4.8/2.4	7680	5.80	1725	43	BL

Note: Other motor, blade and mount combinations available. Mount models without OSHA guards seven feet or higher.  
\* model is a galvanized steel unit.

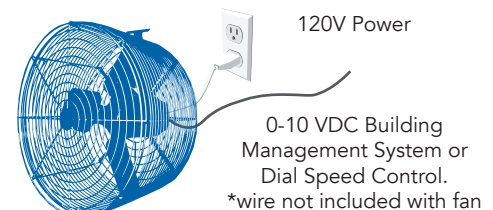
## NEW! SCHAEFER® VERSA-KOOL® HIGH EFFICIENCY CIRCULATION FANS

The same legendary fans you are used to, now featuring the latest in motor efficiency technology. Multiple fans can easily be controlled via the 0-10 VDC control wire connection.

#### FEATURES and BENEFITS

- Permanent magnet, electronically commutated motor for maximum energy savings. Which means higher efficiency, lower noise level, and less heat generation.
- Variable speed functionality via 0-10VDC for easy control options and direct connection to building management system. No more time wasted going fan to fan to turn them down or off when needed.
- 300-1800 RPM, these fans have the ability to maintain full torque at low speeds which means the fan is still producing efficient airflow even when set to low.

Model	Diameter	Volts	Hz	Amps	CFM
VK20-HE	20"	115/208-277	60/50	4.4/ 2.8-2.4	6,070
VK24-HE	24"	115/208-277	60/50	6.7/ 4.1-3.4	8,725



#### BUILDING MANAGEMENT SYSTEM OR DIAL SPEED CONTROL CONNECTION

Simple connection to building management system for single point of control, or dial speed control. 0-10 VDC circuit already included with motor. Wiring for building management system not included.



**SCHAEFER®****36" AND 42" VERSA-KOOL® YOKE-MOUNT CIRCULATION FANS**

These durable and aesthetically pleasing fans feature a high airflow with a wide airflow pattern, reducing the number of fans needed for complete coverage.

- Powerful ½ hp motor provides high airflow with a wide airflow pattern for excellent coverage
- High-density polyethylene housing for superior corrosion and moisture resistance, wide temperature range capability and high stress crack, wear and abrasion resistance
- Wide-spaced steel guards dipped in zinc and powder coated for superior corrosion resistance
- Matched thermally protected TEAO motors and blades for high performance and long life
- 19" T-shaped, powder-coated steel fan ceiling mount included



VK36

Model	Diameter	Phase	Mount Included	Cord Included	Hp	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
<b>VK36*</b>	36"	1	Y	N	1/2	115/230	7.0/3.5	5.83	11,400	825	70	BL
<b>VK36-3</b>	36"	3	Y	N	1/2	230/460	2.3/1.2	5.82	11,380	825	70	BL
<b>VK42*</b>	42"	1	Y	N	1/2	115/230	7.0/3.5	7.13	14,850	825	75	BL
<b>VK42-3</b>	42"	3	Y	N	1/2	230/460	2.3/1.2	6.28	13,970	825	75	BL

\* Single-phase speed control compatible

**SCHAEFER®****36" DIRECT FLOW YOKE-MOUNT BASKET FANS**

See why this is Schaefer's most popular 36" agriculture circulation fan. Top range airflow with a narrow pattern delivers high volume, fast moving air to cool livestock.

- Powerful ½ hp motor provides high airflow with a narrow airflow pattern for very high air speeds and effective cooling
- Thermally protected TEAO motors with matching blades for high performance and long life
- Safety-spaced steel guards dipped in zinc and powder coated for superior corrosion resistance
- Easy-open guards for cleaning and/or blade replacement
- 19" T-shaped, powder-coated steel fan ceiling mount included



36DF

Model	Diameter	Phase	Mount Included	Cord Included	Hp	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
<b>36DF*</b>	36"	1	Y	N	1/2	115/230	7.0/3.5	7.74	13,140	825	70	BL
<b>36DF-3</b>	36"	3	Y	N	1/2	230/460	2.3/1.2	7.63	12,970	825	70	BL

\* Single-phase speed control compatible

**SCHAEFER®****36" VERSA-KOOL® OSCILLATING WALL-MOUNT AND CHAIN-MOUNT FANS**

Engineered for maximum airflow and high efficiency, Schaefer's 36" oscillating or chain-mounted circulation fans can reduce heat stress and maximize air quality in industrial or commercial facilities, without driving up operating costs.

- Deep guard design for unmatched performance at low quiet noise levels; rated up to 11,700 CFM!
- High-density polyethylene housing for superior corrosion and moisture resistance, wide temperature range capability and high stress crack, wear and abrasion resistance
- Wall mounts provide 90 degrees of oscillation for cooling larger areas
- Misting kits available for even greater cooling



VKC36



VKWO36-B

White Model	Black Model	Diameter	Phase	Mount Included	Cord Included	Hp	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
<b>VKC36*</b>	N/A	36"	1	N	N	1/2	115/230	7.0/3.5	5.98	11,690	825	71	BL
<b>VKC36-3</b>	N/A	36"	3	N	N	1/2	230/460	2.3/1.2	5.98	11,690	825	71	S
<b>VKWO36*</b>	<b>VKWO36-B*</b>	36"	1	Y	Y	1/2	115/230	7.0/3.5	5.98	11,690	825	130	BL

\* Single-phase speed control compatible

MOUNT MODELS WITHOUT OSHA GUARDS SEVEN FEET OR HIGHER.



## SCHAEFER®

### GALVANIZED STEEL PANEL FANS

Designed for the demanding environments in agricultural livestock applications, Schaefer's galvanized steel panel fans combine quiet operation with low cost, high airflow, and high air speeds for high ROI cooling. Engineered with a belt driven motor for facilities requiring large volumes and velocities of air to minimize motor stress, and streamline equipment maintenance.

#### FEATURES and BENEFITS

- Industry-leading airflow and efficiency with airflows up to 40,000 CFM and efficiencies up to 30 CFM/W
- Lab-tested design for maximum performance and quiet operation
- Heavy-gauge galvanized and powder-coated steel components
- Thermally protected TEAO motors for long life
- Optional post and column mounts available
- Ships fully assembled complete with belt tensioner

**WARNING:**  
Using a VFD to speed control a motor that is not VFD compatible voids the Pinnacle warranty.



603GP112-3V-HV

#### GALVANIZED PANEL FAN OPTIONS

Diameters: 24", 36", 48", 52", 54" and 60"

Configurations: Direct-drive (24" and 36"); belt-drive (36", 48", 52", 54" and 60")

Blade Type: Galvanized steel

Blade Style: 3-wing or 5-wing

Motor Horsepower: 1/2, 3/4, 1, 1-1/2 or 2

Motor Phase: 1-phase or 3-phase



Model	Diameter	Hp	Phase	Volts	Amps	CFM	CFM/W	Thrust (lbf)	Thrust Efficiency (lbf/kW)	Tested
<b>523GP1-27</b>	52"	1	1	115/230	9.8/4.9	24,600	23.9	24.75	24.0	BL
<b>523GP1-3V-27*</b>	52"	1	3	208-230/460	3.2/1.6	28,400	18.5	33.41	21.70	BL
<b>543GP1</b>	54"	1	1	115/230	8.6/4.3	24,300	29.1	22.82	27.3	BL
<b>543GP1-3</b>	54"	1	3	208-230/460	3.2/1.6	26,500	25.3	28.0	26.7	BL
<b>543GP112</b>	54"	1-1/2	1	208-230	6.8-6.4	29,800	19.6	35.6	23.5	BL
<b>543GP112-3*</b>	54"	1-1/2	3	208-230/460	5.0/2.5	30,400	20.9	34.98	24.0	BL

\* 3-phase models available with VFD compatible motors.

Note: Other motor, blade and mount combinations available

Tested at AMCA 230-12

## SCHAEFER®

### 36" DIRECT-DRIVE GALVANIZED PANEL FANS

Schaefer's 36" panel fan was designed with 3-wing galvanized blades and 1/2 hp single- or 3-phase motors. Use in agricultural buildings requiring large volumes and velocities of air movement. Ideal for free stall barns, feed lines, parlors, and holding pens.



363P12DD



Model	Hp	Phase	Volts	Amps	CFM*	CFM/W*	Thrust (lbf)	Thrust Efficiency (lbf/kW)	VFD Capable	Tested
<b>363P12DD</b>	1/2	1	115/230	7/3.5	10,083	21	9.19	19.1	No	BL
<b>363P12DD-3</b>	1/2	3	230/460	2.3/1.2	9,810	22.8	8.71	20.3	No	BL

## SCHAEFER®

### 54" HIGH-EFFICIENCY GALVANIZED PANEL FAN

Schaefer 54" high-efficiency panel fans are designed with large air movement and maximum performance in mind. Built maintenance-free with no belts or pulleys to change and heavy-duty 3-wing galvanized blades. Use in agricultural buildings requiring large volumes and velocities of air movement. Ideal for free-stall barns, feed lines, parlors, and holding pens.



543GP2-3-HE



Model	Hp	Phase	Volts	Amps	CFM*	CFM/W*	Thrust (lbf)	Thrust Efficiency (lbf/kW)	VFD Capable	Tested
<b>543GP2-3-HE</b>	2	3	400/460	2.6/2.2	29,380	25.66	34.41	30.14	Yes	S

MOUNT MODELS WITHOUT OSHA GUARDS SEVEN FEET OR HIGHER.

\*Specifications are subject to change without prior notice



**SCHAEFER®****52" POLYMER PANEL FANS**

Sophisticated and impact resistant, Schaefer 52" polymer panel fans deliver an incredible amount of air and draw very little energy, thanks to whisper-quiet belt-drive design. Ideal for agricultural facilities with higher susceptibility to corrosion and "show dairies" in search of the perfect aesthetic.

**FEATURES and BENEFITS**

- Polymer housing with UV inhibitors and gloss finish for durability and corrosion resistance
- Heavy-duty, totally enclosed, maintenance-free, energy-efficient motors for long life
- Galvanized (3- or 5-wing), stainless (6-wing) blades available
- Engineered 1 hp motor



523P1

**BEST SELLERS**

Model	Diameter	Hp	Phase	Volts	Amps	CFM	CFM/W*	Thrust (lbf)	Thrust Efficiency (lbf/kW)	Tested
523P1	52"	1	1	115/230	9.8/4.9	23,700	24.4	24.3	25.0	BL
523P1-3	52"	1	3	208-230/460	3.2/1.6	24,200	23.4	24.7	23.9	BL

Tested at AMCA 230-12

**SCHAEFER®****PANEL FAN MOUNTING OPTIONS**

PANEL FAN MOUNTING OPTIONS		
Model	Description	Fan Size
PANELPM-UKIT	Galvanized fan mount with 90 degree bend for mounting panel fans to square post includes brackets and hardware	36" - 54"

**DON'T SEE WHAT YOU'RE LOOKING FOR?**

Call Customer Care at 1.800.779.3267 or visit [www.schaeferventilation.com](http://www.schaeferventilation.com)



# SCHAEFER®

## 36" VERSA-KOOL® EXTREME CIRCULATION FANS W/OPTIONAL MISTING

The Versa-Kool Extreme Circulation Fan is a compact, powerful air mover specifically engineered to push high speed air streams over a long distance. The optional misting package provides a simple, yet highly effective and cost competitive means for outfitting large dairies with evaporative cooling solutions with minimal install time.

### FEATURES and BENEFITS

- Powerful 3/4 HP direct drive motor provides high airflow with an extended air pattern for excellent coverage
- High-density polyethylene housing for superior corrosion and moisture resistance, wide temperature range capability and high stress crack, wear and abrasion resistance
- Durable air straighteners made from 304 Stainless Steel for precisely directing airflow
- Matched thermally protected TEAO, 3-phase motors and blades for high performance and long life
- Misting option comes fully assembled with industry standard nozzles putting out over 32 gallons per hour per fan
- All misting components are tested and high pressure rated for 300+ psi supply pressure
- Misting package features tool free maintenance with simple twist-on components



VKX36MF-334-3



Model	Diameter	Phase	Hp	Hz	Volts	Amps	Thrust (lbf)	CFM	RPM	Efficiency CFM/W	Thrust Efficiency (lbf/kW)	Tested
VKX36-334-3-50	36"	3	3/4	50	190/380	3.8/1.9	13.0	16,960	660	24.06	18.5	S

# BIGDOG®

## 72" INDUSTRIAL CIRCULATION FAN

Got a large space that needs a lot of air circulation? Look no further than the Bigdog®. Unlike ceiling fans that move a lot of air at low speeds with minimal cooling, the Bigdog moves massive amounts of air at high speeds for extremely efficient and effective cooling.

