



**SCHAEFER**



**MASTER**



**U.S. Assembly Plant**  
Sauk Rapids, MN



**China Assembly Plant**  
Qingdao, China

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.

### **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 ANSA/AMCA Standard 230-99 to convert thrust into airflow.

### **Product Warranty, Terms and Conditions Policies**

Warranty policies are outlined on page 33 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.

## **CONTACT US**

### **Mailing Address**

P.O. Box 460, Sauk Rapids, MN 56379

### **Shipping Address**

1660 13th Ave NE, Sauk Rapids, MN 56379

### **Phone Numbers**

(800) 779.3267 • (320) 251.8696

Fax: (320) 251.2922

### **E-Mail and Web Address**

[sales@pinnacleclimate.com](mailto:sales@pinnacleclimate.com)

[www.pinnacleclimate.com](http://www.pinnacleclimate.com)

[www.schaeferventilation.com](http://www.schaeferventilation.com)

### **Hours of Operation**

Monday through Friday 8:00 a.m. to 5:00 p.m.  
Central Time

SCHAEFER, MASTER, REMINGTON, AMERIC ARE REGISTERED TRADEMARKS OF PINNACLE CLIMATE TECHNOLOGIES.

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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PCXA-800



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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 Pinnacle’s China assembly plant from 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.





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

Reduce heat stress and improve air quality with Schaefer’s deep-guard circulation fans. Unrivaled in the industry, these fans are engineered to produce greater air movement and superior cooling with less noise. You don’t hear them. You don’t 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 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



VK12  
**THE INDUSTRY STANDARD FOR GREENHOUSE VENTILATION**

VK24



VK12TF-SPM-W  
**THE INDUSTRY STANDARD FOR TENTS AND EVENTS**

**SCHAEFER F5**  
F5-24  
**THE INDUSTRY STANDARD FOR SHOW CATTLE**



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
<b>Best Seller:</b> VK12TF-SPM-W	N/A	12"	Y	1	1/10	115/230	1.3/.65	1510	.90	1725	18	BL
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	1.2/0.6	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	1.2/0.6	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.





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

These durable and aesthetically pleasing fans feature a high airflow with a wide airflow pattern, which reduces 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 mount included



VK36

Best Seller!

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

\* 3-phase models available with VFD compatible motors  
 \*\* Single-phase speed control compatible



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

This is Schaefer's most popular 36" agriculture circulation fan. This fan features very high airflow with a narrow airflow pattern to deliver high volumes of fast moving air to cool cows and other animals.

- 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 mount included



36DF

Best Seller!

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

\* 3-phase models available with VFD compatible motors  
 \*\* Single-phase speed control compatible



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

Reduce heat stress and improve air quality with Schaefer's 36" oscillating or chain-mounted circulation fans. Designed for high airflow and high efficiency, these versatile and durable fans are the ideal cooling solution for any industrial or commercial facility.

- 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
VKC36**	VKC36-B**	36"	1	N	N	1/2	115/230	7.0/3.5	5.98	11,690	825	71	BL
VKC36-3*	VKC36-B-3*	36"	3	N	N	1/2	230/460	2.3/1.2	5.98	11,690	825	71	S
VKWO36	VKWO36-B	36"	1	Y	Y	1/2	115/230	7.0/3.5	5.98	11,690	825	130	BL

\* 3-phase models available with VFD compatible motors  
 \*\* Single-phase speed control compatible

MOUNT MODELS WITHOUT OSHA GUARDS SEVEN FEET OR HIGHER.





**GALVANIZED STEEL PANEL FANS**

Schaefer's galvanized steel panel fans combine low cost, high airflow and high air speeds for very high ROI livestock cooling. These fans are designed for agricultural livestock buildings requiring large volumes and velocities of air with a belt driven preference.

**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



Best Seller!

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



**60" GALVANIZED PANEL FANS**

The Schaefer 60" panel fan is designed with large air movement and energy efficiency in mind. These fans feature farm-duty drive belts, heavy-duty, totally enclosed, VFD capable motors and automatic idler tensioner arms. Use in agricultural buildings requiring large volumes and velocities of air movement. Ideal for freestall barns, feed lines, parlors, and holding pens.



**NEW!**  
60" Models  
for 2019

Model	Hp	Phase	Volts	Amps	CFM*	CFM/W*	Thrust (lbf)	Thrust Efficiency (lbf/kW)	VFD Capable	Tested
<b>HIGH VELOCITY</b>										
603GP112-3V-HV	1-1/2	3	208-230/460V	4.6-4.8/2.4	35,800	21.4	41.18	24.6	Yes	BL
603GP2-3V-HV	2	3	208-230/460V	6.0-5.8/2.9	36,300	20.8	42.52	24.5	Yes	BL
<b>HIGH EFFICIENCY</b>										
603GP112-3V-HE	1-1/2	3	208-230/460V	4.6-4.8/2.4	33,900	24.0	36.96	26.2	Yes	BL
603GP2-3V-HE	2	3	208-230/460V	6.0-5.8/2.9	34,300	23.4	37.88	25.8	Yes	BL

\*CFM and CFM/W values are calculated from BESS Lab thrust data.

Tested at AMCA 230-12

For safety and long fan life, mount panel fans seven feet or higher and in accordance with installation manual.



**52" POLYMER PANEL FANS**

Schaefer offers sophisticated and impact-resistant 52" polymer panel fans. These belt drive fans deliver an incredible amount of air, draw very little energy and make less noise than most fans. They are ideal for agricultural facilities with a higher susceptibility to corrosion and "show dairies" requiring specific aesthetics.

**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
- 1 and 1½ hp motors available



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

\* 3-phase models available with VFD compatible motors

Tested at AMCA 230-12



**PANEL FAN MOUNTING OPTIONS**

PANEL FAN MOUNTING OPTIONS		
Model	Description	Fan Size
PANELCMKIT3.5	Galvanized fan mount for panel fans with 3-1/2" collar for round columns with hardware	36" - 54"
PANELCMKIT4.5	Galvanized fan mount for panel fans with 4-1/2" collar for round columns with hardware	36" - 54"
PANELCMKIT5.5	Galvanized fan mount for panel fans with 5-1/2" collar for round columns with hardware	36" - 54"
PANELCMKIT6.5	Galvanized fan mount for panel fans with 6-1/2" collar for round columns with hardware	36" - 54"
PANELPM-UKIT	Galvanized fan mount with 90 degree bend for mounting panel fans to square post includes brackets and hardware	36" - 54"



**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)





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

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



VKX36MF-334-3

**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



Model	Diameter	Phase	Hp	Hz	Volts	Amps	Thrust (lbf)	CFM	RPM	Efficiency CFM/W	Thrust Efficiency (lbf/kW)	Tested
VKX36-334-3	36"	3	3/4	60	230/460	3.3/1.7	15.3	18,280	830	22.62	18.9	S
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

**VERSA-KOOL EXTREME FAN WITH MISTING RING**

VKX36MF-334-3	36" fan with misting ring. Same performance as VKX36-334-3											
VKX36MF-334-3-50	36" fan with misting ring. Same performance as VKX36-334-3-50											



**72" INDUSTRIAL CIRCULATION FAN**

Do you have a big space that requires a lot of air circulation? Look no further than the Bigdog®. Unlike ceiling fans that move a lot of air at low speeds in minimal cooling, the Bigdog moves massive amounts of air at high speeds for extremely efficient and effective cooling.

