

2013 / 2014 SOURCE BOOK



SERIOUS AIR FOR **SERIOUS PLACES**



www.schaeferfan.com • 1.800.779.3267





Schaefer Ventilation Equipment designs, manufactures and distributes powerful, reliable, cost effective and energy efficient ventilation and thermal comfort products to agricultural, industrial, commercial and government customers in the US and abroad via an extensive network of dealers and resellers. Unless otherwise noted, Schaefer's products are assembled in the US from parts procured in the US and abroad and are backed by industry leading customer service and solution design advice and by a 2-year limited warranty.

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Letter from the President

Welcome to Schaefer's 2013/2014 Source Book. I hope you can quickly and easily find the ventilation or thermal comfort products you need to solve your or your customer's ventilation or thermal comfort problem. If not, please feel free to call our Customer Care Center at 1.800.779.3267 to get your questions answered.

Although the 2013/2014 Source Book will look familiar to long-time Schaefer customers and partners, there are lots of changes from 2012/2013 including these new products:

- The Americ[®] line of confined space ventilators and accessories, which Schaefer added in April of 2012. (Page 10)
- Our new line of 54" panel fans and slant wall exhaust fans. (Pages 7 & 30)
- A lightweight, portable tripod fan stand with a quick release fan mount. (Page 6)
- A humidity controller to limit the amount of humidity added to the environment by our WayCool[®] and Pro-Kool[®] portable evaporative coolers and BigDog[®] 72" industrial circulation fan. (Pages 8, 12 & 30)
- 42" Versa-Kool yoke mounted fans. (Page 3)
- "Your Special Fan," which is a service that Schaefer provides where you can source essentially any fan of any size that you might need to solve a particularly challenging ventilation problem. (Page 17)



In addition to these new products, we have worked hard to provide detailed specification and performance data and application pictures you need to select the right fan.
















Accurate and reliable product specification and performance data is one of several attributes that differentiates Schaefer and Schaefer fans. We test all of our fans in-house using certified and calibrated test equipment and test our most in-demand fans at AMCA-certified Bess Lab at the University of Illinois. Although many energy rebate granting agencies will only accept results from Bess Lab, I want to assure you that Schaefer's in-house performance results are also accurate and reliable. In the 2013/2014 Source Book performance results obtained at Bess Lab are marked with **BESS LAB** and in-house performance results are marked with **SCHAEFER**.

Circulation fan performance measurement and comparison is a particularly thorny issue in 2013. At Schaefer, we test the performance of our circulation fans in accordance with ANSI/AMCA Standard 230-12. Performance tests yield a thrust measurement, measured in pounds force. ANSI/AMCA Standard 230-12 provides a formula for converting thrust to airflow rate (in cubic feet per minute) (Equation 9.6) which yields airflow rates approximately 29% lower than the formula in ANSI/AMCA Standard 230-99. In this Source Book, we are continuing to use the formula from ANSI/AMCA Standard 230-99 unless otherwise noted. Given the current confusion about how to calculate airflow rates, Schaefer recommends that customers use thrust measurements to compare the performance of different manufacturers' circulation fans **of the same diameter** and to use caution when comparing airflow rates.

Thank you for your interest in Schaefer's broad line of highly efficient, reliable and innovative thermal comfort solutions. All of us at Schaefer look forward to working with you.

Neil Crocker

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Deep Guard Circulation Fans



VK12

INDUSTRY STANDARD FOR GREENHOUSE VENTILATION



VK24



Deep Guard Circulation Fans

Reduce heat stress and improve air quality with Schaefer's uniquely designed circulation fans. Unrivaled in the market, these fans are engineered to produce greater air movement and superior cooling no matter the application. You don't hear them. You don't see them. You only feel them!

Features & Benefits

- Deep guard design provides unmatched performance at tremendously low noise levels.
- High quality motors and matching blades are paired to achieve maximum efficiency.
- Powder coated steel guards are highly durable and corrosion resistant for years of use.
- Depth of guards allows the fan to be extremely safe without sacrificing any airflow.
- Includes powder coated steel mounting bracket and power cord.
- Select from a wide variety of mounting options for flexible and easy installation.
- Optional variable speed controls offered.
- Mistig kits available for even greater cooling.



VK12TF-SPM-W

INDUSTRY STANDARD FOR TENTS & EVENTS



WH24-B

INDUSTRY STANDARD FOR SHOW CATTLE



8" - 24" Circulation Fans (Direct-Drive)

White Model	Black Model	Diameter	Var. Speed	Phase	HP	Volts	Amps	CFM	Thrust (lbf)	RPM	Weight	Tested
VK8	N/A	8"	N	1	1/100	115	0.6	448	.19	1550	8	SCHAEFER
Best Seller! VK12	VK12-B	12"	Y	1	1/10	115/230	1.3/.65	1470	.85	1725	18	BESS LAB
VK12-GA*	N/A	12"	Y	1	1/10	115/230	1.3/.65	1470	.85	1725	18	BESS LAB
VK12TF-SPM-W	N/A	12"	Y	1	1/10	115/230	1.3/.65	1513	.90	1725	18	BESS LAB
Best Seller! VK20	VK20-B	20"	Y	1	1/3	115/230	3.8/1.9	5473	4.26	1725	37	BESS LAB
VK20-3	VK20-B-3	20"	N	3	1/2	230/460	1.2/0.6	5593	4.55	1750	37	SCHAEFER
VK20-GA*	N/A	20"	Y	1	1/3	115/230	3.8/1.9	5473	4.26	1725	37	BESS LAB
N/A	WH20-B	20"	Y	1	1/3	115/230	3.8/1.9	5399	3.96	1725	37	BESS LAB
VK24	VK24-B	24"	Y	1	1/2	115/230	4.8/2.4	7863	6.10	1725	46	BESS LAB
VK24-3	VK24-B-3	24"	N	3	1/2	230/460	1.2/0.6	7756	5.65	1750	46	BESS LAB
Best Seller! N/A	WH24-B	24"	Y	1	1/2	115/230	4.8/2.4	7681	5.55	1725	46	BESS LAB

* VK12-GA & VK20-GA have hot dipped galvanized guards.