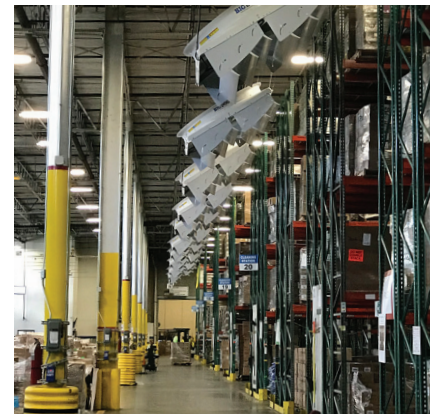
The ultimate multi-tasker, Bigdog provides the temperature control your facility needs in the summer to stay safe and more productive, and de-stratifies (pushes warm air down from the ceiling) in the winter to increase comfort and lower energy costs. One Bigdog fan can replace up to 20 smaller circulation fans and fits conveniently in corridors/aisles and between sprinklers.

### FEATURES and BENEFITS

- 60,500 CFM of air movement and personnel cooling for over a 200 x 35 foot area
- Extremely quiet operations, at even the highest speeds, allowing for easy conversation and more comfortable working conditions
- Durable fiberglass air deflectors for adjustable airflow
- Specially designed cable hanging kit available for proper placement to deliver maximum airflow.
- Variable-speed drive option for smooth speed adjustment requiring as little as 300 watts of power, leading to best in class energy efficiency of 40 CFM/W



BD72-208460-3



Model	Diameter	Phase	Hp	Volts	Amps (Max)	RPM	Thrust (lbf)	CFM	Tested
BD72-208460-3*	72"	3	3	230/460	8.7	300/50	48.54	64,500/10,000	S
<b>ACCESSORIES</b>									
BDCABLEKIT15	BIGDOG ceiling hanging kit (4x15' cables and hardware)								
BDVFD400N1	BIGDOG variable frequency drive speed control 400/480V, 3-phase, NEMA 1, indoor only								
BDVFD240N1	BIGDOG variable frequency drive speed control 200/240V, 1 & 3-phase, NEMA 1, indoor only								

MOUNT MODELS WITHOUT OSHA GUARDS SEVEN FEET OR HIGHER.

Best Seller!



**SCHAEFER®****WASHDOWN DUTY CIRCULATION FANS**

Increase productivity and improve work area safety with high-performance Schaefer washdown duty air circulators.

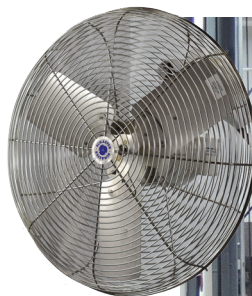
Designed to withstand frequent washing and for long life in wet and moist environments, these fans are ideal for food and beverage processing facilities, kitchens, hospitals and other clean, corrosive or humid environments.

**TWO BLADE CHOICES:****Stainless Steel Blade**

Excellent corrosion resistance. Electro-polished surface for easy cleaning and minimal bacteria growth. Meets USDA, FDA and NSF/ANSI/3-A standards. Do not pressure wash while operating.





**Polypropylene Blade**

Lower cost option with strong corrosion resistance. Excellent tolerance to a broad range of chemicals. Lighter weight option. Do not pressure wash while operating. The only blade choice for anodized aluminum motors.



24CFO-EWDS



Model	Diameter	Blade	Hp	Phase	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight
<b>STAINLESS STEEL MOTOR</b>	Best for frequent washdown. IP55 enclosure protection. Meets USDA and NSF/ANSI/3-A standards. 3-phase is VFD compatible. 2-YEAR WARRANTY							 		
20CFO-SWDS	20"	SS	1/4	1	115/230	2.6/1.3	4.05	4395	1725	29
24CFO-SWDS	24"	SS	1/4	1	115/230	2.6/1.3	4.70	5670	1725	32
24CFO-SWDS-3-Q	24"	SS	1/2	3	208-230/460	1.9-1.77/0.89	4.82	6880	1200	55
24CFO-SWDS-HV-Q	24"	SS	1/2	1	115/230	5.4/2.7	5.53	7330	1075	50
30CFO-SWDS-Q	30"	SS	1/2	1	115/230	5.4/2.7	7.46	10,710	1075	60
30CFO-SWDS-3-Q	30"	SS	1/2	3	208-230/460	1.96-1.77/0.89	6.54	10,045	1200	65
<b>EPOXY COATED MOTOR</b>	Best for occasional washdown. USDA- and FDA- approved corrosion-resistant white epoxy finish. IP55 enclosure protection. 1-YEAR WARRANTY							 		
24CFO-EWDS	24"	SS	1/3	1	115/230	4.9/2.5	5.09	7020	1700	33
<b>ACCESSORIES</b>										
<b>NEW!</b> WMTA-OSC-SS	Stainless steel fully enclosed washdown duty wall/post mount with oscillation.									



WMTA-OSC-SS



## SCHAEFER®

### OSHA-COMPLIANT FIXED MOUNT CIRCULATION FANS

These fixed and oscillating circulation fans meet all OSHA safety regulations while delivering maximum airflow for optimal facility ventilation. These 2-speed fans are versatile enough to be mounted on a ceiling, wall, pedestal, or cart.



Twister™ oscillating fans rotate 90°, cooling up to 4000 square feet. This oscillating motor utilizes the highest quality metal gear design and construction, providing unparalleled strength and reliability in a fan market saturated with less dependable plastic gears.

#### FEATURES and BENEFITS

- Matched direct drive motors and blades for highest achievable levels of airflow, rated up to 12,000+ CFM
- Thermally protected, heavy-duty, maintenance-free, 2-speed motors for long life
- Powder-coated steel guards for durability and corrosion resistance



24CFO



White Model	Black Model	Diameter	Speeds	Hp	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
NON-OSCILLATING FAN HEAD - Made in USA											
20CFO	20CFO-B	20"	2	1/4	115	2.9/1.6	2.45/1.34	4050/3000	1100/800	30	S
24CFO	24CFO-B	24"	2	1/4	115	2.9/1.6	2.85/1.51	5280/3850	1100/800	34	S
-	24CFO-HL	24"	1	1/2	115/208-230	9.8/4.9	6.75	7980	1725	50	S
30CFO	30CFO-B	30"	2	1/2	115	5.2/2.8	5.89/3.24	9420/7000	1075/850	53	S
-	30CFO-HL	30"	1	1/2	115/208-230	9.8/4.9	6.77	10,670	1725	68	S
36CFO	36CFO-B	36"	2	1/2	115	5.2/2.8	6.82/3.56	12,120/8750	1075/850	59	S
TWISTER OSCILLATING FAN HEAD - Assembled in USA											
TW20W	TW20B	20"	2	1/4	115	3.0	2.53/1.76	4100/3400	1075/750	33	S
TW24W	TW24B	24"	2	1/4	115	3.0	2.99/2.44	5400/4900	1075/750	37	S
TW24HVV	TW24HVB	24"	2	1/2	115	5.9	4.60/3.83	6700/6200	1075/750	37	S
TW30W	TW30B	30"	2	1/2	115	5.9	6.24/4.82	9600/8500	1075/750	62	S
TW36	-	36"	2	1/2	115	5.9	7.3/5.2	12600/10600	1075/750	68	S

Best Seller!

#### MOUNTING ACCESSORIES AVAILABLE ON PAGE 29

## SCHAEFER®

### OSHA-COMPLIANT PEDESTAL FANS AND FAN CARTS

Schaefer portable circulation fans deliver quiet, powerful, efficient and long lasting air movement for any application. Use these rugged portable fans in warehouses, work areas, loading docks, greenhouses, farms, and other locations where quality matters.

#### FEATURES

- Available with round pedestals or fan carts
- Optional wheel kit for round pedestal available by ordering FPR-Wheelkit-B



24FC-B



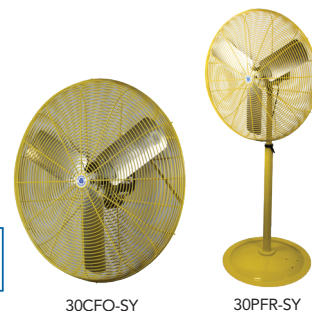
TW24B-PRB

Fan Head (see above)		Fan with Round Black Pedestal		Fan and Black Cart	
WHITE	BLACK	WHITE	BLACK	WHITE	BLACK
NON-OSCILLATING FAN HEAD - Made in USA					
20CFO	20CFO-B	20PFR	20PFR-B	20FC	20FC-B
24CFO	24CFO-B	24PFR	24PFR-B	24FC	24FC-B
30CFO	30CFO-B	30PFR	30PFR-B	30FC	30FC-B
36CFO	36CFO-B	36PFR	36PFR-B	-	-
TWISTER OSCILLATING FAN HEAD - Assembled in USA					
TW20W	TW20B	TW20W-PRB	TW20B-PRB	-	-
TW24W	TW24B	TW24W-PRB	TW24B-PRB	-	-
TW24HVV	TW24HVB	TW24HVV-PRB	TW24HVB-PRB	-	-
TW30W	TW30B	TW30W-PRB	TW30B-PRB	-	-

**SCHAEFER®****OSHA-COMPLIANT SAFETY YELLOW CIRCULATION FANS**

Schaefer's safety yellow fixed and oscillating 2-speed circulation fans have the versatility to be mounted on a wall or pedestal. These portable circulation fans deliver quiet, powerful, efficient, and long-lasting air movement that make them an ideal cooling solution for any commercial, industrial, or agricultural facility.

Ideal locations are in warehouses, work areas, loading docks, farms, and greenhouses—anywhere quality, visibility, and performance matters.



30CFO-SY

30PFR-SY

Fan Head	Fan and Pedestal	Diameter	Speed	Hp	Volts	Amps	CFM	RPM	Weight	Tested
<b>NON-OSCILLATING FAN HEAD - Made in the USA</b>										
<b>Best Seller!</b> 30CFO-Y	30PFR-Y	30"	2	1/2	115	5.2/2.8	9420/7000	1075/850	53   91	S
36CFO-Y	36PFR-Y	36"	2	1/2	115	5.2/2.8	12,120/8750	1075/850	59   98	S
<b>TWISTER OSCILLATING FAN HEAD- Assembled in USA</b>										
TW30-Y	TW30Y-PRY	30"	2	1/2	115	5.9	9600/8500	1075/750	62   100	S

**MASTER****WALL/CEILING FANS**

Master's line of fully loaded fans are great for both indoor and outdoor cooling and ventilation needs. Ideal for almost any location, these fans feature a totally enclosed motor for long product life, use in damp locations, and outdoor use.

**FEATURES and BENEFITS**

- 3 Speeds for maximum cooling power
- Available in white and black
- Totally enclosed, maintenance free, high efficiency motors with completely sealed bearings and built-in thermal overload protection
- Pull chain speed adjustments
- Fully adjustable wall or ceiling mount for 18" fans

**INDOOR/OUTDOOR USE:**  
Totally enclosed motor for use in damp locations.



MAC-18WB



MAC-18WW



Wall Model	Diameter	Speeds	Volts	Amps	CFM	Color	Tested
<b>OUTDOOR RATED WALL MOUNTED FANS</b>							
<b>Best Seller!</b> MAC-18WW	18"	3	115	1	3040/2590/1970	White	S
MAC-18WB	18"	3	115	1	3040/2590/1970	Black	S

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**SCHAEFER®****VERSA-KOOL® MOBILE DRUM FANS**

Sick of constantly replacing mobile drum fans? Schaefer mobile drum fans have "bulldog-tough" polyethylene housings with durable reinforced galvanized steel wheel carriages for increased impact and rust resistance. These are the best looking fans in the industry, are built to last, and move massive amounts of air at high velocities for years to come. A single mobile fan will not only take the place of several lower performance fans but outlive them as well, lasting for 10+ years.