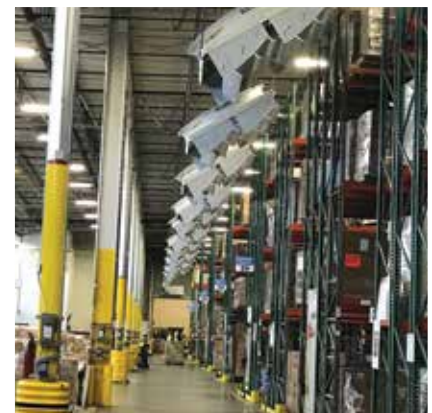


BD72-208460-3

The ultimate multitasker, Bigdog provides the cooling employees need in the summer to stay safe and more productive, while de-stratifying (pushing warm air down from the ceiling) in the winter to increase comfort and lower energy costs. One Bigdog fan replaces up to 20 smaller circulation fans and fits conveniently in corridors 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, pole and wall mounts 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



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



\* 3-phase models available with VFD compatible motors

MOUNT MODELS WITHOUT OSHA GUARDS SEVEN FEET OR HIGHER.





**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.



24CFO-EWDS



**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. Should not be pressure washed while operating.

**Polypropylene Blade**

A less expensive option. Excellent corrosion resistance. Excellent tolerance to a broad range of chemicals. Lighter weight. Should not be pressure washed while operating. The only blade choice for anodized aluminum motors.

Model	Diameter	Blade	Hp	Phase	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight
<b>STAINLESS STEEL MOTOR</b>	Best for frequent washdowns. 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
20CFO-SWDS-HV	20"	SS	1/2	1	115/230	8.2/4.1	3.92	5200	1725	41
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	24"	SS	1/2	1	115/230	8.2/4.1	5.18	7010	1725	44
<b>Best Seller!</b> 24CFO-SWDS-HV-Q	24"	SS	1/2	1	115/230	5.4/2.7	5.53	7330	1075	50
24CFO-SWDP	24"	Poly	1/2	1	115/230	8.2/4.1	5.62	7310	1725	44
<b>Best Seller!</b> 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 washdowns. USDA- and FDA- approved corrosion-resistant white epoxy finish. IP55 enclosure protection. 1-YEAR WARRANTY									
20CFO-EWDP	20"	Poly	1/3	1	115/230	4.9/2.5	3.67	4920	1700	30
20CFO-EWDP-3	20"	Poly	1/3	3	208-230/460	1.9-1.8/1.6	3.84	5040	1725	30
20CFO-EWDS	20"	SS	1/3	1	115/230	4.9/2.5	4.39	5480	1700	30
24CFO-EWDS	24"	SS	1/3	1	115/230	4.9/2.5	5.09	7020	1700	33
24CFO-EWDS-HV	24"	SS	1/2	1	115/230	7.4/4.3-3.7	5.23	7270	1725	35
24CFO-EWDP-HV	24"	Poly	1/2	1	115/230	7.4/4.3-3.7	5.65	7350	1725	35

<b>ANODIZED ALUMINUM MOTOR</b>	Best for high temperature applications. Only available with a polypropylene blade. IP55 enclosure protection. Class F insulation. Meets UL, CSA and CE standards. 1-phase is speed controllable. 3-phase is VFD compatible. 3-YEAR WARRANTY									
<b>Best Seller!</b> 20CFO-VWDP	20"	Poly	1/3	1	120	3.4	3.98	5130	1590	26
24CFO-VWDP	24"	Poly	1/3	1	120	3.4	4.98	6980	1590	30





**OSHA-COMPLIANT FIXED MOUNT CIRCULATION FANS**

Schaefer's OSHA-compliant fixed and oscillating circulation fans meet all OSHA safety regulations while delivering maximum airflow. These 2-speed fans have the versatility to be mounted on a ceiling, wall, pedestal or cart.



Twister™ oscillating fans rotate 90°, cooling up to 4000 square feet. Twister's 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.



24CFO



**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

Best Seller

White Model	Black Model	Diameter	Speeds	Hp	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
<b>NON-OSCILLATING FAN HEAD - Made in USA</b>											
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
<b>TWISTER OSCILLATING FAN HEAD - Assembled in USA</b>											
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
TW24HVW	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

**MOUNTING ACCESSORIES AVAILABLE ON PAGE 32**



**OSHA-COMPLIANT PEDESTAL FANS AND FAN CARTS**

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

**FEATURES**

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



24FC-B



TW24B-PB

Fan Head (see above)		Fan with Round Black Pedestal		Fan with Tripod Black Pedestal	Fan and Black Cart	
WHITE	BLACK	WHITE	BLACK	BLACK	WHITE	BLACK
<b>NON-OSCILLATING FAN HEAD - Made in USA</b>						
20CFO	20CFO-B	20PFR	20PFR-B	20TPQR-B	20FC	20FC-B
24CFO	24CFO-B	24PFR	24PFR-B	24TPQR-B	24FC	24FC-B
30CFO	30CFO-B	30PFR	30PFR-B	-	30FC	30FC-B
36CFO	36CFO-B	36PFR	36PFR-B	-	-	-
<b>TWISTER OSCILLATING FAN HEAD - Assembled in USA</b>						
TW20W	TW20B	TW20W-PB	TW20B-PB	TW20B-TPQR	-	-
TW24W	TW24B	TW24W-PB	TW24B-PB	TW24B-TPQR	-	-
TW24HVW	TW24HVB	TW24HVW-PB	TW24HVB-PB	TW24HVB-TPQR	-	-
TW30W	TW30B	TW30W-PB	TW30B-PB	-	-	-

**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—places where quality matters.



Best Seller!

Fan Head	Fan and Pedestal	Diameter	Speed	Hp	Volts	Amps	CFM	RPM	Weight	Tested
<b>NON-OSCILLATING FAN HEAD - Made in the USA</b>										
30CFO-SY	30PFR-SY	30"	2	1/2	115	5.2/2.8	9420/7000	1075/850	53   91	S
36CFO-SY	36PFR-SY	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-SY	TW30PFR-SY	30"	2	1/2	115	5.9	9600/8500	1075/750	62   100	S
<b>WALL MOUNT ACCESSORIES</b>										
WMTA36-SY	Wall mount for 36" and smaller fans. Dimensions: 23" x 20" x 3", 7 lb.									