• Mount models without OSHA guards seven feet or higher.

Other motor and blade combinations available. Please call Customer Care at 1.800.779.3267.



Large Circulation Fans



VKC36



VS36VKWO-M-B

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 provides unmatched performance at tremendously quiet noise levels. Rated up to 11,700 CFM!
- High density polyethylene housing has superior corrosion and moisture resistance, wide temperature range capability and high stress crack, wear and abrasion resistance.
- High quality totally enclosed motors and blades achieve maximum performance & efficiency.
- Oscillating Wall Mount Fan oscillates 90 degrees for cooling larger areas.
- Chain Mount Fan is designed for easy chain mount installation.
- Mistig kits available for even greater cooling!

White Model	Black Model	Diameter	Phase	Mount	Cord	HP	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
VKC36	VKC36-B	36"	1	N	N	1/2	115/230	7.0/3.5	5.74	11,693	825	71	BESS LAB
VKC36-3	VKC36-B-3	36"	3	N	N	1/2	230/460	2.3/1.2	5.74	11,693	825	71	SCHAEFER
VS36VKWO-M	VS36VKWO-M-B	36"	1	Y	Y	1/2	115/230	7.0/3.5	5.74	11,693	825	130	BESS LAB

36" & 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. The industry standard VK36 is joined by the VK42, with 25% greater airflow, for 2014.



VK36

- Powerful ½ HP motor provides high airflow with a wide airflow pattern for excellent coverage.
- High density polyethylene housing has superior impact resistance, wide temperature range capability and high crack, wear and abrasion resistance.
- Wide spacing steel guards are zinc dipped and powder coated for superior corrosion resistance.
- Thermally protected TEAO motor with matching blade delivers high performance and long life.
- Wide spacing, deep housing design enhances performance without sacrificing safety. OSHA compliant guards also available.
- Fans ship fully assembled, complete with 19" T-shaped, powder coated steel, fan mount.

Model	Diameter	Phase	Mount	Cord	HP	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
VK36	36"	1	Y	N	1/2	115/230	7.0/3.5	5.83	11,399	825	70	BESS LAB
VK36-3	36"	3	Y	N	1/2	230/460	2.3/1.2	5.82	11,384	825	70	BESS LAB
VK42	42"	1	Y	N	1/2	115/230	7.0/3.5	7.2	14,866	825	75	BESS LAB
VK42-3	42"	3	Y	N	1/2	230/460	2.3/1.2	6.3	13,970	825	75	BESS LAB

Best Seller!

NEW!
Coming
Fall 2013

36" Direct Flow 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.



36DF

- Powerful ½ HP motor provides high airflow with a narrow airflow pattern for very high air speeds and effective cooling.
- Thermally protected TEAO motor with matching blade delivers high performance and long life.
- Safety spaced steel guards are zinc dipped and powder coated for superior corrosion resistance.
- Guards open easily for easy cleaning and/or blade replacement.
- Fan ships fully assembled, complete with 19" T-shaped, powder coated steel, fan mount.
- Available unassembled also, for high packing density and low shipping cost for international and other high volume orders.

Model	Diameter	Phase	Mount	Cord	HP	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
36DF	36"	1	Y	N	1/2	115/230	7.0/3.5	7.90	13,041	825	70	SCHAEFER
36DF-3	36"	3	Y	N	1/2	230/460	2.3/1.2	8.03	12,128	825	70	SCHAEFER

Best Seller!

Mount models without OSHA guards seven feet or higher.



OSHA Compliant Circulation Fans



24CFO

OSHA Compliant Circulation Fans

At Schaefer, safety and performance go hand-in-hand. Nothing speaks to that more than our OSHA compliant circulation fans, which meet all OSHA safety regulation while delivering maximum airflow. These 2-speed fans have the versatility to be mounted on a ceiling, wall, pedestal or cart, which makes them the ideal cooling solution for any commercial, industrial or agricultural facility.

Features & Benefits

- Blade and direct drive motor are strategically matched to provide the highest achievable levels of airflow. Rated up to 12,000+ CFM!
- High quality motors and powder coated guards provide the durability a fan needs for years of use.
- Designed to be extremely energy efficient for additional cost savings! Draws as little as 1.6 amps!
- Thermally protected, heavy-duty, 2-speed motors are maintenance free with a long life.
- Can easily be attached to a cart or pedestal for portability or mounted to a wall or ceiling.



White Model	Black Model	Diameter	Speeds	HP	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
20CFO	20CFO-B	20"	2	1/4	115	2.9/1.6	2.27/1.22	3896/2857	1100/800	30	SCHAEFER
24CFO	24CFO-B	24"	2	1/4	115	2.9/1.6	2.85/1.51	5281/3845	1100/800	34	SCHAEFER
30CFO	30CFO-B	30"	2	1/2	115	5.2/2.8	5.89/3.24	9424/6996	1075/800	53	SCHAEFER
36CFO	36CFO-B	36"	2	1/2	115	5.2/2.8	6.82/3.56	12,121/8753	1075/800	59	SCHAEFER

Best Seller!



24PF

OSHA Compliant Pedestal Fans and Fan Carts

Are you tired of replacing your imported fans every few months? Use Schaefer portable fans in environments requiring quiet, powerful, efficient and long lasting portable air movement. Add mist for additional cooling!

Use these rugged portable fans in warehouses, work areas, loading docks, greenhouses, farms, and other locations where quality matters.