**FEATURES and BENEFITS**

- High-density polyethylene housing for superior impact, abrasion and temperature-cracking resistance
- Galvanized steel base for complete corrosion resistance inside and out
- Narrow fan profile, and ergonomic pull and base handles for easy portability
- Large rubber wheels mounted inside the fan profile for convenience and safety
- Stacking tabs for storage and transportation savings included on OSHA VKM models, optional on others
- 90 degrees of movement on oscillating portable drum fans for larger cooling coverage
- 36" and 42" models available with 1" UL 507-compliant (non-OSHA) guard for lower cost and even greater airflow



VKM36-B



VKO36



VKT36-O



White Model	Black Model	Diameter	Speeds	Hp	Volts	Amps	Drive	Thrust (lbf)	CFM	RPM	Weight	Tested
<b>VERSA-KOOL DRUM FANS</b>												
VKM24-O	N/A	24"	1	1/2	115	5.2	Direct	3.18	5640	1075	48	S
VKM24-2-O	N/A	24"	2	1/2	115	5.2	Direct	3.18	5640/4580	1075	48	S
<b>Best Seller!</b> VKM36	VKM36-B	36"	1	1/2	115/230	7.0/3.5	Direct	5.8	11,400	825	85	BL
VKM36-O	VKM36-B-O	36"	1	1/2	115/230	7.0/3.5	Direct	5.3	11,020	825	85	BL
VKM36-2-O	VKM36-2-B-O	36"	2	1/2	115	5.2	Direct	3.62	11,000/7700	1075/850	105	BL
VKM42-2-O	VKM42-2-B-O	42"	2	1	115	12.3	Belt	N/A	16,600/10,900	1725/1140	140	BL
<b>VERSA-KOOL MOBILE OSCILLATING FANS</b>												
VKO36	VKO36-B	36"	1	1/2	115/230	7.0/3.5	Direct	6.0	11,700	825	180	BL
VKT36-O	VKT36-B-O	36"	1	1/2	115/230	7.0/3.5	Direct	5.74	11,700	825	107	BL

• Model numbers for UL507 guards - remove the "-O"



# MASTER

## HEAVY-DUTY INDUSTRIAL BARREL FANS

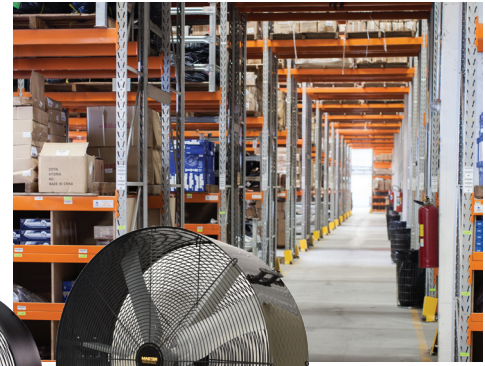
Master® high capacity heavy-duty industrial fans are designed to outshine traditional barrel fans, blowing massive amounts of air to reduce the amount of time your A/C has to run on those hot summer days. Heavy-duty steel construction includes ultra-thick barrels and guards, giving you a fan that will handle the toughest demands, and take the abuse of any industrial setting. Whether it's a workshop, warehouse, garage, outdoor area, or other large space, you can count on these fans to get the job done.

### FEATURES and BENEFITS

- 2-Speed setting
- High-efficiency industrial motor
- Heavy-duty, solid wheels
- Powerful, ultra-thick steel construction
- OSHA-compliant safety guards



MHD-36D-C



MHD-42-BDF-C



Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Certified
MAC-30D	Direct	3	1/3	30"	120	1.8	6450/5600/5100	ETL C/US
MHD-36D-C	Direct	2	1	36"	120	9.2	13700/10000	ETL C/US
MHD-36-BDF-C	Belt	2	1/2	36"	120	4.9	10400/7500	ETL C/US
MHD-42-BDF-C	Belt	2	3/4	42"	120	5.8	14800/12000	ETL C/US
MAC-48-BDF-C	Belt	2	1	48"	120	9.2	17200/10600	ETL C/US

Best  
Seller!

# MASTER

## FLOOR FANS

Master high velocity floor fans deliver fresh air quickly to localized spaces. Great for spaces with or without air conditioning. Floor fans can take the edge off your monthly energy bill by allowing you to use the A/C more sparingly. And with our efficient direct drive design, you'll conserve even more electricity. Whether it's a warehouse, garage, barn or a crowded summer gathering, the high velocity floor fans are an efficient way to cool all types of spaces.

### FEATURES and BENEFITS

- 3-Speed setting
- High-efficiency industrial motor
- Heavy-duty, solid wheels
- Powerful, ultra-thick steel construction
- OSHA-compliant safety guards



MAC-12



MAC-20F



MAC-24DCT



MAC-30BCT



Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Certified
MAC-12	Direct	3	1/5	12"	120	0.4	1500 / 1350 / 750	ETL C/US
MAC-20F	Direct	3	1/5	20"	120	0.5	4500/3950/3100	ETL C/US
MAC-24DCT	Direct	3	1/5	20"	120	0.5	4500/3950/3100	ETL C/US
MAC-30BCT	Direct	3	1/3	30"	120	1.8	7900/6300/5400	ELT C/US

Best  
Seller!



## MASTER

### PEDESTAL FANS

Master® high velocity pedestal fans deliver cooling breeze for any space at a great price. These fans have the ability to swivel and the pedestal models are height adjustable. Which allows the user to direct airflow where it's needed most.

#### FEATURES and BENEFITS

- Heavy-duty construction
- OSHA-compliant safety guards
- Adjustable direction
- 3-Speed setting
- Oscillating\*



Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Weight	Certified
MHD-30P	Direct	3	1/3	30"	120	1.7	7550/6800/5800	51	ETL C/US
MAC-24POSC*	Direct	3	1/4	24"	120	1.5	5450/4950/4450	46	ETL C/US
MAC-30POSC*	Direct	3	1/3	30"	120	1.7	7550/6800/5800	51	ETL C/US

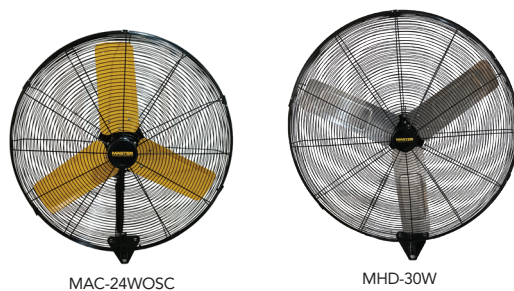
## MASTER

### WALL-MOUNTED FANS

Master® high velocity wall-mounted fans deliver cooling breeze for any space at a great price. These fans have the ability to swivel. Which allows the user to direct airflow where it's needed most.

#### FEATURES and BENEFITS

- Heavy-duty all metal construction
- OSHA-compliant safety guards
- Adjustable direction
- 3-Speed setting
- Oscillating\*



Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Weight	Certified
MHD-24W	Direct	3	1/4	24"	120	1.5	4500/4900/5450	36	ETL C/US
MHD-30W	Direct	3	1/4	30"	120	2.2	7550/6800/5800	41	ETL C/US
MAC-24WOSC*	Direct	3	1/4	24"	120	1.5	5450/4900/4500	38	ETL C/US
MAC-30WOSC*	Direct	3	1/4	30"	120	2.2	7550/6800/5800	43	ETL C/US

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**Why take the chance with "less than the best", when lives are on the line?**

Often imitated but never duplicated, Americ® Confined Space Ventilators set the industry standard when it comes to providing safe and reliable ventilation in any confined space environment. These blowers are rugged and reliable while providing unrivaled performance to ensure a safe and comfortable work environment.

#### FEATURES and BENEFITS

- Industry leading airflow in all sizes, rated from 750-10,000 CFM
- Dual wall polyethylene housing designed to withstand the harshest of conditions, providing years of durability and dependability
- Premium quality motors rated for over 100,000 hours of heavy-duty, continuous use for unmatched return on investment
- Safety tested to ETL and cETL certifications, exceeding industry standards\*>
- Positive and negative airflow (blows and extracts)
- Lightweight for easy portability
- Stacking capability to save storage space
- Extensive line of accessories for ease of use and storage, see page 16



VAF1500A/B



VAF3000A/B



VAF8000A/B



VAF3000P

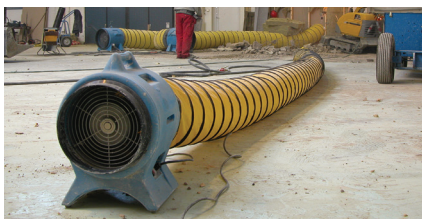


Model	Diameter	Volts	Phase	Hz	Hp	Amps	RPM	Max SP	Free Air CFM	Weight	Tested
<b>8" UTILITY VENTILATOR 18.5"H X 18.5"L X 12.5"W</b>											
VAF1500A*	8"	115	1	60	1/4	2.5	3200	1.5"	877	18	S
<b>12" INDUSTRIAL VENTILATOR 21"H X 17"L X 14"W</b>											
<b>Best Seller!</b> VAF3000A*	12"	115/100	1	60/50	1	8.0/5.7	3300/2800	3"	2796	32.5	S
VAF3000A-2*	12"	115	1	60	1	10/6.7	3300/2400	3"	2780/1875	34	S
VAF3000B*^	12"	220/240	1	50	1	4.2	2850	2.5"	2492	32.5	S
<b>20" HIGH CAPACITY VENTILATOR 27.5"H X 27.5"L X 25.5"W</b>											
VAF8000A-3*	20.5"	220	3	60/50	5	13/11	3495/2950	6.1"	9968	119	S
VAF8000B-3	20.5"	440	3	60/50	5	6.5/5.5	3495/2950	6.1"	9968	119	S

Model	Diameter	Air Consumption (CFM)	Max Inlet Pressure (psi)	Noise Level (dB)	Hp	RPM	Free Air CFM	Weight	Tested
<b>12" INTRINSICALLY SAFE PNEUMATIC VENTILATOR 21"H X 17"L X 14"W</b>									
VAF3000P*>	12"	38	100	86	1.5	3000	2063	28	S

\* ETL & cETL listed

> ETL and cETL listed for use in Class I, Division I, Groups A, B, C and D hazardous locations



## SCHAEFER®

### DUCTING

Industry-standard quality ducting for everyday use. Operating temperature range from -30°F to 150°F. Single-ply PVC vinyl-coated polyester fabric with 15-gauge spring steel wire helix and external PVC wearstrip. PVC-coated polyester fastening cuffs at both ends with industry-standard spring buckle cinches. Flame resistant.

## SCHAEFER®

### DUCT CARRIERS

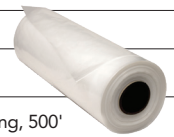
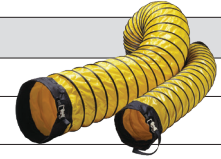
Designed to hold up to 25' of standard ducting. Keeps ducting contained, clean, protected, and dry for easy transport and longer life.



AM-DCP1225

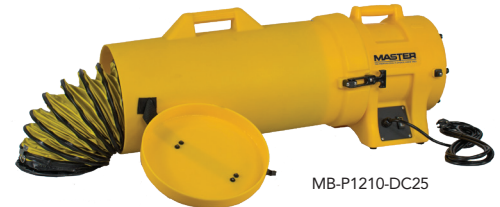
Model	Ventilator Type
<b>DUCT STORAGE</b>	
AM-DCP0825	Plastic Duct Carrier, 8"
AM-DCP1225	Plastic Duct Carrier, 12"

Model	Ventilator Type
<b>STANDARD DUCTING</b>	
AM-DS0815	8" x 15' Duct with Cinch Strap
AM-DS0825	8" x 25' Duct with Cinch Strap
AM-DS0825CB	8" x 25' Duct with Cinch Strap in Carrying Bag
AM-DS1215	12" x 15' Duct with Cinch Strap
AM-DS1225	12" x 25' Duct with Cinch Strap
AM-DS1225CB	12" x 25' Duct with Cinch Strap in Carrying Bag
AM-DS2025	20" x 25' Duct with Cinch Strap
AM-DPC1225	12" X 25' Static Conductive Duct
<b>DISPOSABLE DUCTING</b>	
AM-DDISP500	Disposable Poly Ducting, 500'
AM-DDISP500FR2	Disposable Flame Retardant Poly Ducting, 500'
<b>COUPLERS</b>	
AM-CG08	8" Coupler, Galvanized
AM-CG12	12" Coupler, Galvanized
AM-CA12	12" Coupler, Aluminum
AM-CG20	20" Coupler, Galvanized



## MASTER® ALL-IN-ONE CONFINED SPACE VENTILATORS

Master's convenient "all-in-one" confined space ventilators are the complete package and come with a powerful blower, removable duct canister, and 25' of ducting (not recommended for use with ducting greater than 25').