**Tuff & Gusty** ECONOMY CIRCULATION FANS

Schaefer's line of imported economy fans are loaded with features but also aggressively priced for your indoor and outdoor cooling and ventilation needs. The fans are UL507 certified but use of GFCI outlets is recommended.

**FEATURES and BENEFITS**

- Quiet operation, high efficiency and output
- OSHA-compliant safety guards
- Totally enclosed, maintenance free, high efficiency motors with completely sealed bearings and built-in thermal overload protection
- Powder-coated guards
- Pull chain speed adjustments on wall/ceiling fans
- Fully adjustable wall or ceiling mount for 18" fans
- Imported



Best Seller!

Wall Model	Diameter	Speeds	Volts	Amps	CFM	Color	Tested
<b>OUTDOOR RATED WALL AND PEDESTAL MOUNTED FANS</b>							
TG18-3WW	18"	3	115	1.47/1.33/1.01	3040/2590/1970	White	S
TG18-3WB	18"	3	115	1.47/1.33/1.01	3040/2590/1970	Black	S

**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)





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

Often imitated but never duplicated, Schaefer's Americ® Confined Space Ventilators are the industry standard when it comes to providing safe and reliable ventilation in any confined space working 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 UL, CSA and CE certifications, exceeding industry standards\*^>
- Positive and negative airflow (blows and extracts)
- Lightweight for easy portability
- Stackable to save storage space
- Extensive line of accessories for ease of use and storage, see page 11



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
VAF1500B^	8"	220	1	50	1/4	1.3	3200/2260	1.5"	749	18	S
<b>12" INDUSTRIAL VENTILATOR 21"H X 17"L X 14"W</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	20.5"	220	1	60/50	5	21.2	3250/2700	6.1"	7400	119	S
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

Best Seller!

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

\* UL & CUL listed  
 ^ CE listed  
 > UL and C-UL 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 of -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, and dry for ease of transport and longer life.



AM-DCP1225

Model	Ventilator Type
<b>DUCT STORAGE</b>	
AM-DSR0825	Metal Duct Storage Rack, 8"
AM-DCP0825	Plastic Duct Carrier, 8"
AM-DSR1225	Metal Duct Storage Rack, 12"
AM-DCP1225	Plastic Duct Carrier, 12"



Best Seller!

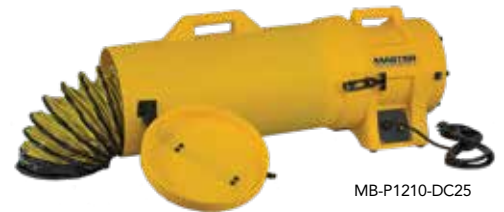
Best Seller!

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
<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

Best Seller!

### MASTER FLOOR DRYER

For superior carpet and floor drying, choose Master's Low Profile Carpet Dryer for the toughest jobs. Built with rugged poly housing, this unit can handle whatever you throw at it. Cleanup is simple with its five drying positions, and its lightweight and compact design provides convenient portability for moving the dryer wherever it's needed most. Need even more power? Daisy chain up to six units together for maximum drying power.



MAC-121CDP

Model	Description	Speed	Volts	Amps	CFM	Cord Length	Color	Certified
MAC-121CDP	6" Floor Dryer	2	110	2.18	1100	25'	Black/Yellow	ETL C/US





**VERSA-KOOL® MOBILE DRUM FANS**

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



VKM36-B



VKO36



VKT36-B



**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

Best Seller!

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
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 TILTABLE FANS</b>												
VKT36-O	VKT36-B-O	36"	1	1/2	115/230	7.0/3.5	Direct	5.74	11,700	825	107	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

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



**48" HEAVY-DUTY MOBILE BOX FAN**

Schaefer's rugged mobile box fan is ideal for applications where light portable fans do not last. These "ultra quiet" heavy-duty fans move large amounts of air into, out of, or through any work area, making them perfect for cooling people, processes and equipment. Schaefer's 48" mobile box fan is the ideal solution for safe, portable cooling in any industrial or commercial setting and can be used as a circulation fan or a portable inlet or exhaust fan.

**FEATURES and BENEFITS**

- Industrial-grade, galvanized steel housing withstands the rigors of the work environment
- 2-speed, single-phase, totally enclosed motor with automatic thermal protection
- Front and back OSHA-compliant guards for maximum safety



MOB4851-2



Model	Diameter	Speeds	Hp	Volts	Amps	CFM	RPM	Weight	Tested
MOB4851-2	48"	2	1	115	12.4/6.4	14,100/9710	1725/1140	270	S

# MASTER

## HEAVY-DUTY INDUSTRIAL BARREL FANS

Master® high capacity heavy-duty industrial fans outshine traditional barrel fans to blow massive amounts of air and reduce your reliance on A/C. Their heavy-duty steel construction includes ultra-thick barrels and guards, giving you a fan that can take the abuse of any industrial setting and that will handle the toughest demands. 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
- 4-blade, oversized fan
- High-efficiency industrial motor
- Fuse-protected accessory outlet for daisy-chaining multiple fans
- Heavy-duty, solid wheels
- Machined, built-in handle
- Powerful, ultra-thick steel construction
- OSHA-compliant safety guards



MHD-36D

MHD-42-BDF

Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Certified
MHD-36-BDF	Belt	2	1/2	36"	120	5.2	10,400/7500	UL C/US
MHD-42-BDF	Belt	2	3/4	42"	120	5.8	14,800/12,000	UL C/US
MHD-36D	Direct	2	1/2	36"	120	3.6	13,700/9500	ETL C/US

Best Seller!

# MASTER

## PEDESTAL AND WALL-MOUNTED FANS

Master® high velocity pedestal and wall-mounted fans deliver a cooling breeze for any space at a great price. The fans are tiltable and steerable, putting the breeze wherever it's needed most.

### FEATURES and BENEFITS

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



MHD-30W  
Wall Mount



MHD-30P

Model	Drive	Speed	Hp	Diameter	Volts	Amps	CFM	Weight	Certified
<b>PEDESTAL FANS</b>									
MHD-24P	Direct	3	1/3	24"	120	2.5	4100/3500/3100	46	ETL C/US
MHD-30P	Direct	3	1/3	30"	120	2.5	6200/5800/5200	51	ETL C/US
<b>WALL-MOUNTED FANS</b>									
MHD-24W	Direct	3	1/3	24"	120	2.5	4100/3500/3100	36	ETL C/US
MHD-30W	Direct	3	1/3	30"	120	2.5	6200/5800/5200	41	ETL C/US

**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)





**PORTABLE EVAPORATIVE COOLER**

WayCool® portable evaporative coolers use the natural cooling process of evaporating water 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!