24FC

Fan Head White / Black	Fan with Square Pedestal White / Black	Fan with Round Pedestal White / Black	Fan with Tripod Pedestal Black Only	Fan and Cart White / Black
20CFO / 20CFO-B	20PF / 20PF-B	20PFR / 20PFR-B	20TPQR-B	20FC / 20FC-B
24CFO / 24CFO-B	24PF / 24PF-B	24PFR / 24PFR-B	24TPQR-B	24FC / 24FC-B
30CFO / 30CFO-B	30PF / 30PF-B	30PFR / 30PFR-B	N/A	30FC / 30FC-B
36CFO / 36CFO-B	36PF / 36PF-B	N/A	N/A	N/A

Best Seller!

• Add an optional wheel kit to square pedestal base by ordering FP-Wheelkit.

Coming Soon!



IB24

Coming Soon: "Import Beater" Circulation Fans

In the fall of 2013, Schaefer will be introducing a family of high quality, but lower cost, circulation fans for customers who want the durability and reliability of Schaefer's made-in-America fans but want to pay a lower up-front price. These 12", 20", 24", 30" and 36" fans have slightly lighter guards and motors and produce 5% to 10% less air movement than the top-of-the-line Schaefer circulation fans but at about 25% lower cost. These future best sellers will be available in limited quantities in September 2013 and in production quantities in 2014.



Washdown Duty Circulation Fans



24CF0-SWDS



30CF0-SWDS

New & improved 30" 2-wing blades reduces noise level to 88dB and increases performance to greater 10,000+ CFM!

Washdown Duty Circulation Fans

Schaefer's OSHA Compliant Washdown Duty Circulation Fans are the perfect solution for effectively and efficiently moving air in work areas where strict hygiene requirements exist, including food and beverage processing facilities, kitchens, hospitals and other clean, corrosive or humid environments.

These fans are designed to withstand pressure washing in the harshest of conditions without affecting the performance or functionality of the fan. Increase productivity and improve work area safety with Schaefer Washdown Duty Circulation Fans today!



Features & Benefits

- 3 motor types available to ensure performance and functionality in any application:

EWD - Epoxy • USDA® approved, non-toxic, white, epoxy coated washdown duty. (1-year warranty.)

SWD* - Stainless • All stainless steel for extremely corrosive environments. (2-year warranty.)

VWD - Aluminum • Extruded anodized aluminum for high temperature environments. (3-year warranty.)

- Guards are OSHA compliant to ensure safety and are constructed with electro-polished 304 stainless steel in order to withstand harsh environments and prevent corrosion.
- Blades offered in both stainless steel or polypropylene depending upon the application.
- Blades and motors are carefully matched to maximize performance and efficiency while improving noise levels.
- Made in the USA to ensure durability, longevity and maintained performance during the life of the fan.
- Robust, stainless steel wall and ceiling mounting options available. (UWMT-SS & VS30FMT-SS. See page 6)



Model	Diameter	Motor	Blade	HP	Phase	Volts	Amps	Thrust (lbf)	CFM	RPM	Weight	Tested
20CF0-EWDP	20"	EWD	Polypropylene	1/3	1	115/230	4.9/2.5	3.67	4922	1700	35	SCHAEFER
20CF0-EWDP-3	20"	EWD	Polypropylene	1/3	3	208-230/460	1.9-1.8/0.9	3.84	5036	1725	35	SCHAEFER
20CF0-VWDP	20"	VWD	Polypropylene	1/3	1	120	3.4	3.98	5129	1590	35	SCHAEFER
20CF0-VWDP-3	20"	VWD	Polypropylene	1/3	3	240/420	1.7/1.0	4.34	5365	1623	35	SCHAEFER

24CF0-EWDS	24"	EWD	Stainless Steel	1/2	1	115/230	7.4/3.7	6.23	7789	1725	47	SCHAEFER
24CF0-EWDS-3	24"	EWD	Stainless Steel	1/2	3	230/460	2.0/1.0	5.72	7410	1725	47	SCHAEFER
24CF0-EWDP	24"	EWD	Polypropylene	1/2	1	115/230	7.4/3.7	5.65	7346	1725	44	SCHAEFER
24CF0-EWDP-3	24"	EWD	Polypropylene	1/2	3	230/460	2.0/1.0	5.82	7451	1725	44	SCHAEFER
24CF0-SWDP	24"	SWD	Polypropylene	1/2	1	115/230	8.2/4.1	5.62	7307	1725	52	SCHAEFER
24CF0-SWDP-3	24"	SWD	Polypropylene	1/2	3	208-230/460	1.5-1.6/0.8	5.80	7446	1740	52	SCHAEFER
Best Seller! 24CF0-SWDS	24"	SWD	Stainless Steel	1/2	1	115/230	8.2/4.1	4.94	6855	1725	52	BESS LAB
24CF0-SWDS-3	24"	SWD	Stainless Steel	1/2	3	208-230/460	1.5-1.6/0.8	5.01	6913	1740	52	SCHAEFER
24CF0-VWDP	24"	VWD	Polypropylene	1/2	1	120	6.7	6.55	7881	1060	47	SCHAEFER
24CF0-VWDP-3	24"	VWD	Polypropylene	1/2	3	240/420	2.4/1.4	7.29	8342	1020	47	SCHAEFER

30CF0-EWDS	30"	EWD	Stainless Steel	1/2	1	115/230	7.4/3.7	7.82	10,033	1725	60	BESS LAB
30CF0-EWDS-3	30"	EWD	Stainless Steel	1/2	3	230/460	2.0/1.0	6.90	10,000	1725	60	BESS LAB
30CF0-SWDS	30"	SWD	Stainless Steel	1/2	1	115/230	8.2/4.1	7.18	10,643	1725	60	BESS LAB
30CF0-SWDS-3	30"	SWD	Stainless Steel	1/2	3	208-230/460	1.5-1.6/0.8	6.89	10,438	1740	60	BESS LAB
30CF0-VWDP	30"	VWD	Polypropylene	1/2	1	120	6.7	6.92	10,143	1060	60	SCHAEFER
30CF0-VWDP-3	30"	VWD	Polypropylene	1/2	3	240/420	2.4/1.4	9.00	11,567	1020	60	SCHAEFER

*Motor manufactured in China by a major U.S. motor manufacturer.