MB-P1210-DC25

Model	Ventilator Type	Diameter	Free Air CFM	RPM	Hp	Volts	Hz	Amps	Weight	Certified
MB-P0813-DC25	All-In-One Blower	8"	930	3450	1/3	115	60	2.1	30	ETL C/US
MB-P1210-DC25	All-In-One Blower	12"	1970	3450	1	115	60	6.5	51	ETL C/US

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## PORTABLE EVAPORATIVE COOLER

WayCool® portable evaporative coolers use the natural cooling process of water evaporation to reduce temperatures up to 30°F, at a fraction of the cost of air conditioning.

WayCool blows cooled air in a focused narrow stream at high velocities over long distances to provide a greater cooling for employees, customers, guests, equipment and livestock both indoors and outdoors!

### FEATURES and BENEFITS

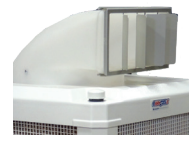
- Oscillating outlet for greater coverage up to 4,700 square feet
- Approximately 75% lower energy consumption and 50% less expensive than the equivalent capacity portable air conditioner
- Automatic low-water level shut-off to prevent pump damage
- Built-in water reservoir for standalone use or connect to a garden hose for continuous use
- Specially treated cellulose evaporative pads for long pad life
- 1 hp dimensions: Base 33" x 33" x 52" tall; 24-gallon reservoir

### OPTIONS and ACCESSORIES

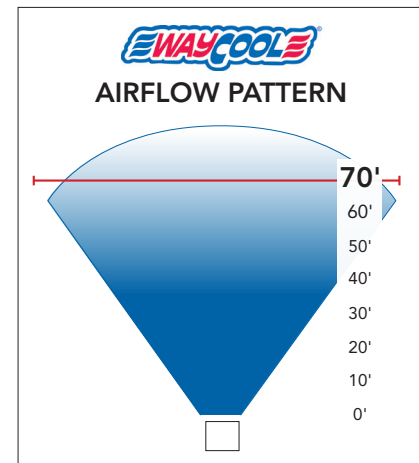
- Airstream Diffuser attaches to outlet nozzle to direct air where needed most for enhanced utility
- Replacement evaporative cooling pads
- Water conditioner and cleaner products for extended pad life and functionality
- Inlet air filters that provide easy and effective filtration
- Rugged aluminum inlet grates for increased strength and durability
- 50-Gallon water reservoir for 3 times longer use without a garden hose



WC-1HPMFAOSC

WCG-1HPMFA  
Shown with optional aluminum inlet grates.

Airstream Diffuser



White Model	Gray Model	Output	Speeds	Hp	Volts	Minimum Circuit Size (amps)	CFM Hi-Lo	Velocity Outlet (mph)	Cooling** (tons)	Cooling*** (degrees F)
WC-1HPMFA	WCG-1HPMFA	Fixed direction	2	1	115	15	3020/2040	27/19	4.0	20°
<b>Best Seller!</b> WC-1HPMFAOSC	WCG-1HPMFAOSC	Oscillating	2	1	115	15	3020/2040	27/19	4.0	20°

\*\* Cooling in tons on high at 90°F and 40% relative humidity

\*\*\* Temperature drop (inlet temp-outlet temp) at 90°F and 20% relative humidity

WAYCOOL ACCESSORIES, REPLACEMENT PADS, FILTERS, AND GRATES	
RESERVOIR-50	Versa-Filler water supply reservoir with 50 gallon tank
THC-1	Humidity controller
WC-CTAB	Evaporative cooler water conditioner treatment tabs / Blister pack of 10
WC-CLNR	Evaporative cooler cleaner / Case of 12 pint bottles
WC-GRATELG-ASET	1 hp WayCool aluminum grate
WC-1HPPADSET	WC-1HP full evaporative pad set (8 full pads required for 1 hp unit)*
WC-1HPFIL	WayCool inlet air filter, single filter - 22.63" x 23.63" x 0.3"*
WC-GRATELG-A	1 hp WayCool aluminum grate inlet for WC-1HP*
WC-GRATELG	1 hp WayCool plastic grate inlet for WC-1HP*
WC-DIFFUSER-V	1 hp WayCool airstream diffuser - Vertical spread

\* Available individually or in complete sets for greater cost savings



### RESERVOIR-50 Versa-Filler™

Triple your WayCool's cooling ability with the rugged one-piece polyethylene Versa-Filler tank mounted on a heavy-duty metal frame with 5" hard rubber casters for mobility and an 8" lid opening for easy filling and cleaning.



### THC-1 Humidity Controller

Save on energy costs and avoid saturating the air! Easily attaches to the wall or directly to the WayCool to manage humidity levels with the turn of a dial.



### WC-CLNR Pad Cleaner

Provides a one-step treatment to inhibit buildup of scale, rust and offensive odor. Conditions cooler pads to reduce air temperature. Use when buildup or odor is noticeable.







## Portable Low Pressure Misting Fan Fill it up, plug it in, turn it on and chill!™

The VersaMist® reduces air temperature by as much as 30°F by combining low pressure mist technology with high speed air movement for highly effective body cooling both indoors and outdoors. The 18", 3-speed fan provides up to seven hours of uninterrupted use and was designed for optimal portability. Ideal for cooling work areas, rehabilitation stations, outdoor events, emergency and service workers, patios, and sidelines.

### FEATURES and BENEFITS

- Available with or without wheels
- Wheeled platform designed for easy transport and setup
- 10- or 14-gallon built-in water reservoir for portability
- Adjustable fan head for targeted cooling
- Rapid mist evaporation produces 16,000 BTU/hour (1.4 tons) of cooling
- Pump and fan assembly separates from the reservoir for quick and effortless setup, cleaning and storage
- 25-foot outdoor rated power cord with integrated GFCI plug for standard wall outlet
- UL507-rated for outdoor use



PVM18C

Model	Description	Volts	Total Amps	Total Watts	Tank Capacity (gallon)	Time between fills	Weight (empty)
PVM18	VersaMist misting fan	115	2.2	250	10	5 hours	35
PVM18C	VersaMist with integrated wheels and pull handle	115	2.2	250	14	7 hours	43

Best Seller!

## SCHAEFER®

### MIST RINGS AND NOZZLES

Turn any fan into a misting fan by adding misting attachments and make air movement a super cool breeze! Easy to install. Simple to use.



LOW PRESSURE MIST KITS						
Model Number	Cooling Capacity					
With Shut-Off Valve	Fits Fan Diameter	Nozzles	gph	Btu/hr	kW	tons
MKLP12SO-3B	12"	3	1.7	13,440	3.9	1.1
MKLP20SO-4B	20"	4	2.2	17,920	5.3	1.5
MKLP24SO-4B	24"	4	2.2	17,920	5.3	1.5
MKLP30SO-5B	30"	5	2.8	22,400	6.6	1.9
MKLP36SO-6B	36"	6	3.4	26,880	7.9	2.2
MKLP42SO-7B	42"	7	3.9	31,360	9.2	2.6

MISTING NOZZLES WITH BRASS & STAINLESS STEEL INSERT	
Model	Description
BN12	LP misting nozzle, .012" orifice, 10/24 thread
BN16	LP misting nozzle, .016" orifice, 10/24 thread
BN20	LP misting nozzle, .020" orifice, 10/24 thread

Packages of nozzles available at a discount:  
• BN12-1024-4PAK (4: BN12 nozzles)

## FlipFan® FlipFan DAIRY COOLING SYSTEM



Schaefer's FlipFan® demonstrates state-of-the-art livestock cooling in any setting. Unlike fixed-fan cooling systems, FlipFan adjusts for sun angle, wind speed, temperature and humidity to keep cool air on your cows and provide maximum temperature control all day and night.

The patented system consists of advanced 36" high-velocity misting fans mounted on a horizontal rotational structure and an advanced control system that adjusts mist output and fan direction to compensate for time of day, wind speed and wind direction, and to "flip" 180 degrees to point outside of the shade for nighttime cow cooling. FlipFans install quickly and easily in the eaves of simple, flat shades with a minimum clearance of 14'.

In side-by-side tests against other leading arid climate dairy cooling systems, FlipFan provides equal or greater cow cooling, all while using less electricity and less water.

### FEATURES and BENEFITS

- 36" diameter high-velocity misting fans, with rugged polyethylene housings, 3-wing stainless steel blades, stainless steel air straighteners and choice of ½ hp or ¾ hp harsh duty motors
- 2 to 4 fans per bay, provide an average air velocity of 7 mph across the shade and up to 2 gallon/minute of evaporative cooling per bay
- 2-line, 3-stage, 300 psi stainless steel misting system
- Control System and Pump Station manages up to 84 fans and optional shade curtains, with variable mist (variable cooling) over a broad temperature range
- Environmental inputs include ambient temperature, relative humidity, wind speed and sun angle
- Control System ranges from simple manual controls to tablet or smartphone driven PLCs

## SUPERCOOLER™ SCHAEFER



SuperCooler™ is Schaefer's large, stationary, through-the-roof evaporative cooling fan, proven to be very effective in maintaining cow comfort and high milk production levels during even the hottest days in extremely hot and arid climates, such as the US Southwest and the Middle East.

Designed for dairies with high roofs and protected from prevailing wind and sun, rows of SuperCoolers are installed down both sides of a peaked roof dairy facility, typically at 20' spacing. A single SuperCooler cools an area of up to 1,000 square feet, or enough area for 12 to 15 cows, depending on cow density.

### FEATURES and BENEFITS

- 54" diameter G90 galvanized housings (stainless steel housings optional)
- Large radius fiberglass inlet and outlet flanges for maximum airflow with UV protective gel-coat finish for long life
- Gear drive motors - no belts to replace
- 5 hp, 3-phase motor; TEAO/Class H
- 54" diameter, high efficiency, 5-wing cast aluminum blade
- Approximately 34,000 total cfm
- 5-ring, 16-stage, 300 psi stainless steel misting system
- Control System and Pump Station manages up to 36 SuperCoolers and the integrated shade curtains, with variable mist (variable cooling) over a temperature range from 80°F to 110°F for maximum cooling without ground wetting
- Environmental inputs include ambient temperature, relative humidity, wind speed and rain
- Control System utilizes a Wi-Fi network for communication between the PLC, the main office computer, and an optional SCADA-based smartphone app to allow control and maintenance of the system from remote and local locations



Call Customer Care at **1.800.779.3267** to learn how these systems can improve your dairy's bottom line!





**SCHAEFER®****WET WALL EVAPORATIVE COOLING SYSTEM**

Designed to cool large volume buildings, Schaefer's Wet Wall Evaporative Cooling Systems can provide up to 30°F of cooling when used with Schaefer exhaust fans. Ideal for temperature reduction in greenhouses, animal confinement facilities, warehouses, factories, and other large facilities by utilizing the evaporation of water from evaporative media pads.

**FEATURES and BENEFITS**

- Up to 30°F temp. drop across cooling pads.
- Standard wet wall lengths: 5' increments from 10' to 60'.
- Standard wet wall heights: 3', 4', 5' and 6' options.
- Custom lengths and heights available.
- Choice of 4" and 6" pad depth.
- Choice of uncoated, coated single-side, and coated double-side pads.
- Up to 5-year pad life.
- Durable, no-leak, snap together PVC system components (supply line, spray line and reservoir).
- Choice of center-feed and end-feed water supply.
- Choice of 1/3 or 3 / 4 Hp Gould™ pumps; 110V or 220V.
- Easy to install, operate and maintain.
- No wasted water; anything that does not evaporate recirculates to the pads

**WET WALL PADS / EVAPORATIVE MEDIA**

Wet wall pads are for use in both Schaefer's Wet Wall Systems, and wet wall systems from other manufacturers. The fluted cellulose pads are designed for maximum airflow, maximum evaporation, structural strength and long life. Available with edge coating to increase strength, permits contact and non-contact pad cleaning, slows algae growth, and improves aesthetics. Thin pads offer maximum airflow while thick pads provide greater evaporation and cooling.