WC-1HPMFAOSC



WCG-1HPMFA  
Shown with optional pneumatic wheels and aluminum inlet grates.

**FEATURES and BENEFITS**

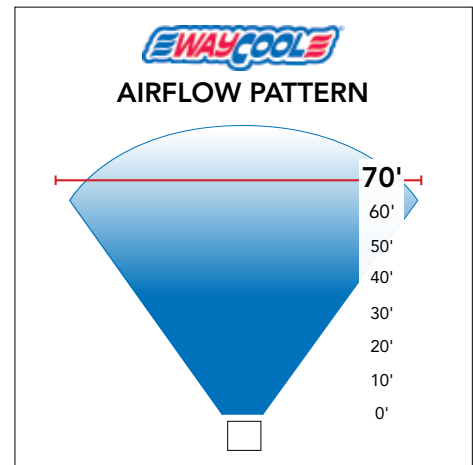
- Oscillating outlet for greater coverage up to 4,700 square feet
- Approximately 75% lower energy consumption and 50% less expensive than the equivalent capacity portable air conditioner
- Automatic low-water level shut-off to prevent pump damage
- Built-in water reservoir for standalone use or connect 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
- 220V models available - limited quantities

**OPTIONS and ACCESSORIES**

- Airstream Diffuser attaches to outlet nozzle to direct air where needed most for enhanced utility
- Rugged, all-terrain pneumatic wheels
- 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
- Humidity controller to manage humidity levels with the turn of a dial



Airstream Diffuser



See page 15 for all additional accessories and replacement pads

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°
WC-1HPMFAOSC	WCG-1HPMFAOSC	Oscillating	2	1	115	15	3020/2040	27/19	4.0	20°

Best Seller!

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

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







**EVAPORATIVE COOLER**

Pro-Kool® blows large volumes of cooled air in a broad stream to cool large areas. Pro-Kool uses the natural cooling process of evaporating water to reduce temperatures up to 30°F and can be used both indoors and outdoors. The portable, rugged design makes it the perfect solution for cooling work areas in any industrial facility when standard air conditioning is ineffective or too costly.

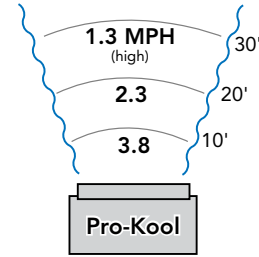


**FEATURES and BENEFITS**

- Industry leader for airflow, with 11,200 CFM on high
- Cooling capacity of over 13 tons\*\* to cool up to 3,250 square feet
- Automatic low-water levels shut-off to prevent pump damage
- Built-in 38-gallon water reservoir for standalone use or connect to a garden hose for continuous use
- Specially treated, dual-water drip over, thick cellulose evaporative pads for increased performance and extended pad life
- Ergonomic design with integrated cart and large handle for easy movement
- Fits on lift gates for ease of transport
- Humidity controller to run the unit based on humidity levels (optional)
- Dimensions: Base 54" x 34.5" x 74" tall
- 220V models available - limited quantities



PROK142-2HV



Best Seller!

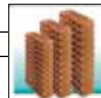
Model	Hp	Volts	Minimum Circuit Size (Amps)	CFM Hi-Lo	Velocity at Outlet (mph)	Cooling** (tons)	Cooling*** (degrees F)
PROK142-2HV	1	115	15	11,200/7400	13/8	13.5	15

\*\* Cooling in tons on Hi at 90°F and 40% relative humidity \*\*\* Temperature drop (inlet temp-outlet temp) at 90°F and 20% relative humidity

**EVAPORATIVE COOLER ACCESSORIES, CONDITIONER AND CLEANER**

**WAYCOOL AND PRO-KOOL ACCESSORIES**

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



**WAYCOOL REPLACEMENT PADS, FILTERS AND GRATES**

WC-1/3FPAD	WC-1/3HP full evaporative pad (4 Full pads required for 1/3 hp unit)*
WC-1/3HPAD	WC-1/3HP half evaporative pad (4 Half pads required for 1/3 hp unit)*
WC-GRATESM-A	1/3 hp WayCool aluminum grate inlet for WC-1/3HP*
WC-GRATESM	1/3 hp WayCool plastic grate inlet for WC-1/3HP*
WC-1HPPAD	WC-1HP full evaporative pad (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

**PRO-KOOL REPLACEMENT PADS • 28" PRO-KOOL PADS AVAILABLE**

42PKPAD (old style)	42" Pro-Kool evaporative pad, 48" tall pad - 4 required per unit*
42PKPAD-R	42" Pro-Kool evaporative pad, 54" tall pad - 4 required per unit*

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



**RESERVOIR-50  
Versa-Filler™**

Triple your Pro-Kool and WayCool cooling time with the rugged one-piece polyethylene Versa-Filler tank mounted on a heavy-duty metal frame with 5" hard rubber casters for mobility and a 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 or Pro-Kool to manage humidity levels with the turn of a dial.



**WC-CTAB  
Water Conditioner**

A time release formula that controls unpleasant odors from algae and bacteria. Neutralizes odor in cooler water to fresher cooler air. Just use one tablet when odor is present or to maintain a clean tank.



**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. Low pressure mist technology combines fine mist and high speed air movement for highly effective “person” cooling indoors and outdoors. The 18”, 3-speed fan provides up to seven hours of uninterrupted use and is ergonomically designed for portability. The VersaMist is ideal for cooling work areas, rehabilitation stations, outdoor events, emergency workers, patios, and sidelines.

**FEATURES and BENEFITS**

- Available with or without wheels
- Wheeled version has integrated handle and wheels for easy movement
- 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
- Integral tip switch to turn power off if unit is knocked over
- 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 an evaporative cooling 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	Without Shut-Off Valve	Fits Fan Diameter	Nozzles	gph	Btu/hr	kW	tons
MKLP12SO-3B	MKLP12-3B	12"	3	1.7	13,440	3.9	1.1
MKLP20SO-4B	MKLP20-4B	20"	4	2.2	17,920	5.3	1.5
MKLP24SO-4B	MKLP24-4B	24"	4	2.2	17,920	5.3	1.5
MKLP30SO-5B	MKLP30-5B	30"	5	2.8	22,400	6.6	1.9
MKLP36SO-6B	MKLP36-6B	36"	6	3.4	26,880	7.9	2.2
MKLP42SO-7B	MKLP42-7B	42"	7	3.9	31,360	9.2	2.6

MISTING NOZZLES WITH BRASS & STAINLESS STEEL INSERT	
Model	Description
BN8	HP misting nozzle, .008" orifice, 10/24 thread
BN8-1224	HP misting nozzle, .008" orifice, 12/24 thread
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
BNP-1224	Misting plug, brass, 12/24 thread

- Packages of nozzles available at a discount:
- BN8-1024-6PAK (6: BN8 nozzles)
  - BN8-1224-6PAK (6: BN8-1224 nozzles)
  - BN12-1024-4PAK (4: BN12 nozzles)

## FlipFan® FlipFan DAIRY COOLING SYSTEM



FlipFan® from Schaefer is the state-of-the-art in cow cooling. Unlike fixed-fan cooling systems, FlipFan adjusts for sun angle, wind speed, temperature and humidity to keep the cooling on your cows and provide maximum cow cooling all day and night.