Fan Mounts



Model	Description	Fan Size
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Ceiling Mounts		
VS12FMT	Ceiling Mount 5" Length	12"
VS20FMT	Ceiling Mount 8" Length	20"
VS24FMT	Ceiling Mount 10" Length	24" - 30"
VSCK-MT	Ceiling Mount 10" Length for Cattle Kooler	30" & 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		
TSB-100	Tilt Swivel Bracket 24" Length	12" - 24"
TSB-200	Tilt Swivel Bracket 31" Length	30" - 36"
VS2024WMT	Wall Mount 12-1/2" High x 18-1/2" Deep	24" & Smaller
VS36WMT	Wall Mount 18" High x 26-1/4" Deep	36" & Smaller
UWMT	Universal Wall Mount 14-1/4" High X 23-1/4" Deep	36" & Smaller
UWMT-SS	Universal Wall Mount - Stainless Steel 14-1/4" High X 23-1/4" Deep	36" & Smaller
VS2024OSC	Oscillator Wall Mount 5-1/4" Wide x 16" Length	30" & Smaller

Fan Cart and Pedestals*		
VS2430FC	Fan Cart 33" High x 29-1/4" Deep	20" - 30"
VS2430FP	Floor Pedestal 32" Square Base • Approx. 42" - 72" High	20" - 36"
VS2430FPR-E	Economy Floor Pedestal 27" Round Base • Approx. 43-1/2" - 57-1/2" High	20" - 30"
NEW! PED24TPQR	Tripod Pedestal with Quick Release Fan Mount • Approx. 54" - 80" High	24" & Smaller

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

Can't find what you are looking for?

Please call Customer Care at 1.800.779.3267 and we will be happy to assist you!

Panel Fans



543GP1

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.

Features & Benefits

- Industry leading airflow and efficiency (airflows up to 40,000 cfm; efficiencies up to 40 cfm/watt).
- Built with heavy gauge galvanized and powder coated steel components and thermally protected TEAO motors for long life.
- Fans ship fully assembled complete with belt tensioner.
- Optional post and column mounts available.

Galvanized Panel Fan Options

Sizes: 24", 36", 48", 52", 54"

Configurations: Direct-Drive (24" & 36"); Belt-Drive (36", 48", 52" & 54")

Blade Type: Galvanized Steel, Stainless Steel (52" only) or Cast Aluminum (52" only)

Blade Style: 3-Wing or 5-Wing

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

Motor Phases: 1-Phase or 3-Phase

Schaefer offers a wide variety of galvanized panel fans to meet your specific application needs. Performance data for all models can be seen on page 34 and at www.schaeferfan.com



Best Sellers

Model	Diameter	HP	Phase	Volts	Amps	CFM	CFM/Watt*	Thrust (lbf)	Thrust Eff. (lbf/kW)	Tested
523GP1	52"	1	1	115/230	8.4/4.2	33,830	38.0	23.9	26.8	BESS LAB
523GP1-3	52"	1	3	208-230/460	3.3-3.4/1.7	33,292	40.7	23.5	28.9	BESS LAB
543GP112	54"	1.5	1	208-230	6.8/6.4	40,298	29.2	31	22.46	BESS LAB
543GP112-3	54"	1.5	3	208-230/460	3.3-3.4/1.7	41,031	35.34	33.25	28.64	SCHAEFER



523P1

52" Polymer Panel Fans

Schaefer also offers sophisticated and impact resistant 52" Polymer Panel Fans. These fans are ideal for use in agricultural facilities with a higher susceptibility to corrosion and for "show dairies" that take extra pride in aesthetics and demand the highest of quality.

Features & Benefits (in addition to galvanized panel fans features and benefits)

- Housing is made of white, high performance, thermoplastic polyolefin
- Excellent UV, impact, chemical and corrosion resistance
- 52" only. Belt-drive only. 1 and 1-1/2 HP only. Galvanized (3- or 5-wing), stainless (3- or 6-wing) and cast aluminum (3-wing) blades available.



Performance data for all models can be seen on page 34 and at www.schaeferfan.com

Best Sellers

Model	Diameter	HP	Phase	Volts	Amps	CFM	CFM/Watt*	Thrust (lbf)	Thrust Eff. (lbf/kW)	Tested
523P1	52"	1	1	115/230	8.6/4.3	33,584	34.6	24.3	25.1	BESS LAB
523P1-3	52"	1	3	208-230/460	3.3-3.4/1.7	31,468	40.1	21.3	27.14	SCHAEFER

Panel Fan Mounting Options

Fan Mounts	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 & Hardware	36" - 54"

Mount panel fans seven feet or higher.



BD72-208460-3

BIGDOG® 72" Industrial Circulation Fan

Do you have a big space that requires a lot of air circulation? Look no further than the BIGDOG®. Unlike the typical ceiling fan that moves a lot of air at low speeds resulting in minimal cooling, the BIGDOG moves massive amounts of air at high speed for extremely efficient and effective cooling year round!

The ultimate multi-tasker, BIGDOG will provide 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.

Features & Benefits

- Engineered to provide 60,000+ CFM of air movement and personnel cooling over a 200 ft. x 35 ft. area.
- Cools in the summer resulting in increased productivity.
- De-stratifies air in the winter resulting in lower heating costs and improved comfort.
- One BIGDOG fan has the capability to replace many smaller circulation fans.
- Can be used with variable speed drive for smooth speed adjustment requiring as little as 300 Watts of power, leading to best in class energy efficiency of 40 CFM/Watt.
- Extremely quiet operations at even the highest speeds, allowing for easy conversation and more comfortable working conditions.
- Durable fiberglass air deflectors are adjustable for desired airflow.
- Conveniently fits in corridors and between sprinklers and can be hung with specially designed cable, pole and wall mounts to deliver maximum airflow where desired.