**WET WALL PAD FEATURES & OPTIONS**

- Fluted cellulose pads are designed for maximum airflow, evaporation, structural strength and long life.
- Choice of depth: 4" and 6". Thin pads are ideal for maximum airflow; thick pads for maximize evaporation and cooling.
- Choice of uncoated, single or double-sided coating.
- Choice of widths: 12" or 24".
- Choice of height: 3', 4', 5' and 6'.

**SCHAEFER®****DAIRY SOAKING SYSTEM**

Air movement cools cows that are soaked to the hide more effectively than dry cows. Schaefer's Dairy Soaking System soaks cows to the hide and, in conjunction with Schaefer circulation fans, lowers cow temperatures and increases milk production and reproductive rates.

The Dairy Soaking System showers the animals for a short period of time while at the feed line, in the holding pen or returning from milking. After the shower shuts off, Schaefer circulation fans blow across the cows' backs to increase evaporative cooling.

Systems can be designed for any dairy layout using standard components including controllers/timers, PVC piping, valves and filters, shower nozzles and check valves.

**FEATURES and BENEFITS**

- Extremely cost effective cow-cooling solution
- High-capacity, low-pressure, large-droplet soaker nozzles for effective, quick soaking
- 110V or 220V controllers; controlling 1 to 4 zones
- Time-activated or motion-activated sprinklers

**CONTROLLERS, TIMERS AND SENSORS**

Model	Description
SS-C110S-110V	Smart Mode control, single zone, 110V
SS-C110S-220V	Smart Mode control, single zone, 220V
SS-C440S-110V	Smart Mode control, 4 zone, 110V
SS-C440S-220V	Smart Mode control, 4 zone, 220V
SS-CSDK-110V	Cool Sense single direction kit, 110V
SS-CSDK-220V	Cool Sense single direction kit, 220V





**SCHAEFER®****72" FIBERGLASS GEAR DRIVE CONE EXHAUST FAN**

The all-new 72" fiberglass exhaust fan with gear-drive motor delivers maximum efficiency with minimal maintenance needs and product downtime, with the quality you expect from Schaefer products.

**FEATURES and BENEFITS**

- Gear-drive motor: no bearings, belts, pulleys, or tensioners to change and maintain
- Consistent high performance over product life
- VFD compatible
- Outperforms competitor products in side-by-side tests
- Built in Minnesota
- Draws 7.68/3.84 amps, 230/460 VAC 3-phase
- 4-year warranty on gear box
- 2-year motor warranty



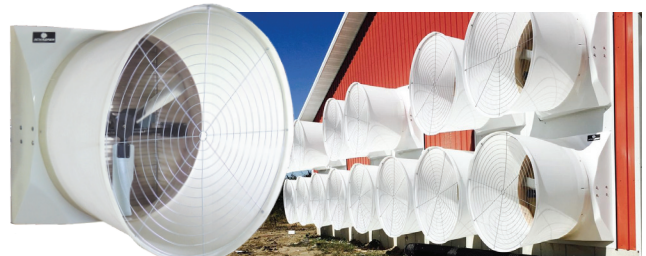
Model	Hp	Wing	Amps	RPM@ 0.0" SP	CFM@ 0.0" SP	CFM/W@ 0.0" SP	Tested
725CFDD-3	3	5	7.68/3.84	298	45,300	13.81	S

**SCHAEFER®****57" FIBERGLASS EXHAUST CONE FANS**

Schaefer's fiberglass exhaust fans are designed to exhaust more air at higher static pressures to meet the air exchange needs of your barn. Robust fiberglass housing is UV-protected and comes equipped with an easy-to-install, one-piece polyethylene cone for long life with minimal maintenance. Made in the USA with high quality parts, the 57" exhaust fan delivers reliability and high performance over years of hard use.

**FEATURES and BENEFITS**

- Rugged fiberglass housing with one-piece polyethylene cone
- All 3-phase motors are VFD compatible, for increased energy efficiency and ventilation flexibility
- Heavy-duty, corrosion resistant aluminum shutters and steel wire guard protected by powder coat over zinc plating
- Belt-drive system includes an automatic self-adjusting belt tensioner
- High Volume (HV) configurations deliver up to 34,000 cfm
- High Efficiency (HE) configurations deliver up to 21 cfm/watt at 0.10" static pressure
- Designed to fit side by side in dairies with standard 12, 18 and 24 foot post spacing
- Remote lubrication kits available for convenient bearing greasing
- Non-conductive kits available for additional fan protection and safety
- Ships fully assembled with one-piece cone added in the field

**DIMENSIONS**

Rough-in dimensions: 62.5" x 62.5"  
Cone major diameter: 67"  
Fan depth: 64" from mounting flange to outside end of cone



**EXHAUST FANS WORK BEST WITH SCHAEFER WET WALL SYSTEMS. SEE PAGE 20.**

Model	Hp	Wing	Amps	RPM@ 0.05" SP	CFM@ 0.05" SP	CFM/W@ 0.05" SP	CFM@ 0.10" SP	CFM/W @0.10" SP	CFM@ 0.15" SP	CFM/W @ 0.15" SP	Airflow Ratio	Tested
<b>BELT-DRIVE, HIGH VOLUME, SINGLE-PHASE</b>												
573CF112G-1-HV	1.5	3	13.6/6.8	541	30,500	21.2	28,600	19.3	26,000	17	0.76	BL
<b>BELT-DRIVE, HIGH VOLUME, 3-PHASE</b>												
573CF112G-3-HV*	1.5	3	4.6-4.8/2.4	558	31,500	20.8	29,600	18.9	27,400	17.1	0.79	BL
573CF2G-3-HV*	2	3	6-5.8/2.9	589	33,600	19.3	31,700	17.7	29,700	16.2	0.82	BL
<b>BELT-DRIVE, HIGH EFFICIENCY, 3-PHASE</b>												
575CF2G-3-HE*	2	5	6-5.8/2.9	454	30,100	22	28,600	20.3	26,700	18.4	0.81	BL
<b>DIRECT-DRIVE, GEAR DRIVE, HIGH VELOCITY, 3-PHASE</b>												
574CF2G-3-GD-HV*	2	4	5.6-5.2/2.6	523	33,800	19.3	32,300	17.6	30,400	15.9	.83	BL
<b>DIRECT-DRIVE, GEAR DRIVE, HIGH EFFICIENCY, 3-PHASE</b>												
574CF112G-3-GD-HE*	1.5	4	4.2-4.0/2.0	475	30,200	22.5	28,600	20.4	26,400	17.9	.78	BL

Blade Type: G: Galvanized

\* 3-phase models are VFD compatible.

Best Seller!



## SCHAEFER®

### FIBERGLASS EXHAUST FANS

Schaefer's fiberglass exhaust fans are designed and built to be highly efficient (high CFM/watt), long-lived and competitively priced for agricultural and other applications. Fiberglass exhaust fans are used worldwide to exhaust high volumes of air from factories, warehouses, livestock barns & buildings, garages, and other locations where building owners demand low capital and operating costs with high performance.



FFM483G1



#### FEATURES and BENEFITS

- Designed for high airflow and high efficiency
- Totally enclosed, thermally protected motors for safety and long life
- Easy belt replacement and optional Remote Lubrication System for minimal maintenance
- Self-adjusting belt tensioner for easy adjustment
- Aluminum inlet shutter and powder-coated outlet guard standard
- Suitable for buildings with up to 12" wall thickness
- Ship fully assembled

#### FIBERGLASS EXHAUST FAN OPTIONS

Diameters: 36", 48", and 52"  
 Blade Style: 3-wing or 5-wing  
 Blade Material: Galvanized steel, stainless steel and aluminum  
 Motor Horsepower: 1/2, 1 or 1-1/2 hp  
 Motor Phase: 1-phase or 3-phase



Model	Diameter	Speed	Phase	Wings	Blade	Hp	Volts	Amps	CFM@0.05" SP	Rough-in (W x H)	Tested
<b>DIRECT-DRIVE FIBERGLASS EXHAUST FANS</b>											
<b>FFM363G12DD</b>	36"	1	1	3	GS	1/2	115/230	7.0/3.5	9320	43-1/2" x 43-3/4"	S
<b>FFM363G12DD-3</b>	36"	1	3	3	GS	1/2	230/460	2.3/1.2	9320	43-1/2" x 43-3/4"	S
<b>FFM363G12DD-3V</b>	36"	1	3	3	GS	1/2	208-230/460	2.7/1.6	9320	43-1/2" x 43-3/4"	S

Best Seller!

<b>BELT-DRIVE FIBERGLASS EXHAUST FANS</b>											
<b>FFM365G12</b>	36"	1	1	5	GS	1/2	115/230	4.6/2.3	9500	43-1/2" x 43-3/4"	S
<b>FFM485G1</b>	48"	1	1	5	GS	1	115/230	9.8/4.9	22,370	55-3/4" x 56-1/4"	S
<b>FFM485G1-2</b>	48"	2	1	5	GS	1	230	5.3/3.0	20,570/13,420	55-3/4" x 56-1/4"	S
<b>FFM485G1-3*</b>	48"	1	3	5	GS	1	208-230/460	3.2/1.6	22,370	55-3/4" x 56-1/4"	S
<b>FFM525G1-3</b>	52"	1	3	5	GS	1	208-230/460	3.2/1.6	24,245	59-1/4" x 59-1/4"	S

Best Seller!

^ CFM at free air

Note: Other motor and blade combinations available

\* 3-phase model available with VFD compatible motors

**CAN'T FIND WHAT YOU ARE LOOKING FOR?**

Please call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)

\*Specifications are subject to change without prior notice

**SCHAEFER®****POLYETHYLENE EXHAUST FANS**

If you need a robust and versatile solution for exhausting moderate amounts of air at a reasonable price, look no further than Schaefer's polyethylene exhaust fans.

These high-quality fans are built with rugged polyethylene housings, TEAO motors and polypropylene fan blades for exceptional durability and long life.

Schaefer's polyethylene exhaust fans provide an energy efficient and cost-effective solution for exhausting air and moisture from a diverse range of facilities including warehouses, garages, greenhouses and more.



PFM126P13

**FEATURES and BENEFITS**

- Polyethylene construction for corrosion-resistant and effortless cleaning
- Energy-efficient, maintenance-free motor
- Direct drive
- Motor and blade combination designed for best-in-class performance
- Integrated PVC or aluminum shutters
- Designed to be flush mounted with interior walls up to 10" thick for use in a broad range of facilities



HOUSING

Model	Diameter	Shutter Material	Wings	Blade Material	Phase	Hp	Volts	Amps	CFM@ 0.05" SP	Rough-In (W x H)	Tested
<b>Best Seller!</b> PFM126P13*	12"	PVC	6	Polyethylene	1	1/3	115/230	3.8/1.9	1540	15-3/4" x 16-3/4"	BL
PFM163P13*	16"	PVC	3	Polyethylene	1	1/3	115/230	3.8/1.9	3090	19-1/2" x 20-1/2"	BL
PFM203P13*	20"	PVC	3	Polyethylene	1	1/3	115/230	3.8/1.9	3530	23-1/2" x 24-3/4"	BL
<b>Best Seller!</b> PFM204P12*	20"	PVC	4	Polyethylene	1	1/2	115/230	4.8/2.4	4970	23-1/2" x 24-3/4"	BL
PFM244P12A*	24"	Aluminum	4	Polyethylene	1	1/2	115/230	4.8/2.4	5300	29" x 29-1/2"	BL
PFM245G12A	24"	Aluminum	5	Galvanized	1	1/2	115/230	7.0/3.5	5350	29" x 29-1/2"	BL
PFM244P12*	24"	PVC	4	Polyethylene	1	1/2	115/230	4.8/2.4	5220	29" x 29-1/2"	BL

**HAZARDOUS LOCATION MODELS**

PFM1600-1-HL	16"	Aluminum	3	Aluminum	1	1/3	115/230	3.6/1.8	2960^	19-1/2" x 20-1/2"	S
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^ CFM at free air

\* Variable speed when used with optional speed controls not included with fan model





**SCHAEFER®****SLANT WALL EXHAUST FANS**

Schaefer's Slant Wall Exhaust Fans are the first choice of growers and other building owners looking for very low-cost, high-volume exhaust fans that flush-mount from inside the building and shed water and snow, once installed.