The patented Schaefer FlipFan dairy cooling system consists of advanced 36" high-velocity misting fans mounted on a horizontal rotational mounting structure and an advanced control system which 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 that are a minimum of 14' high.

In side-by-side tests against other leading arid climate dairy cooling systems, FlipFan provides equal or greater cow cooling, 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 that has 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.

SuperCoolers are typically deployed in dairies with high roofs and which are protected from the prevailing wind and sun with shade curtains. 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



Please 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**

Schaefer's Wet Wall Evaporative Cooling Systems in conjunction with Schaefer exhaust fans, uses the natural cooling process of water evaporation to provide up to 30°F of cooling for large volume buildings. Ideal for cooling animal confinement facilities, greenhouses, warehouses, factories and other large facilities.

The snap together "no-leak" PVC system, including supply line, spray line and reservoir, is easy to install, operate and maintain. Water that does not evaporate is re-cycled through the pads, so no water is wasted. Comes with single- or multi-stage automatic controls and center-feed and end-feed water supply.



**FEATURES and BENEFITS**

- Standard wet wall lengths: 10' to 60' in 5' increments
- Standard wet wall heights: Single Stacked Systems 4', 5' and 6' and Double Stacked Systems 8'-12' in 1' increments
- Custom lengths and heights available by special order
- Uncoated, 1-side coated and 2-side coated pads available in 4" and 6" pad thicknesses lasting up to 5-years with proper pad maintenance
- Choice of 1/3 or 3/4 hp Gould™ pumps; 115V or 230V
- Single- or multi-stage automatic controls available



**WET WALL PADS / EVAPORATIVE MEDIA**

Wet wall pads are for use in Schaefer Wet Wall Cooling 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 OPTIONS**

- Thickness: 4" and 6"
- Length: 4', 5' and 6'
- Width: 12" and 24"
- Uncoated, 1-side coated and 2-side coated

**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-T80-110V	Timer/cutout switch 0-80 min., 110V
SS-T80-220V	Timer/cutout switch 0-80 min., 220V
SS-CSDK-110V	Cool Sense single direction kit, 110V
SS-CSDK-220V	Cool Sense single direction kit, 220V



For assistance with these cooling systems call Customer Care at 1.800.779.3267 or visit [www.pinnacleclimate.com](http://www.pinnacleclimate.com)



**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. The robust, fiberglass housing is UV-protected and comes equipped with an easy-to-install, one-piece polyethylene cone, for long life. 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 18.

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, 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
575CF112G-3-HV*	1.5	5	4.6-4.8/2.4	459	30,500	21.3	29,000	19.7	27,100	17.9	0.81	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
575CF2G-3-HV*	2	5	6-5.8/2.9	494	33,000	18.9	31,400	17.5	29,900	16.2	0.85	BL
<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
575CF112G-1-HV	1.5	5	13.6/6.8	449	30,000	20.9	28,300	19.1	26,400	17.3	0.8	BL
573CF2G-1-HV	2	3	9.5	584	33,300	18.3	31,400	16.8	28,900	15.1	0.82	BL
575CF2G-1-HV	2	5	9.5	492	32,900	17.9	31,500	16.6	29,800	15.2	0.84	BL
<b>BELT-DRIVE, HIGH EFFICIENCY, 3-PHASE</b>												
573CF112G-3-HE*	1.5	3	4.6-4.8/2.4	531	29,700	23.1	27,600	20.8	25,000	18.3	0.75	BL
575CF112G-3-HE*	1.5	5	4.6-4.8/2.4	435	29,000	23.4	27,100	21.1	24,800	18.8	0.78	BL
573CF2G-3-HE*	2	3	6-5.8/2.9	536	30,300	22.8	28,100	20.4	25,700	18.2	0.76	BL
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>BELT-DRIVE, HIGH EFFICIENCY, SINGLE-PHASE</b>												
573CF112G-1-HE	1.5	3	13.6/6.8	497	27,600	24	25,100	21.1	22,600	18.5	0.68	BL
575CF112G-1-HE	1.5	5	13.6/6.8	431	28,700	22.6	27,000	20.6	24,900	18.5	0.76	BL
573CF2G-1-HE	2	3	9.5	502	28,000	23.4	25,600	20.8	23,000	18.3	0.69	BL
575CF2G-1-HE	2	5	9.5	424	28,100	22.3	25,800	20.4	23,300	18.1	0.72	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

Best Seller

Best Seller

NEW!

NEW!

Blade Type: G: Galvanized  
 \* 3-phase models are VFD compatible.





**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, garages and other locations, where building owners value low capital cost and low operating cost.



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
<b>FFM363S12DD</b>	36"	1	1	3	SS	1/2	115/230	7.0/3.5	9320	43-1/2" x 43-3/4"	S
<b>FFM363S12DD-3</b>	36"	1	3	3	SS	1/2	230/460	2.3/1.2	9320	43-1/2" x 43-3/4"	S

Best Seller!

<b>BELT-DRIVE FIBERGLASS EXHAUST FANS</b>											
<b>FFM363G12</b>	36"	1	1	3	GS	1/2	115/230	4.6/2.3	9320	43-1/2" x 43-3/4"	S
<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>FFM483G1</b>	48"	1	1	3	GS	1	115/230	9.8/4.9	18,610	55-3/4" x 56-1/4"	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>FFM523G1</b>	52"	1	1	3	GS	1	115/230	9.8/4.9	24,060	59-1/4" x 59-1/4"	S
<b>FFM525G1</b>	52"	1	1	5	GS	1	115/230	9.8/4.9	24,250	59-1/4" x 59-1/4"	S
<b>FFM523G112</b>	52"	1	1	3	GS	1-1/2	208-230	6.8-6.4	24,060	59-1/4" x 59-1/4"	S

Best Seller!