Add Misting for Additional Cooling!

Mist Control System

Control the misting accessory of your BIGDOG by installing a Mist Control System. This MCS senses ambient humidity and turns off the BIGDOG low pressure misting system when humidity rises, ensuring floors don't get wet and the air doesn't get oversaturated.

To see BIGDOG in action, please visit the BIGDOG section at www.schaeferfan.com



Best Seller!

BIGDOG 72" Circulation Fan

Model	Diameter	Phase	HP	Volts	Amps (Max)	RPM	Thrust (lbf)	CFM
BD72-208460-3	72"	3	3	208/230/460	10.5	300/50	48.54	64,500/10,000
BD72-230-1	72"	1	3	230	9.5	300/50	48.54	64,500/10,000

Variable Speed Controls

Model	Description
BDVFD240N1	VFD (Variable Frequency Drive) 240 Volt, 1- & 3-Phase, NEMA 1
BDVFD400N1	VFD 400/480 Volt, 3-Phase, NEMA 1
BDVFD240N4	VFD 240 Volt, 1- & 3-Phase, NEMA 4
BDVFD400N4	VFD 400/480 Volt, 3-Phase, NEMA 4
BDVFD240-1N4FI	VFD 208/240 Volt, 1-Phase, Filtered Input, NEMA 4X
BDVFD400-3N4Fi	VFD 400/480 Volt, 3-Phase, Filtered Input, NEMA 4X
BDVFD240-1N4FD	VFD 208/240 Volt, 1-Phase, Filtered Input/Disconnect, NEMA 4X
BDVFD400-1N4FD	VFD 400/480 Volt, 1-Phase, Filtered Input/Disconnect, NEMA 4X

Mounting Options

Model	Description
BDCABLEKIT15	Cable Suspension Kit
BDMNTPOLE30DEG	Pole Mount Kit 30 Degree Tilt
BDMNTPOLE90DEG	Pole Mount Kit - Horizontal
BDMNTWALL30DEG	Wall/Column Mount Kit 30 Degree Tilt
BDMNTWALL90DEG	Wall/Column Mount Kit - Horizontal

Misting Options

BDMISTKIT	Low Pressure Mist System
BD-LPMC	Low Pressure Mist Control System

Mobile Air Circulators



VS36VKM



VS36VKT-B

Versa-Kool® Portable Drum Fans

Schaefer's Portable Drum Fans feature an extremely tough and rugged polyethylene housing that is designed to withstand the elements and endure many years of hard use. Engineered to move large amounts of air, these fans are the perfect solution for cooling people and livestock in any industrial, commercial or agricultural setting.

Features & Benefits

- High Density Polyethylene Housing has superior corrosion and moisture resistance, wide temperature range capability and high stress crack, wear and abrasion resistance.
- Market leading performance and air throw. Rated up to 18,000+ CFM!
- Incredibly quiet for its size and performance levels.
- Top of the line safety features include deep guard protection and optional OSHA compliant guards, UL approved power cord.
- Ergonomic handle and integrated 6" or 8" wheels for easy portability.
- 24", 36" and 42" sizes.



VS36VKO-M

Best Seller!

White Model	Black Model	Diameter	Speeds	HP	Volts	Amps	Drive	Thrust (lbf)	CFM	RPM	Weight	Tested
Versa-Kool Drum Fan and Tilttable Fans												
VS24VKM-OSHA	N/A	24"	1	1/2	115	5.2	Direct	3.18	5565	1075	48	SCHAEFER
VS24VKM-2-OSHA	N/A	24"	2	1/2	115	5.2	Direct	3.18	5565	1075	48	SCHAEFER
VS36VKM	VS36VKM-B	36"	1	1/2	115/230	7.0/3.5	Direct	5.74	11,693	825	85	BESS LAB
VS36VKM-OSHA	VS36VKM-B-OSHA	36"	1	1/2	115/230	7.0/3.5	Direct	5.02	10,383	825	85	SCHAEFER
VS36VKM-2	N/A	36"	2	1/2	115	6.0/3.0	Belt	3.62	8977/5901	1725/1140	105	SCHAEFER
VS42VKM-2-OSHA	N/A	42"	2	3/4	115	9.3/5.3	Belt	N/A	14,233/9481	1725/1140	130	SCHAEFER
Versa-Kool Tilttable Fans												
VS36VKT	VS36VKT-B	36"	1	1/2	115/230	7.0/3.5	Direct	5.74	11,693	825	107	BESS LAB
VS36VKT-2	N/A	36"	2	1/2	115	6.0/3.0	Belt	3.62	8977/5901	1725/1140	127	SCHAEFER
Versa-Kool Mobile Oscillating Fans												
VS36VKO-M	VS36VKO-B-M	36"	1	1/2	115/230	7.0/3.5	Direct	5.74	11,693	825	178	BESS LAB
VS36VKO-2-M	N/A	36"	2	1/2	115	6.0/3.0	Belt	3.62	8977/5901	1725/1140	198	SCHAEFER



MOB4851-2

48" Heavy-Duty Mobile Box Fan

Schaefer's 48" Mobile Box Fan is the ideal solution for safe, portable cooling in any industrial or commercial setting. 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.

Features & Benefits

- Industrial grade, galvanized steel housing can withstand the bumps and bruises of the work environment.
- Safe solution that provides maximum protection for workers. Front and back OSHA compliant guards and UL approved 9 foot cord.
- Can be used as a circulation fan or a portable inlet or exhaust fan.