Optional: VFD-compatible 3-phase motors for increased energy efficiency and ventilation flexibility.



365S12

**FEATURES and BENEFITS**

- Designed for high airflow and high efficiency
- Totally enclosed, thermally protected motors for safety and long life
- Easy belt replacement and optional Remote Lubrication System for easy maintenance
- Self-adjusting belt tensioner on belt-drive models for easy adjustment
- Aluminum shutter and galvanized outlet guard standard
- Suitable for buildings with up to 6" wall thickness using standard rough-in dimensions
- Ship fully assembled

**SLANT WALL EXHAUST FAN OPTIONS**

Diameter: 24", 30", 36", 42", 48" and 54"  
 Configuration: Direct-drive (24" or 30");  
 Belt-drive (24", 30", 36", 42", 48" and 54")  
 Blade Style: 3-wing or 5-wing  
 Housing and Blade Material: Galvanized steel  
 Motor Horsepower: 1/2, 3/4, 1, 1-1/2 or 2 hp  
 Motor Phase: 1-phase or 3-phase

**MODELS AVAILABLE**

GALVANIZED MODEL	Diameter	Wings	Drive	Phase	Hp	Volts	Amps	CFM@ 0.05" SP	Rough-in (W x H)*	Tested
245SDD12	24"	5	Direct	1	1/2	115/230	7.0/3.5	6600	31" x 31-3/4"	S
245S12	24"	5	Belt	1	1/2	115/230	4.6/2.3	6100	31" x 31-3/4"	S
303SDD12	30"	3	Direct	1	1/2	115/230	7.0/3.5	7200	37" x 37-3/4"	S
305S12	30"	5	Belt	1	1/2	115/230	4.6/2.3	7010	37" x 37-3/4"	BL
<b>Best Seller!</b> 365S12	36"	5	Belt	1	1/2	115/230	4.6/2.3	9520	43" x 43-3/4"	BL
425S1	42"	5	Belt	1	1	115/230	9.8/4.9	14,370	49" x 49-3/4"	S
485S1	48"	5	Belt	1	1	115/230	8.4/4.2	18,600	55" x 55-3/4"	BL
<b>Best Seller!</b> 485S112	48"	5	Belt	1	1-1/2	208-230	6.8-6.4	23,100	55" x 55-3/4"	BL
545S112G-3	54"	5	Belt	3	1-1/2	208-230/460	5.0/2.5	27,400	61" x 62"	BL

\*Rough-in framing Tolerance: +1/4" / -0" (+ 6mm / -0)

Note: Other motor and blade combinations available

**SCHAEFER®****BELT-DRIVE GALVANIZED BOX EXHAUST FANS**

Maintain a safe and productive work environment by exchanging hot or contaminated air using Schaefer's low-cost galvanized, box exhaust fans. These low-cost, high-volume exhaust fans are protected from the elements with outlet side aluminum shutters and mount in walls of almost any thickness, typically with the outlet shutter flush, or nearly flush with the outside wall.

**FEATURES and BENEFITS**

- Designed for high airflow and high efficiency
- Totally enclosed, thermally protected motors for safety and long life
- Easy belt replacement and optional Remote Lubrication System for minimal maintenance
- Self-adjusting belt tensioner for easy adjustment
- Aluminum outlet shutter and galvanized inlet guard standard
- Suitable for buildings with any wall thickness



363B12

**BEST SELLERS**

Model	Diameter	Wings	Phase	Hp	Volts	Amps	CFM@0.05" SP	Rough-in (W x H)	Tested
363B12	36"	3	1	1/2	115/230	4.6/2.3	9340	43" x 43"	S
365B12	36"	5	1	1/2	115/230	4.6/2.3	9520	43" x 43"	S
483B1-3*	48"	3	3	1	208-230/460	3.2/1.6	19,300	55" x 55"	S
485B1	48"	5	1	1	115/230	9.8/4.9	18,600	55" x 55"	S

• Other motor and blade combinations available.

\* 3-phase models available with VFD compatible motors.

**SCHAEFER®****DIRECT-DRIVE GALVANIZED BOX EXHAUST FANS**

Schaefer direct-drive box exhaust fans have the same great features as the belt-drive models, but at an even lower cost. These box fans have hardware cloth on both sides of the fan, which provides superior protection to people and the internal components of the fan. If you have a strict budget and cost matters most, but you don't want to sacrifice performance, look no further than Schaefer's direct-drive box exhaust fans.



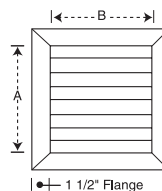
Model	Diameter	Wings	Phase	Hp	Volts	Amps	CFM@0.05" SP	Rough-in (W x H)	Tested
363B12DD-HC	36"	3	1	1/2	115/230	7.0/3.5	9600	43" x 43"	S

**SCHAEFER®****SHUTTER-STYLE EXHAUST FANS**

Schaefer's shutter-style exhaust fans offer an energy efficient solution to meet low to medium exhaust airflow requirements. These exhaust fans work perfectly in thin-walled buildings requiring exhaust fans with a low profile, such as greenhouses.

**FEATURES and BENEFITS**

- Heavy-duty, totally enclosed and maintenance-free motors
- Low profile for thin-walled buildings and where space is limited
- Aluminum blade and rugged PVC shutter for durability and long life
- Mounts flush to the exterior wall
- Available in 12", 16" and 20" sizes



SFT-1200

Model	Description	Hp	Volts	Amps	CFM@0.05" SP	Rough-In (W x H)
SFT-1200*	12" Shutter-style variable speed exhaust fan	1/30	115	0.9	760	12-5/8" x 12-5/8"
SFT-1600*	16" Shutter-style variable speed exhaust fan	1/10	115/230	1.3/0.65	1250	16-5/8" x 16-5/8"
SFT-2000*	20" Shutter-style variable speed exhaust fan	1/3	115/230	3.8/1.9	3120	20-5/8" x 20-5/8"
SFT-2000A	20" Aluminum Shutter-style variable speed exhaust fan	1/3	115/230	3.8/1.9	3120	20-5/8" x 20-5/8"

\* Variable-speed when used with optional speed controls not included with fan model.



## SCHAEFER®

### BELT-DRIVE LIGHT TRAP BOX EXHAUST FANS

Schaefer® exhaust fans are ideal for effectively maintaining optimum humidity and air quality levels essential for productive growing conditions. Specially designed to accommodate industry standard light trapping filters. The fan and light trap filter combination will create a 100% barrier against natural light, allowing growers to precisely control growth cycles.

- Extended housing to accommodate the use of a light trap with shutter.
- Designed to work with the Schaefer light trap filters (ordered separately).
- Mounts flush to the inside wall.
- Totally enclosed thermally protected motors for reliability.
- Made of galvanized metal for long life.



365B1G-LT

Light Trap Box Exhaust Fan Only (light trap filters must be ordered separately)									
Model	Diameter	Wings	Phase	Speed	HP	Volts	Amps	CFM @ 0.05" SP	Rough-in (W x H)
365B1G-LT	36"	5	1	1	1	115/230	8.4/4.2	9,890	43" x 43"
365B1G-2-LT	36"	5	1	2	1	115	12.4/5.4	10,950	43" x 43"
425B112G-LT	42"	5	1	1	1.5	208-230	6.8 - 6.4	14,250	49" x 49"
485B2G-LT	48"	5	1	1	2	230	9.2	19,900	55" x 55"
485B2G-3-LT	48"	5	3	1	2	208-230/460	6-5.8/2.9	17,900	55" x 55"
545B2G-LT	54"	5	1	1	2	230	9.2	22,700	61" x 62"
545B2G-3-LT	54"	5	3	1	2	208-230/460	6-5.8/2.9	23,100	61" x 62"

Light Trap Filter Wall Intake Housing (unassembled light trap filters and shutters must be ordered separately)				
Model	Fits Schaefer® Shutter (sold separately)	Rough-in Opening	Light Trap Opening	Light Trap Kit Needed*
SLTH-39-UA	WS-390	44-3/4" W x 44-3/4" H	43-3/4" W x 43-3/4" H	42LF-UA
SLTH-42-UA	WS-420	47-3/4" W x 47-3/4" H	46-3/4" W x 46-3/4" H	42LF-UA
SLTH-48-UA	WS-480	53-3/4" W x 53-3/4" H	52-3/4" W x 52-3/4" H	48LF-UA
SLTH-51-UA	WS-510	56-3/4" W x 56-3/4" H	55-3/4" W x 55-3/4" H	54LF-UA
SLTH-54-UA	WS-540	59-3/4" W x 59-3/4" H	58-3/4" W x 58-3/4" H	54LF-UA
SLTH-57-UA	WS-570	62-3/4" W x 62-3/4" H	61-3/4" W x 61-3/4" H	–
SLTH-60-UA	WS-600	65-3/4" W x 65-3/4" H	64-3/4" W x 64-3/4" H	–
SLTH-66-UA	WS-660	71-3/4" W x 71-3/4" H	70-3/4" W x 70-3/4" H	–

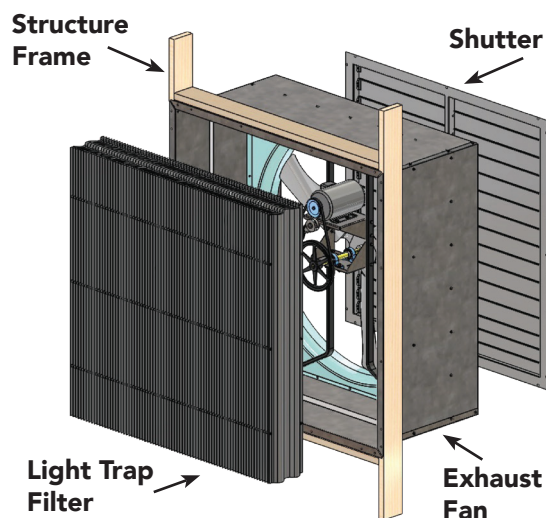
\*Light Trap veins will need to be trimmed on-site to fit Light Trap Opening dimensions.

### LIGHT TRAP FILTER KITS

- Kits include all necessary vanes and connectors.
- 1-year limited warranty

Assembled Light Trap Filter Kits (to be sold with an assembled light trap exhaust fan)		
Model	Fits Schaefer® Light Trap Exhaust Fan Sizes	Assembled Dimensions
36LF	36" (365B1G-LT & 365B1G-2-LT)	41.5" W x 41.5" H x 8.5" D
42LF	42" (425B112G-LT)	47.5" W x 47.5" H x 8.5" D
48LF	48" (485B2G-LT & 485B2G-3-LT)	53.5" W x 53.5" H x 8.5" D
54LF	54" (545B2G-LT & 545B2G-3-LT)	59.5" W x 60.25" H x 8.5" D

Unassembled Light Trap Filter Kits		
Model	Fits Schaefer® Light Trap Exhaust Fan Sizes	Assembled Dimensions
36LF-UA	36" (365B1G-LT & 365B1G-2-LT)	41.5" W x 41.5" H x 8.5" D
42LF-UA	42" (425B112G-LT)	47.5" W x 47.5" H x 8.5" D
48LF-UA	48" (485B2G-LT & 485B2G-3-LT)	53.5" W x 53.5" H x 8.5" D
54LF-UA	54" (545B2G-LT & 545B2G-3-LT)	59.5" W x 60.25" H x 8.5" D





## SCHAEFER® ALUMINUM SHUTTERS

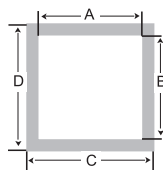
Schaefer's aluminum shutters allow airflow in a single direction and are used as building air inlets to feed Schaefer exhaust fans, or on exhaust fans to prevent air entry when the fan is not operating. Aluminum shutters are built tough for long life in the most demanding environments, all at an affordable price.