<b>BELT-DRIVE FIBERGLASS HAZARDOUS LOCATION EXHAUST FANS</b>											
<b>FFM365A34-HL</b>	36"	1	1	5	AL	3/4	115/208-230	12.6/6.3	9500^	43-1/2" x 43-3/4"	S
<b>FFM365A34-3-HL</b>	36"	1	3	5	AL	3/4	208-230/460	2.8-2.9/1.4	9500^	43-1/2" x 43-3/4"	S

^ CFM at free air

Note: Other motor and blade combinations available

\* 3-phase model available with VFD compatible motors



**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.

**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



PFM126P13



HOUSING

Best Seller!

Best Seller!

Model	Diameter	Shutter Material	Wings	Blade Material	Phase	Hp	Volts	Amps	CFM@ 0.05" SP	Rough-In (W x H)	Tested
PFM096P16	9"	PVC	6	Polyethylene	1	1/6	115/230	1.9/1.0	1090	13-3/4" x 14-1/2"	BL
PFM126P13*	12"	PVC	6	Polyethylene	1	1/3	115/230	3.8/1.9	1540	15-3/4" x 16-3/4"	BL
PFM163A13*	16"	PVC	3	Aluminum	1	1/3	115/230	3.8/1.9	2970^	19-1/2" x 20-1/2"	S
PFM163P13*	16"	PVC	3	Polyethylene	1	1/3	115/230	3.8/1.9	3090	19-1/2" x 20-1/2"	BL
PFM203A13*	20"	PVC	3	Aluminum	1	1/3	115/230	3.8/1.9	3530^	23-1/2" x 24-3/4"	S
PFM203P13*	20"	PVC	3	Polyethylene	1	1/3	115/230	3.8/1.9	3530	23-1/2" x 24-3/4"	BL
PFM204A12	20"	PVC	4	Aluminum	1	1/2	115/230	7.0/3.5	3200^	23-1/2" x 24-3/4"	S
PFM204P12*	20"	PVC	4	Polyethylene	1	1/2	115/230	4.8/2.4	4970	23-1/2" x 24-3/4"	BL
PFM204A12-3	20"	PVC	4	Aluminum	3	1/2	230/460	2.3/1.2	3150^	23-1/2" x 24-3/4"	S
PFM204P12-3	20"	PVC	4	Polyethylene	3	1/2	230/460	1.2/.6	4790	23-1/2" x 24-3/4"	S
PFM244P12A*	24"	Aluminum	4	Polyethylene	1	1/2	115/230	4.8/2.4	5300	29" x 29-1/2"	BL
PFM244P12-3A	24"	Aluminum	4	Polyethylene	3	1/2	230/460	1.2/.6	4020	29" x 29-1/2"	BL
PFM244P12-3	24"	PVC	4	Polyethylene	3	1/2	230/460	1.2/.6	3770	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
PFM245G12-3A	24"	Aluminum	5	Galvanized	3	1/2	230/460	2.3/1.2	5140	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
PFM2000-1-HL	20"	Aluminum	3	Aluminum	1	1/3	115/230	3.6/1.8	3520^	23-1/2" x 24-3/4"	S
PFM2400-1-HL	24"	Aluminum	5	Aluminum	1	1/2	115/230	9.8/4.9	6140^	29" x 29-1/2"	S
PFM2400-3-HL	24"	Aluminum	3	Aluminum	3	1/2	208-230/460	3.6/1.8	6230^	29" x 29-1/2"	S

^ CFM at free air

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





**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
- Aluminum slant walls fans have aluminum housings, blades and motor mounts for extremely long life
- 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 or aluminum  
 Motor Horsepower: 1/2, 3/4, 1, 1-1/2 or 2 hp  
 Motor Phase: 1-phase or 3-phase  
 Motor Speed: 1-speed or 2-speed



**BEST SELLERS**

GALVANIZED MODEL	ALUMINUM MODEL	Diameter	Wings	Drive	Phase	Hp	Volts	Amps	CFM@ 0.05" SP	Rough-in (W x H)*	Tested
245SDD12	N/A	24"	5	Direct	1	1/2	115/230	7.0/3.5	6600	31" x 31-3/4"	S
245S12	N/A	24"	5	Belt	1	1/2	115/230	4.6/2.3	6100	31" x 31-3/4"	S
303SDD12	N/A	30"	3	Direct	1	1/2	115/230	7.0/3.5	7200	37" x 37-3/4"	S
305S12	305AS12	30"	5	Belt	1	1/2	115/230	4.6/2.3	7010	37" x 37-3/4"	BL
363S12	N/A	36"	3	Belt	1	1/2	115/230	4.6/2.3	9340	43" x 43-3/4"	BL
<b>Best Seller!</b> 365S12	365AS12	36"	5	Belt	1	1/2	115/230	4.6/2.3	9520	43" x 43-3/4"	BL
425S1	N/A	42"	5	Belt	1	1	115/230	9.8/4.9	14,370	49" x 49-3/4"	S
425S1-2	N/A	42"	5	Belt	1	1	230	5.3/3.0	10,970	49" x 49-3/4"	S
485S1	485AS1	48"	5	Belt	1	1	115/230	8.4/4.2	18,600	55" x 55-3/4"	BL
<b>Best Seller!</b> 485S112	485AS112	48"	5	Belt	1	1-1/2	208-230	6.8-6.4	23,100	55" x 55-3/4"	BL
545S112G	N/A	54"	5	Belt	1	1-1/2	208-230	6.8-6.4	25,700	61" x 62"	BL
545S112G-3	N/A	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.



363B12

#### 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



#### 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	48"	3	1	1	115/230	9.8/4.9	19,300	55" x 55"	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
363B12DD-3-HC	36"	3	3	1/2	230/460	2.3/1.2	11,400	43" x 43"	S

## SCHAEFER

### BELT-DRIVE LIGHT TRAP BOX EXHAUST FANS

These 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 pads, the fan and light trap pad combination will create a 100% barrier against natural light, allowing growers to precisely control growth cycles.



365B1G-LT

- Specifically tuned and tested to run at peak performance with the light trapping assemblies in place
- Includes all components to safely mount and secure standard 10" light trap pads (**light trap pad not included**)
- Extra deep construction for conveniently housing light trap pads away from the interior work area

Model	Diameter	Wings	Phase	Speed	Hp	Volts	Amps	CFM@0.00" SP	Rough-in (W x H)	Tested
365B1G-LT	36"	5	1	1	1	115/230	9.8/4.9	9890*	43" x 43"	S
365B1G-2-LT	36"	5	1	2	1	115	12.4/5.4	10,950	43" x 43"	S
425B112G-LT	42"	5	1	1	1-1/2	208-230	6.8-6.4	14,250*	49" x 49"	S
485B2G-LT*	48"	5	1	1	2	230	9.5	20,500	55" x 55"	S
545B2G-LT*	54"	5	1	1	2	230	9.5	31,300	61" x 62"	S

• Tested at CFM@0.05" SP.  
\* 3-Phase models available





**FIBERGLASS HOOD-STYLE EXHAUST FANS**

Do you need to move some air, but don't need a full sized exhaust fan? Schaefer's fiberglass hood style exhaust fans are the perfect solution. These fans are designed for thin walled, modest sized facilities, including greenhouses, garages and workshops.