Model	Diameter	Speeds	HP	Volts	Amps	CFM	RPM	Weight	Tested
MOB4851-2	48"	2	1	115	12.3/6.4	14,100/9710	1725/1140	270	SCHAEFER



Americ® Confined Space Ventilators



VAF3000A/B



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

Often imitated but never duplicated, Schaefer's Americ® brand 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, comfortable and controlled environment in the most extreme areas.



VAF8000A/B



VAF1500A/B

Features & 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. Many have lasted 10+ years!
- Premium quality motors are rated for 100,000+ hours of heavy duty, continuous use, which results in an unmatched ROI in the market.
- Safety tested to UL, CSA and CE certifications, exceeding industry standards.
- Provides positive and negative airflow (blows and extracts).
- Lightweight for easy portability.
- Stackable to save storage work area space.
- Extensive line of accessories for ease of use and storage.



VAF3000P



Model	Diameter	Volts AC	Phase	Frequency	HP	Current Amps	RPM	Max S.P.	Free Air CFM**	Weight
8" Utility Ventilator 18.5"H x 18.5"L x 12.5"W										
VAF1500A*	8"	115	1	60Hz	1/4	2.5	3200	1.5"	877	18
VAF1500B^	8"	220	1	50Hz	1/4	1.3	3200/2260	1.5"	749	18
12" Industrial Ventilator 21"H x 17"L x 14"W										
VAF3000A*	12"	115/100	1	60/50Hz	1	8.0/5.7	3300/2800	3"	2796	32.5
VAF3000B*^	12"	220/240	1	50Hz	1	4.2	2850	2.5"	2492	32.5
20" High Capacity Ventilator 27.5"H x 27.5"L x 25.5"W										
VAF8000A-3*^	20.5"	220	3	60/50Hz	5	13/11	3495/2950	6.1"	9968	119
VAF8000B-3	20.5"	440	3	60/50Hz	5	6.5/5.5	3495/2950	6.1"	9968	119

Best Seller!

Model	Diameter	Air Consumption	Inlet Pressure (Max)	Noise Level	HP	RPM	Free Air CFM	Weight
12" Pneumatic Ventilator 21"H x 17"L x 14"W - Intrinsically Safe								
VAF3000P*^	12"	38 CFM	100 psi	86 dB	1.5	3000	2063	28

* UL & CUL Listed. > UL and C-UL Listed for use in Class I, Division I, Groups A, B, C and D Hazardous Locations. ^ CE Listed. < Available in single-phase.
 **Tested in accordance with ANSI/AMCA 230-99 as circulation fans.

Confined Space Ventilator Accessories



Duct with Quick Connect
 Available in 8", 12" & 20" diameters, 15' or 25' lengths. Our ducts are made of flexible, light duty vinyl, woven polyester. Easily retractable and designed to handle large volumes of air at relatively low pressure. In addition, they can be flame-retardant and easily connect to fans for positive and/or negative airflow.



Bag-O-Duct
 Available in 25' length, this duct hose, made of flexible light-duty vinyl, woven polyester is designed to collapse into its own attached carrying bag.



Duct Coupler
 This metal circular ring will allow you to connect multiple sections of duct.



Duct Carriers
 These lightweight polyethylene carriers are ergonomically designed to hold up to 25' of flexible ducting. The totally enclosed design helps reduce exposure to the elements, increasing the life expectancy of the ducting. 8" & 12" duct sizes only.

Best Seller!



Duct Storage Racks
 Our durable metal rack is perfect for safe duct storage. It can store up to (2) 15' duct lengths or (1) 25' duct. The retention bar is engineered to securely hold compressed duct while allowing for easy removal. In addition, the centrally located handle is designed for maximize portability.

For a complete listing of accessories, visit the Americ confined space ventilators section at www.schaeferfan.com



Economy Circulation Fans

Schaefer's imported economy fans are Tuff & Gusty™. These UL507 outdoor certified circulation fans, heavy-duty drum fans, confined space ventilators and carpet dryers are loaded with features but priced very aggressively for your indoor and outdoor cooling and ventilation needs. We recommend all outdoor fans be GFCI protected.



Features & Benefits

- Quiet operation, high efficiency and output.
- OSHA compliant safety guards.
- Outdoor fans are UL507 certified for outdoor use.
- Powder coated white, black or gray.
- Wall/pedestal/ceiling fans have pull chain speed adjustments.
- Fully adjustable wall or ceiling mount for 18" fans.
- Fully adjustable wall or pedestal mount for 24" and 30" fans.
- Drum fans may be tilted 360 degrees. Include cord wrap and carry handle.
- Totally enclosed, maintenance free, high efficiency motors with completely sealed bearings and built-in thermal overload protection.
- Confined space ventilators and carpet dryer are for light duty applications, have reliable performance at a cost-effective price. Not UL listed.
- Imported.

Wall Model	Pedestal Model	Diameter	Speeds	Volts	Amps	CFM	Color
Outdoor Rated Wall & Pedestal Mounted Fans							
TG18-3WW	N/A	18"	3	115	1.47/1.33/1.01	3000/2600/2000	White
TG18-3WB	N/A	18"	3	115	1.1/.69/.60	3000/2600/2000	Black
TG24-3WW	TG24-3PW	24"	3	115	1.9/1.7/1.4	4800/4400/3700	White
TG24-3WB	TG24-3PB	24"	3	115	1.9/1.7/1.4	4800/4400/3700	Black
TG24-3WOSCW	TG24-3POSCW	24" Oscillating	3	115	1.9/1.7/1.4	4800/4400/3700	White
TG24-3WOSCB	TG24-3POSCB	24" Oscillating	3	115	1.9/1.7/1.4	4800/4400/3700	Black
TG30-3WW	TG30-3PW	30"	3	115	2.4/1.5/1.4	6500/6200/5700	White
TG30-3WB	TG30-3PB	30"	3	115	2.4/1.5/1.4	6500/6200/5700	Black
TG30-3WOSCW	TG30-3POSCW	30" Oscillating	3	115	2.4/1.5/1.4	6500/6200/5700	White
TG30-3WOSCB	TG30-3POSCB	30" Oscillating	3	115	2.4/1.5/1.4	6500/6200/5700	Black

Best Sellers!