Aluminum Shutters shown with optional SHUTTERMOTOR-SM Motor and Hardware Kit

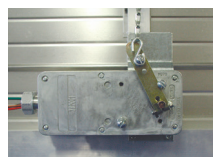
### FEATURES and BENEFITS

- Constructed of heavy-duty brushed aluminum for corrosion resistance and greater durability
- Interlocking louvers for maximum weather protection and lightweight for high efficiency and easy installation
- Tie bar to eliminate shutter flapping
- Shutter motor kits available for automated opening/closing
- Made in America and/or imported



## SCHAEFER® SHUTTER MOTORS

Use shutter motors to open a shutter wider to improve airflow when in use or to keep the shutter closed when not in use. Easy to install and operate. Shutter motor kits for large and small shutters are available.



SHUTTERMOTOR-SM

- 115/230V
- Enclosure suitable for wet or damp locations
- 0.5 amps at 115 volts; 0.25 amps at 230 volts



Model	Recommended	
	Shutter size with wind	Shutter size against wind
SHUTTERMOTOR-SM	All Sizes	48" and Under
SHUTTERMOTOR-LG	N/A	Over 48"
HWKIT-LGSHUTTER is available for retrofit applications on shutters over 48". Does not include shutter motor.		

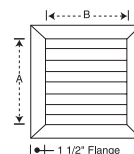
Note: Using shutter motors on larger shutters than those specified invalidates our warranty.

Model	Size	A - Frame Width	B - Frame Height	C - Flange Width	D - Flange Height
WS-120E	12"	12"	12-1/2"	15-1/4"	15-1/2"
WS-160E	16"	16"	16-1/2"	19-1/4"	19-1/2"
WS-180E	18"	18"	18-1/2"	21-1/4"	21-1/2"
WS-200E	20"	20"	20-1/2"	23-1/4"	23-1/2"
WS-240E	24"	24"	24-1/2"	27-1/4"	27-1/2"
WS-270E	27"	27"	27-1/2"	30-1/4"	30-1/2"
WS-300E	30"	30"	30-1/2"	33-1/4"	33-1/2"
WS-330E	33"	33"	33-1/2"	36-1/4"	36-1/2"
WS-360E	36"	36"	36-1/2"	39-1/4"	39-1/2"
WS-390E	39"	39"	39-1/2"	42-1/4"	42-1/2"
WS-420E	42"	42"	42-1/2"	45-1/4"	45-1/2"
WS-450E	45"	45"	45-1/2"	48-1/4"	48-1/2"
WS-480E	48"	48"	48-1/2"	51-1/4"	51-1/2"
WS-510E	51"	51"	51-1/2"	54-1/4"	54-1/2"
WS-540E	54"	54"	54-1/2"	57-1/4"	57-1/2"
WS-570E	57"	57"	57-1/2"	60-1/4"	60-1/2"
WS-600E	60"	60"	60-1/2"	63-1/4"	63-1/2"
WS-660E	66"	66"	66-1/2"	69-1/4"	69-1/2"

Rough-in openings: Add 1/2" to A and B dimensions. See website for more information.

## SCHAEFER® STANDARD AND MOTORIZED PVC SHUTTERS

Schaefer's white exterior grade PVC shutters are maintenance free, resistant to rust and corrosion and have an efficient, aerodynamic design. Louvers are curved for a tight seal when closed and corners are fused together for exceptional strength and durability. Optional integrated shutter motors are available.



Motorized PVC Shutters  
MIT Models

Standard PVC Shutter	Motorized PVC Shutter	Size	A-Height	B-Width
PS12	MIT-1200	12"	12-1/8"	12-1/8"
PS14	N/A	14"	14-1/8"	14-1/8"
PS16	MIT-1600	16"	16"	16"
PS18	N/A	18"	18-1/8"	18-1/8"
PS20	MIT-2000	20"	20"	20"
PS22	MIT-2200	22"	22-1/8"	22-1/8"
PS24	N/A	24"	24"	24"
PS27	N/A	27"	27-1/4"	27-1/4"

Additional shutter sizes and shapes available by special order. Please call 1.800.779.3267 for more information.





## SCHAEFER®

### AIR INLETS AND VENTS

Animal confinement facilities require weather-proof inlets and vents to maintain healthy and comfortable environments. Choose from Schaefer's wide selection of cost effective, long-lived, polyethylene roof, ceiling and wall inlets and vents.



Model	Description	CFM@ 0.125" SP	Rough-in (W x H)
 RV3000	<b>HIGH VOLUME ROOF/RIDGE INLET AND EXHAUST VENT</b> <ul style="list-style-type: none"> <li>Exhausts hot air in the summer; an inlet for fresh air in the winter</li> <li>One-piece molded polyethylene construction with UV protection for long life</li> <li>Installs on roofs with pitches from 2/12 to 6/12</li> <li>Downward facing bird-screened inlets protected from rain and snow</li> <li>Inlets remain functional despite snow drifts up to 14" deep</li> </ul>	3000	11-1/2" x 47" 

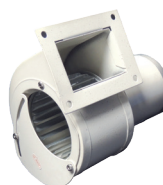
## SCHAEFER®

### INFLATION BLOWERS

Shaded pole inflation blowers have forward curved wheels and energy efficient, open drip proof motors. These blowers are frequently used for inflating greenhouse polyethylene.

#### FEATURES

- Available with black or white enamel finish
- Choice of standard or economy blower



B148-E



B60-E



Model	Description	Imported	Color	Volts	CFM@0.0" SP
B60	Standard shaded pole blower	No	Black	115	60
B60-E	Economy shaded pole blower	Yes	White	115	60
B148	Standard shaded pole blower	No	Black	115	148
B148-E	Economy shaded pole blower	Yes	White	115	148

**CAN'T FIND WHAT YOU ARE LOOKING FOR?**

Please call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)



VS12FMT  
Ceiling Mount



VS20FMT  
Ceiling Mount



VS36FMT  
Ceiling Mount



WM24D-B  
Wall Mount



VS2024OSC  
Oscillator Wall Mount



PED30R-B  
Round Base Pedestal



VS2430FC

Model	Description	Fan Size
<b>CEILING MOUNTS</b>		
VS12FMT	Ceiling mount 5" length	12"
VS20FMT	Ceiling mount 8" length	20"
VS24FMT	Ceiling mount 10" length	24" - 30"
VSCK-MT2	Ceiling mount 10" length for Cattle Kooler	30" and smaller
VS30FMT-SS	Ceiling mount - stainless steel 13-1/2" length	24" - 30"
VS36FMT	Ceiling mount 18" length	30" - 36"
<b>POLE AND POST MOUNTS • ADDITIONAL STYLES AVAILABLE</b>		
VS12SPM	Standard pole mount for common round 2 to 3-1/2" poles	12" Tent Fan
<b>WALL MOUNTS</b>		
WM24D-B	Wall mount, adjustable, 13" high x 16" deep	24" and smaller
WM24D-SS	Wall mount, adjustable, stainless steel, 13" high x 16" deep	24" and smaller
WM30D-B	Wall mount, adjustable, 16" high x 19" deep	30" and smaller
WM30D-SS	Wall mount, adjustable, stainless steel, 16" high x 19" deep	30" and smaller
WM36D-B	Wall mount, adjustable, 19" high x 22" deep	36" and smaller
WM36D-Y	Wall mount, adjustable, 19" high x 22" deep, safety yellow	36" and smaller
WMTA-OSC-SS	Wall mount, oscillating, stainless steel, fully enclosed	30" and smaller
VS2024OSC-115	Wall mount, oscillating, 115V, 60 Hz	30" and smaller
<b>FAN CART AND PEDESTALS*</b>		
VS2430FC	Black fan cart 33" high x 29-1/4" deep	30" and smaller
PED30R-B	Economy black floor pedestal 27" round base • Approx. 43-1/2" to 57-1/2" high	30" and smaller
PED36R-B	Economy black floor pedestal 36" round base • Approx. 42" to 59" high	36" and smaller

\*For safety, all fans mounted on fan carts, pedestals, or below seven feet, should be OSHA guarded.

**CAN'T FIND WHAT YOU ARE LOOKING FOR?**





Please call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)





**SCHAEFER®****FAN AND HEATER CONTROLS**

Schaefer offers a broad range of sensors and manual and automatic controls to allow dairymen, greenhouse operators, plant managers and others to control fans and heaters and optimize thermal comfort in their facilities. Brief descriptions of Schaefer's most popular controls and sensors are provided below. Other controls and sensors are available.

Model	Description	
SPEED CONTROLS		
 FC-1T-1VAC-1F	H-115	Manual Variable Speed Control with RFI filter in water- and corrosion-resistant container; 6A@115V output.
	H-230	Manual Variable Speed Control with RFI filter in water- and corrosion-resistant container; 6A@230V output.
	MSC-400	Manual Variable Speed Control with on/off toggle switch and RFI filter in non-corrosive container; 12.5A@115/230V output.
	FD-1S-1400	Manual Variable Speed Control with on/off toggle switch in non-corrosive container; 12.5A@120/230V output
	FC-1T-1VAC-1F	Temperature based automatic variable speed control in water and corrosion resistant container with adjustable idle speed, adjustable temperature differential, automatic shutoff, digital display and RFI filter; 10A @ 120/230 V output.
		
HUMIDISTAT, THERMOSTATS AND SWITCHES		
 TP520	THC-1	Humidity Controller for portable evaporative coolers to manage humidity levels with the turn of a dial.
	TP518	1-Stage Thermostat Switch, 30°F to 110°F with 3° differential, NEMA 4x, UL E313212; 16A@120V, 12A@240V.
	T335	1-Stage Thermostat Switch, 40°F to 102°F with 2.7° differential, weatherproof enclosure: 12A@120V, 10A@240V; imported.
	TP520	2-Stage Thermostat Switch, 30°F to 110°F with 3° differential, NEMA 4x, UL E313212; 16A@120V, 12A@240V.
		

**CAN'T FIND WHAT YOU ARE LOOKING FOR?**

Please call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)

**MASTER****KEROSENE /DIESEL SILENTDRIVE® FORCED AIR "TORPEDO" HEATERS**

Half the noise. All the power. Developed using decades of customer feedback, SilentDrive® answers the call for a heater that is both quieter, and easier to maintain and operate. This is the next step forward for kerosene torpedo heater design. Our SilentDrive heaters produce half the noise, 46% less electricity consumption, variable heat outputs and a streamlined operation that eliminates routine maintenance (no filters to replace or rotor gaps to keep set). OSHA standard 1910.95 on noise exposure states that at under 90 dB there is no need for ear protection during an 8-hour period. The SilentDrive heater produces 82 dB of noise.

To put things in relatable terms, a standard 200,000 BTU torpedo heater is about as loud as a motorcycle, whereas our 220,000 BTU SilentDrive 220 is comparable in noise to a household vacuum cleaner. In addition, all SilentDrive heaters come equipped with our rigorously tested cold weather start system, as well as the most advanced safety features available.

SilentDrive® Heaters are also certified to run on #1 Diesel Fuel, Jet A Fuel and #1 Fuel Oil, in addition to kerosene.

Powered by  
SilentDrive®



MH-220T-SDR



Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Tank Capacity (Gal)	Fuel Consumption (Gal/Hr)	Max Operating Hours	CFM	Hp	Volts	Hz	Amps	Noise (dBA)	Weight
MH-220T-SDR	220,000	5500	13	1.67	7.7	685	0.08	120	60	1.72	82	69

**MASTER****KEROSENE/DIESEL FORCED AIR "TORPEDO" HEATERS**

Our extensive lineup of Kerosene Torpedo Heaters utilizes our tried-and-true design, honed through decades of development. With models able to heat spaces from 1,100 sq. feet all the way up to 15,000 sq. feet, you can always find the ideal Master Torpedo Heater for your application.

All Master Heaters come with the latest in safety technology, as well as our rigorously tested cold-start system. In addition to kerosene, our multi-fuel torpedo heaters are also CSA certified to run on #1 & 2 Diesel Fuel, JP8/Jet A Fuel and #1 & 2 Fuel Oil.