The fans mount on the inside the building. The shutter and weatherhood mount on the outside of the building and provide the ultimate weather protection for extended life and sustained performance.

**FEATURES and BENEFITS**

- High-quality, energy-efficient, maintenance-free motors for maximum performance and ease of use
- Polypropylene fan blades for high performance and long life
- Integrated heavy-duty aluminum shutters for increased durability
- Molded, one-piece fiberglass weatherhood for extended fan life and sustained performance (optional FH-1200, FH-1600 and FH-2000)
- Available in 12", 16" and 20" sizes



Model	Description	Phase	Hp	Volts	Amps	CFM@0.05" SP	Rough-In (W x H)
H1200-1*	12" Hood-style exhaust fan with shutter	1	1/3	115 / 230	3.8 / 1.9	1600	13" x 13"
H1600-1*	16" Hood-style exhaust fan with shutter	1	1/3	115 / 230	3.8 / 1.9	2620	17-3/8" x 17-3/8"
H2000-1*	20" Hood-style exhaust fan with shutter	1	1/3	115 / 230	3.8 / 1.9	3320	21-1/4" x 21-1/4"
HC2000-1*	20" Hood-style high capacity exhaust fan with shutter	1	1/2	115 / 230	4.8 / 2.4	5730	21-1/4" x 21-1/4"
HC2000-1-3	20" Hood-style high capacity exhaust fan with shutter	3	1/2	230 / 460	1.2 / 0.6	4780	21-1/4" x 21-1/4"

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

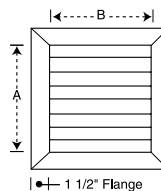


**SHUTTER-STYLE EXHAUST FANS**

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"

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

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

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

**SCHAEFER**  
**ALUMINUM SHUTTERS**

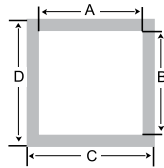
Schaefer's aluminum shutters allow airflow in a single direction and are used as building air inlets to feed Schaefer exhaust fans, or on exhaust fans to prevent air entry when the fan is not operating. Aluminum shutters are built tough for long life in the most demanding environments, all at an affordable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

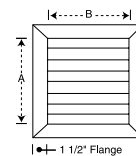
Note: Using shutter motors on larger shutters than those specified invalidates our warranty.

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



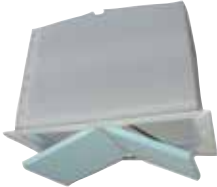



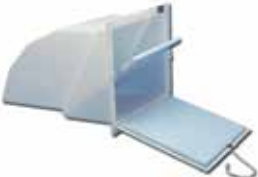

Additional shutter sizes and shapes available by special order. Please call 1.800.779.3267 for more information.



**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)
	RV-3000	<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" 
	CI-1300	<b>CEILING INLET</b> <ul style="list-style-type: none"> <li>Draws fresh air from above an interior ceiling</li> <li>Mounts flush with ceiling and extends 16" into attic</li> <li>Durable polyethylene housing with insulated damper doors</li> <li>Normally closed damper doors open wider with higher airflow</li> <li>Fits between 16" or 24" ceiling joists</li> </ul>	1350	13-1/2" x 22-3/4" 
	WI-1000P	<b>WALL INLET</b> <ul style="list-style-type: none"> <li>Draws outside air through walls up to 8" thick</li> <li>Mounts flush to an interior wall</li> <li>Durable polyethylene housing with insulated damper door and air deflectors adjust airflow volume and direction with the seasons</li> <li>Weatherhood protects bird screened inlet from the elements</li> </ul>	1000	22-5/8" x 11-1/2" 
	WI-2000P	<b>WALL INLET</b> <ul style="list-style-type: none"> <li>Draws outside air through walls up to 6" thick</li> <li>Mounts flush to an interior wall</li> <li>Durable polyethylene housing with insulated damper door and air-stop door adjust airflow volume and direction with the seasons</li> <li>Weatherhood protects bird screened inlet from the elements</li> </ul>	2000	22-3/4" x 19" 

**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



**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
<b>SPEED CONTROLS</b>	
 AVS-500	<b>AVS-500</b> Temperature based Automatic Variable Speed control in water and corrosion resistant container with adjustable idle speed, adjustable temperature differential, automatic shutoff and RFI filter; 10A@115/230V output.
 AVS-550	<b>AVS-550</b> 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@115/230V output.
 AVS-650	<b>AVS-650</b> Temperature based Automatic Variable Speed control in water- and corrosion-resistant container with adjustable idle speed, adjustable temperature differential, automatic shutoff, heater interlock, digital display and RFI filter; 10A@115/230V output.
 MTC-300	<b>MTC-300</b> Temperature based Automatic Variable Speed control in water- and corrosion-resistant container with adjustable idle speed, adjustable temperature differential, and RFI filter; 10A@115/230V output.
 H-115	<b>H-115</b> Manual Variable Speed Control with RFI filter in water- and corrosion-resistant container; 6A@115V output.
 H-230	<b>H-230</b> Manual Variable Speed Control with RFI filter in water- and corrosion-resistant container; 6A@230V output.
 MSC-400	<b>MSC-400</b> Manual Variable Speed Control with on/off toggle switch and RFI filter in non-corrosive container; 12.5A@115/230V output.
	
<b>HUMIDISTAT, THERMOSTATS AND SWITCHES</b>	
 TP520	<b>THC-1</b> Humidity Controller for portable evaporative coolers to manage humidity levels with the turn of a dial.
	<b>TP518</b> 1-Stage Thermostat Switch, 30°F to 110°F with 3° differential, NEMA 4x, UL E50023; 16A@120V, 12A@240V.
	<b>T335</b> 1-Stage Thermostat Switch, 40°F to 102°F with 2.7° differential, weatherproof enclosure: 12A@120V, 10A@240V; imported.
	<b>TP520</b> 2-Stage Thermostat Switch, 30°F to 110°F with 3° differential, NEMA 4x, UL E50023; 16A@120V, 12A@240V.
	<b>FS-20</b> Manual Switch for 2-speed motors with heavy duty toggle switch in water- and corrosion-resistant container.
	