Model	Diameter	Speeds	Volts	Amps	CFM	Color
Drum Fans						
TG24-2DG	24"	2	115	1.76/1.6	7800/5800	Gray
TG42-1DG	42"	1	115	5.8	18,250	Gray

Floor and Carpet Dryer

Best Seller!

TG10-3CDO	10"	3	115	5.0	1050/1000/900	Orange
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Confined Space Ventilators

TG9-1CSVY	9"	1	115	1.83	1000	Yellow
TG13-1CSVY	13"	1	115	5	2600	Yellow

Portable Evaporative Coolers

Best Seller!

WAYCOOLE Portable Evaporative Cooler

Schaefer's 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. Unlike other portable evaporative coolers in the market, 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 out!



WC-1HPMFAOSC

WC-1/3HPA



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



WC-1HPMFA360

Features & Benefits

- Cools an area up to 4,000 square feet!
- Approximately 50% less expensive and 75% lower energy consumption of the equivalent capacity portable air conditioner.
- Standard automatic shut-off prevents pump damage in case of low water levels, further extending the life of the unit.
- All models have large built in water reservoir for standalone use and can be connected to a garden hose for continuous use.
- Specially treated cellulose evaporative pads for extensive pad life.
- 1 HP dimensions: Base 33" x 33" x 52" tall; 24 gallon reservoir.
- 1/3 HP dimensions: Base 25" x 25" x 42" tall; 14 gallon reservoir.

Options and Accessories Available

- Rugged, all terrain pneumatic wheels.
- Replacement evaporative cooling pads.
- Water conditioner and cleaner products for extended pad life and functionality.
- Inlet air filters for 1 HP models provide easy and effective filtration.
- Rugged aluminum inlet grates for increased strength and durability.
- 50 gallon water reservoir allows for 3x longer use without a garden hose.

See page 13 for all additional accessories and replacement pads.

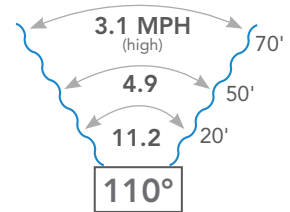


NEW! Humidity Controller Model: THC-1

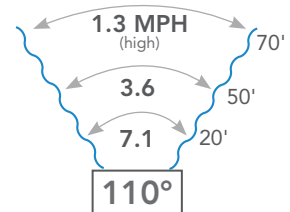
Save on energy costs and avoid saturating the air! Easily attaches to the wall or directly to the WayCool or Pro-Kool to manage humidity levels with the turn of a dial.

Approximate Air Velocity

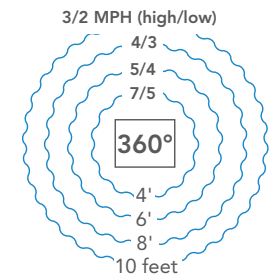
WC-1HP



WC-1/3HP



WC-1HPMFA360



White Model	Gray Model	Output	Speeds	HP	Volts	Minimum Circuit Size (Amps)	CFM Hi-Lo	Velocity Outlet (mph)	Cooling** (Tons)	Cooling*** (Deg. F)
WC-1/3HPA	N/A	Fixed Direction	2	1/3	115	10	1560/1320	21/18	1.5	14°
WC-1/3HPAOSC	N/A	Oscillating	2	1/3	115	10	1560/1320	21/18	1.5	14°
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°
WC-1HPMFA360	N/A	360 Degree	2	1	115	15	2460/1660	26/18	4.0	20°

** Cooling in tons on Hi@90°F and 40% RH. *** Temperature drop (inlet temp-outlet temp) @ 90°F and 20% RH.
• 220V models available.



Best Sellers!



Portable Evaporative Coolers



PROK142-2HV

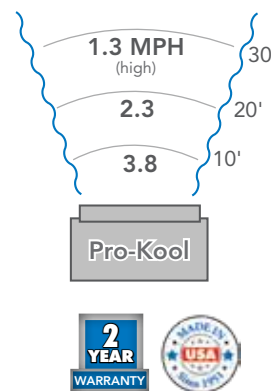


Portable Evaporative Cooler

Schaefer's Pro-Kool® 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. Pro-Kool has a rugged design that makes it the industry standard for durability, and the perfect solution for cooling workers and work areas in any industrial facility when standard air conditioning is ineffective or too costly.



Pro-Kool Evaporative Coolers can reduce air temperature by as much as 30° F!



Features & Benefits

- Best in class durability from top to bottom allows years of hard use!
- Integrated cart with ergonomically designed, large handle make for easy maneuverability.
- Industry leader for airflow. 11,200 CFM on high, with cooling capacity of 3,250+ square feet!
- Approximately 75% less expensive and 90% lower energy consumption than the equivalent capacity portable air conditioner.
- Standard automatic shut-off prevents pump damage in case of low water levels, further extending the life of the unit.
- Large, 38 gallon, built in water reservoir for standalone use and can be connected to a garden hose for continuous use.
- Specially treated, dual water drip over, thick cellulose evaporative pads for increased performance and extended pad life.
- Designed to fit on lift gates for ease of transport.
- Control humidity with the new Humidity Controller!
- Base Dimensions: 54" x 34.5" x 74"; 38 gallon reservoir.

Best Seller!