**FEATURES**

- Built-in calibrated air pressure gauge
- Built-in thermostat\*
- Heavy-duty solid wheels
- Digital temperature readout & LED diagnostics\*\*
- Industrial-grade sealed electric motor
- Easy-lift handles
- Automatic safety shut-off system
- Power on-off switch
- Fuel gauge
- Extension cord wrap

\*EXCLUDES MH-45-KFA

\*\*MH-140T-KFA, MH-190T-KFA, MH-215T-KFA, 140TMHD-KFA, 190TMHD-KFA, and 215TMHD-KFA MODELS ONLY



MH-80T-KFA



190T-MHD-KFA



Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Tank Capacity (Gal)	Fuel Consumption (Gal/Hr)	Max Operating Hours	CFM	Hp	Volts	Hz	Amps	Weight
MH-45-KFA	45,000	1125	5	0.35	14.3	170	1/8	120	60	1.4	28
MH-80T-KFA	80,000	2000	5	0.63	8	240	1/8	120	60	1.5	28
140TMHD-KFA	140,000	3500	10	1.1	9	540	1/5	120	60	2.3	49
190TMHD-KFA	190,000	4750	13	1.42	9.2	630	1/4	120	60	2.7	58
215TMHD-KFA	215,000	5375	13	1.63	8	670	1/3	120	60	2.8	61
MH-400T-KFA	400,000	10,000	24	3.05	8	1250	1/4	120	60	3.0	143
MH-600T-KFA	600,000	15,000	40	4.5	9	3000	1/2	120	60	5.5	254



## MASTER

### PROPANE AND NATURAL GAS FORCED AIR "TORPEDO" HEATERS

Master's Propane Torpedo Heaters offer a convenient, easily portable alternative to our larger kerosene units. With variable heat outputs and a light, compact design, propane heaters are a versatile solution for heating a variety of spaces. Master's lineup of propane forced air heaters delivers effective heating solutions for areas 1,000 sq. feet to 9,300 sq. feet in size. With such a wide range to choose from, you can always find the perfect model heater for your application.

All of our propane torpedo heaters come equipped with the latest safety features, and include a gas line and regulator. In addition to propane, we also offer models that run on natural gas.



Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Type	Fuel Consumption (lb/Hr)	Max Operating Hours	CFM	Hp	Volts	Hz	Amps	Weight
MH-40-GFA	40,000	1000	20 lb. Propane	1.9	11	300	1/10	120	60	.6	11
60VMHD-GFA	40-50-60,000	1500	20 lb. Propane	1.9/2.3/2.8	10.5	300	1/10	120	60	.6	11
MH-125V-GFA-A	95-110-125,000	3125	100 lb. Propane	4.4/5.1/5.8	22.7	400	1/9	120	60	.8	17
MH-150V-GFA-A	120-135-150,000	3800	100 lb. Propane	5.5/6.2/6.9	18	400	1/9	120	60	.8	18
MH-375T-GFA-A	225-375,000	9300	(2) 100 lb. Propane	10.4/17.4	11.5	1500	1/5	120	60	1.0	45
MH-150NGT-GFA-A	150,000	3800	Natural Gas	146 cu. ft/hr	N/A	435	1/9	120	60	.8	24

## MASTER

### KEROSENE/DIESEL FORCED AIR RADIANT HEATERS

Our line of Master Radiant Heaters combine forced air convection heat with radiant heat, which warms objects directly. When you think of radiant heat, think of a campfire or the sun. The result is a heater that works quickly and effectively to bring warmth to a space. While it takes some time for hot air to mix with cold air, the radiant heat is working as soon as the heat plate starts glowing.



MH-80-OFR

MH-125-OFR-A

In addition to utilizing multiple types of heat, Master Radiant Heaters are also 50% quieter than a comparable conventional diesel/kerosene torpedo heater. Radiant Heaters also feature a much simpler operation process, with no need for routine maintenance.

All Master Radiant Heaters come equipped with the latest safety features, cold weather start, and are certified to run on #1 & 2 Diesel Fuel, JP8/Jet A Fuel and #1 & 2 Fuel Oil, in addition to kerosene.



Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Consumption (Gal/Hr)	Max Operating Hours	Volts	Hz	Amps	Weight
MH-80-OFR	80,000	2000	0.63	6	120	60	0.618	31
MH-125-OFR-A	125,000	3125	0.85	16	120	60	.421	68

For assistance with Master heaters, call Customer Care at 1.800.779.3267  
or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)



## MASTER

### PROPANE CONVECTION HEATERS

Master's Propane Convection Heaters are an efficient, cost-effective way to heat open spaces up to 5,000 sq. feet. Convection heaters emit a large amount of radiant heat, sort of like having a bonfire but without the safety hazards of a large open flame.

Master Convection Heaters come equipped with the latest safety features, including a tip-switch and a high limit switch.

#### FEATURES

- 360° Heating radius
- Inner wind guard
- Quick assembly, 2-piece burn chamber
- Auto- Piezo ignition
- 10-foot hose and regulator included
- Over-heat shut-off



MH-80V-LPC-A

MH-80V-LPC-A  
MH-200V-LPC-A

MH-80V-LPC-A



MH-200V-LPC-A

## MASTER

### PROPANE CABINET HEATERS

Master's Propane Cabinet Heater delivers long-lasting, close-proximity heat. Its compact design houses a 20lb propane tank within the heater itself, so it's easy to just roll around within your space. The Propane Cabinet Heater runs electricity-free, so you can use it anywhere. Great for camping, ice fishing, or the workshop, Master's Propane Cabinet Heater will heat up to 450 sq. feet, and can run continuously for 24-65 hours, depending on the setting.

#### FEATURES

- 3 Variable heat settings
- Easily portable with four rolling caster wheels (Rear locking)
- Radiant-style heat
- Safety tip-over switch
- Built-in ODS (Oxygen depletion sensor)
- Hose and regulator included
- Piezo ignition



MH-18PNCH-A

## MASTER

### PROPANE TANK-TOP HEATERS

Master's Propane Tank-Top Heaters are a beautifully simple and cost-efficient way to heat spaces up to 1,175 sq. feet. Mounted directly to the top of a 20 lb. propane tank, our tank top heaters take up very little space, and are easy to install.

#### FEATURES

- 3 Heat settings
- Wind resistant
- Safety tip-over switch
- Match light ignition
- Radiant-style heat
- Rust proof chrome emitter guard
- Hose and regulator included
- Rear burner safety guard



MH-16-TTC

MH-32-TTC

MH-360A-TTC

TANK NOT INCLUDED

Model	Heat Output - L/M/H (BTU)	Fuel Type	Heating Settings	Fuel Consumption - L/M/H (lb/hr)	Max Operating Hrs - L/M/H	Heating Area - L/M/H (Sq ft)	Weight
<b>PROPANE CONVECTION HEATERS</b>							
MH-80V-LPC-A	60 - 70 - 80,000	20 lb. or 100 lb. Propane	3	2.8/3.2/3.7	36	1800	13
MH-200V-LPC-A	70 - 200,000	100 lb. Propane	2	3.2 - 9.3	31	5000	14
<b>PROPANE CABINET HEATERS</b>							
MH-18PNCH-A	6600 - 12,000 - 18,000	20 lb. Propane	3	0.31/0.56/0.83	65/36/24	165/300/450	18.5
<b>PROPANE TANK TOP HEATERS</b>							
MH-16-TTC	16,000	20 lb. Propane	3	0.56/0.65/0.74	35.9/30.8/27.0	300/350/400	3
MH-32-TTC	32,000	20 lb. Propane	3	1.16/1.30/1.49	17.2/15.4/13.4	620/700/800	6
MH-360A-TTC	41,000	20 lb. Propane	3	1.24/1.56/1.87	16.0/13.0/10.0	660/840/1025	10



**MASTER****BATTERY OPERATED HEATERS -  
PROPANE AND KEROSENE/DIESEL**

Duo Power Compatibility - Runs on either battery or electric cord power. Compatible with most major brand lithium 18/20V Batteries - no more need to be tied to an outlet for electricity.

The all-new, battery-powered forced and radiant air heaters from Master deliver the latest innovation providing flexible heating wherever you need it. Users can choose between a battery, or traditional plug to power the unit, delivering unbeatable portability and the ability to take the heat wherever you need it.

Compatible with DeWALT® or Milwaukee® Lithium 18/20V Batteries. Easily use Porter Cable®, Black & Decker®, or Makita® batteries with our battery connectors (sold separately).



Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Type	Fuel Consumption (lb/Hr or Gal/Hr)	Max Operating Hours	Voltage/Amp.	Certification
MH-60VBOA-GFA	60,000	1,500	20 lb. Propane	1.6/2.8 (lb./Hr)	10.5*	18V DC Nom./ 0.35A	
MH-80TBOA-OFr	80,000	2,000	Kerosene/Diesel	0.63 (gal./Hr.)	6*	18V DC Nom./ 4A	
MH-80TBOA-KFA	80,000	2,000	Kerosene/Diesel	0.63 (gal./Hr.)	8*	18V DC Nom./ 5A	

\*Specification determined with unit running on power cord and full 20lb. propane cylinder or full fuel tank, time subject to change due to ambient air temperature. DeWalt®, Milwaukee®, Porter Cable®, Black&Decker®, and Makita® are registered trademarks of their respective owners. Master® is not associated, affiliated, licensed, or endorsed by DeWalt®, Milwaukee®, Porter Cable®, Black & Decker®, and Makita®.

**MASTER** ELECTRIC FAN HEATERS

With no requirement for ventilation, Master's Electric Fan Heater is the ideal way to heat indoor spaces. It's simple and sturdy design makes them a great heating solution for many demanding applications.

Master's Electric Fan Heater is effective for heating spaces such as garages, workshops, warehouses, etc.



MH-515-120

Model	Watts	Heat Output (BTU)	CFM	Heating Area (Sq ft)	Volts	Hz	Amps	Weight
MH-515-120	1500	5100	152	165	120	60	12.5	10

**PROTEMP** ELECTRIC FAN HEATERS

This ProTemp turbo-charged electric fan space heater doesn't require ventilation making it perfect for indoor spaces. It delivers clean, quiet heat and is easy to use and move making it the perfect heater for many applications.



PT-53-240

Model	Watts	Heat Output (BTU)	CFM	Heating Area (Sq ft)	Volts	Hz	Amps	Weight
PT-53-240	3000	10,200	180	320	208-240	60	15	14

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Please call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)

## HEAT HOG

### PORTABLE COMPACT PROPANE HEATER

This portable heater runs on 1lb. propane cylinders, is both indoor and outdoor safe, and doesn't require any electricity. Heat Hog offers reliable features and light weight construction making it the perfect portable heater.

Heat Hog is great for your garage, tailgating, ice fishing, hunting, camping, or anywhere you need reliable convenient heat.

#### FEATURES

- Adjustable tilting feature lets the user direct the heat where they need it most\*
- Maximize and optimize LP gas with the warming dock. The dock keeps the fuel warm, making sure to get the most BTUs out of each tank\*
- Curved plaque technology provides 33% greater heating area than leading competitors

- Rugged safety guard
- Safety tip-over switch
- Oxygen Depletion Sensor (ODS)
- Electronic ignition (HH-18SLN-A only).

\*not applicable to HH-04SLN-A



NEW!

Model	Heat Output (BTU)	Heating Area (Sq ft)	Fuel Type	Fuel Consumption (LB/hr)	Heat Setting	Max Operating Hours
HH-04SLN-A	4,000	100	1 lb. Propane Cylinder	0.19 lb/hr	1	5.3
HH-09SLN-A	9,000	225	1lb propane cylinder or 20lbs tank**	0.21 / 0.42 lbs/hr	2	4.7 / 2.3
HH-18SLN-A	18,000	450	1lb propane cylinder or 20lbs tank**	0.21 / 0.42 / 0.84 lbs/hr	3	4.7 / 2.3 / 1.1

\*\* Hose kit GC-00670 or GC-00671 required to operate a 20lb tank (not included).



## ZUBRI™ PORTABLE PROPANE HEATER

Extend your patio and tent use through the cooler seasons with portable radiant heaters. Zubri heats approximately a 300 square foot area. No tools are necessary to assemble and it comes with its own hard-shell carrying case. The heater utilizes 20 pound propane tank and is for outdoor use only.

#### FEATURES

- Portable legs detach for storage and transport
- Complete with hard-shell carrying case and carrying bag for reflector
- 40,000 Btu/hour maximum; adjust heat control
- Tip switch



Z1-12CK



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