<b>PROGRAMMABLE CONTROLLERS</b>	
 PEC-PLUS	<b>PEC-PLUS</b> 8-Stage Environmental Control with 2 variable stages and 6 relay stages plus 1 alarm relay; programmable; adjustable temperature set-point, differential and hi/lo alert settings; LED display; corrosion-, water- and fire-resistant enclosure; CSA approved; 10A@115/230V (variable stages) and 10A@115/230V (relay stages).
	

**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

**Extremely Quiet!**

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 allows for 50% less 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).

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.



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	10	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 MODELS ONLY



MH-80T-KFA



MH-190T-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	9	240	1/8	120	60	1.5	28
MH-140T-KFA	140,000	3500	10	1.1	9	540	1/5	120	60	2.3	49
MH-190T-KFA	190,000	4750	13	1.42	9.2	630	1/4	120	60	2.7	58
MH-215T-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.



MH-150V-GFA

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
MH-60V-GFA-A	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.

Extremely Quiet!



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	0.90	20	120	60	.421/.379	68

For assistance with these 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-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

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	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	12 - 14 - 16,000	20 lb. Propane	3	0.56/0.65/0.74	39.5/30.8/27.0	300/350/400	3
MH-32-TTC	25 - 28 - 32,000	20 lb. Propane	3	1.16/1.30/1.49	17.2/15.4/13.4	620/700/800	6



## MASTER ELECTRIC FAN HEATERS

With no requirement for ventilation, Master’s Electric Fan Heaters are the ideal way to heat indoor spaces. Their simple and sturdy design makes them a great heating solution for many demanding applications.

Master’s Electric Fan Heaters are effective for heating spaces such as garages, workshops, warehouses, etc.



MH-53-240



MH-410R-240

Model	Watts	Heat Output (BTU)	CFM	Heating Area (Sq ft)	Volts	Hz	Amps	Weight
MH-515-120	1500	5100	152	165	120	60	15	10
MH-53-240	3000	10,200	180	320	208-240	60	15	14
MH-410R-240	4800	16,600	410	400	240	60	20	13

## HotZone HIGH-INTENSITY GAS INFRARED HEATERS

The HotZone® high-intensity gas heater delivers a large amount of radiant heat to a small area from a long distance. Heaters are available with standard lenses for larger area heating or HotZone linear an oval spot pattern or circular spot IRLens® for more focused heating. The HotZone high-intensity gas heater use natural gas or propane heaters and are for indoor use only. They are not recommended for home or garage use.

Schaefer’s K-Series two-stage high-intensity heaters maintain precise control of inside temperatures. Providing a soft heat ‘low fire’ and jumping to ‘high fire’ on demand allows for lower energy costs and controlled comfort levels.



Heater Series	Fuel	Power	Mounts	Control Voltage
HotZone Linear Heaters	Propane or Natural Gas	70, 110 or 175 mBtu/hr	Chain	115V, 24V, Millivolt
HotZone Spot Heaters	Propane or Natural Gas	35, 70 or 110 mBtu/hr	Chain	115V, 24V, Millivolt
K-Series Heaters	Propane or Natural Gas	30 - 200 mBtu/hr; 2-stage available	Chain	115V, 24V, Millivolt

## SCHAEFER LOW-INTENSITY GAS INFRARED HEATERS

Schaefer’s low-intensity tube heaters deliver large amounts of heat to large areas from overhead heaters. The heaters are ideal for factories, warehouses, and arenas that are not equipped with forced air heating systems. The low-intensity heaters offer the same amount of comfort as with forced air heating but at a 6°F to 10°F lower temperature set point. They are easy to install and inexpensive to operate.

FOR HEATER DESIGN AND SELECTION ASSISTANCE, PLEASE CALL CUSTOMER CARE AT 1.800.779.3267.



GQG/GQU

## HotZone 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; adjustable heat control
- Tip switch



Z1-12CK





Model	Description	Fan Size
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CEILING MOUNTS		
TSB-200	Ceiling tilt swivel bracket 31" length	30" - 36"
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"

POLE AND POST MOUNTS • ADDITIONAL STYLES AVAILABLE		
VS12SPM	Standard pole mount for common round 2 to 3-1/2" poles	12" Tent Fan
CIRC36CMKIT3	Galvanized fan mount for basket fans with 3" collar for round columns	Up to 36"
CIRC36CMKIT4.5	Galvanized fan mount for basket fans with 4-1/2" collar for round columns	Up to 36"

WALL MOUNTS		
WMTA24-B	Wall mount, adjustable, 13" high x 16" deep	24" and smaller
WMTA24-SS	Wall mount, adjustable, stainless steel, 13" high x 16" deep	24" and smaller
WMTA30-B	Wall mount, adjustable, 16" high x 19" deep	30" and smaller
WMTA30-SS	Wall mount, adjustable, stainless steel, 16" high x 19" deep	30" and smaller
WMTA36-B	Wall mount, adjustable, 19" high x 22" deep	42" and smaller
VS2024OSC-115	Wall mount, oscillating, 115V, 60 Hz	30" and smaller
VS2024OSC-220	Wall mount, oscillating, 220V, 50 and 60 Hz	30" and smaller

FAN CART AND PEDESTALS*		
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 34" round base • Approx. 43-1/2" to 57-1/2" high	36" and smaller
PED24TPQR	Tripod black pedestal with quick release fan mount • Approx. 54" to 80" high	24" and smaller

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

**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:
    - i. Improper installation or installation not in accordance with installation instructions.
    - ii. Operating conditions that reasonably would be expected to damage the product and/or vary from PCT's operating instructions.
    - iii. Misuse, abuse, negligence, alteration, or accident.
    - iv. Damage incurred while transporting the product.
    - v. Improper operation of the product.
    - vi. 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 Burners	5 Years
Schaefer®	2 Years	Low Intensity Radiant Heater Tubes	5 Years
Master® (Heaters & Fans)	1 Year Limited	Washdown Duty Fans with VWD motors	3 Years
Remington® (Heaters & Fans)	1 Year Limited	Washdown Duty fans with EWD Motors	1 Year
Protemp® (Heaters & Fans)	1 Year Limited	Polyethylene Exhaust Fan Housings	25 Years
Heatstream™	1 Year Limited	Fiberglass Exhaust Fan Housings	15 Years
Sunstream™ (Halogen Heaters)	1 Year Limited	RV3000 Ridge Vent	10 Years
Tuff & Gusty™	90 Days	Shutter Motors	1 Year
Inflation Blowers (Standard)	1 Year	High Intensity Gas Radiant Heaters	1 Year
Inflation Blowers (Economy)	180 Days	Zubri™ Portable Patio Heaters	1 Year
Evaporative Cooling Pads	180 Days	HotZone® Electric Elements	120 Days
Quartz Radiant Heater Bulbs	120 Days		

\* 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.





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