Model	Description	HP	Volts	Minimum Circuit Size (Amps)	CFM Hi-Lo	Velocity @ Outlet (mph)	Cooling** (Tons)	Cooling*** (Deg. F)
PROK142-2HV	42" High Velocity Fan	1	115	15	11,200/7400	13/8	13.5	15

** Cooling in tons on Hi@90°F and 40% RH. *** Temperature drop (inlet temp-outlet temp) @ 90°F and 20% RH. • Available in 220V, order PROK142-220V-60

Portable Evaporative Cooler 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 & Grates

WC-1/3FPAD	Full Pad for WC-1/3HP (4 Full Pads Required for 1/3 HP Unit)	
WC-1/3HPAD	Half Pad for WC-1/3HP (4 Half Pads Required for 1/3 HP Unit)	
WC-1/3HPPADSET	Complete Replacement Pad Set for WC-1/3HP (4 Full Pads and 4 Half Pads)	
WC-1HPPAD	Full Pad for WC-1HP (8 Full Pads Required for 1 HP Unit)	
WC-1HPPADSET	Complete Replacement Pad Set for WC-1HP (8 Pads)	
WC-1HPFIL	WayCool Inlet Air Filter. Single Filter - 22.63" x 23.63" x 0.3"	
WC-1HPFILSET	WayCool Inlet Air Filter. Set of Four Filters - 22.63" x 23.63" x 0.3"	
WC-GRATESM-ASET	WayCool Aluminum Grate Inlet Set (4) for WC-1/3HP	
WC-GRATESLG-ASET	WayCool Aluminum Grate Inlet Set (4) for WC-1HP	

Pro-Kool Replacement Pads • 28" Pro-Kool Pads Available

42PKPAD	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
PROK42-PADSET	Pad Set for 42" Old Style Pro-Kool (4 Pads 8" x 12" x 48")
PROK42R-PADSET	Pad Set for 42" Pro-Kool (4 Pads 8" x 12" x 54")

Evaporative Cooler Conditioner, Cleaner and Accessories



RESERVOIR-50 Versa-Filler



THC-1 Humidity Controller



WC-CTAB: Water Conditioner

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



WC-CLNR: Water 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.

High Pressure Misting Fans



24", 30" & 36" Portable High Pressure Mist Fan System

The VersaFog® family of powerful, self-contained, high pressure mist cooling systems uses the natural phenomenon of evaporative cooling, to economically reduce air temperature by 30°F up to 65 feet from the unit. This high pressure system atomizes water droplets, to increase the speed of evaporation and minimize wetness compared to lower pressure mist systems.

Best in Class!



VF36



VF36W

Features & Benefits

- Base unit includes misting fan and ¾ HP, 1,000 PSI, Industrial CAT pump with automatic low-pressure shut-off.
- Additional satellite fans can be connected to base unit with provided quick connect lines. (1 additional 36" fan; 2 additional 24" or 30" fans).
- 24" & 30" models are UL507 rated for outdoor use and all models have OSHA compliant guard spacing.
- Includes 25 foot cord with integrated 20 amp GFCI plug.
- Garden hose with at least 15 PSI water pressure is required.
- 36" model is constructed with a rugged polyethylene housing.
- Optional, rugged polyethylene shrouds available for 24" & 30" models. (VF24-SHROUDKIT & VF30-SHROUDKIT)
- Some assembly required.



Shroud Kit



VF24-SAT



VF30



White Fan Head Model	Black Fan Head Model	Diameter	Fan HP	Fan Volts	Total Amps	Speeds	CFM Hi/Med/Low	Cooling (Tons)	Cooling Area (sq. ft.)	Weight
VersaFog Portable Mist Fan System and Satellite Fans										
VF24*	VF24-B*	24"	1/4	115	11.45	3	4800/4400/3700	7	1400	155
VF30*	VF30-B*	30"	1/4	115	11.45	3	6500/6200/5700	9	1800	164
VF36	VF36-B	36"	1/2	115/230	16.4	1	11,000	10	3000	315
VF24-SAT*	VF24-SAT-B*	24"	1/4	115	2.65	3	4800/4400/3700	7	1400	82
VF30-SAT*	VF30-SAT-B*	30"	1/4	115	2.65	3	6500/6200/5700	9	1800	91
VF36-SAT	VF36-SAT-B	36"	1/2	115/230	7.6	1	11,000	10	3000	180
VersaFog Wall Mounted Mist Fan System and Satellite Fans										
VF36W	VF36W-B	36"	1/2	115/230	16.4	1	11,000	10	3000	230
VF36W-SAT	VF36W-SAT-B	36"	1/2	115/230	7.6	1	11,000	10	3000	130

Best Seller!

*Imported Fan Heads.

Can't find what you are looking for?

Please call Customer Care at 1.800.779.3267 and we will be happy to assist you!



Low Pressure Misting Fans



Portable Low Pressure Misting Fan

Fill it up, plug it in, turn it on and chill!™

Keep cool when temperatures rise with Schaefer's VersaMist Low Pressure Misting Fans. Convenient and user friendly, VersaMist is ergonomically designed for portability. VersaMist is the perfect solution for cooling work areas, first responders, patios, athletes and more, when electricity is limited and running water is not readily available.



PVM18C



PVM18-B

Features & Benefits

- Low pressure mist technology combines fine mist and high speed air movement for highly effective "person" cooling indoors and outdoors.
- Rapid mist evaporation produces 16,000 BTU/hour (1.4 Tons) of cooling, which cools the air up to 30° F.
- Integrated handle and wheels, along with a lightweight design, provide easy portability for versatile usage.
- Pump and fan assembly are easily separable from the reservoir for quick and effortless set up, cleaning and storage.
- 10 or 14 gallon built in water reservoir provides up to 7 hours of uninterrupted use.
- 3-Speed 18" fan is UL 507 rated for outdoor use, ensuring the highest levels of safety.
- Built with integral tip switch that turns power off if unit is knocked over.
- 25' outdoor rated power cord has an integrated GFCI plug that connects to a standard wall outlet.
- Fan can be angled up or down for targeted cooling.



White Fan Head Model	Black Fan Head Model	Description	Volts	Watts	Amps	Tank Capacity	Weight (Empty)
PVM18*	PVM18-B*	VersaMist Misting Fan	115	168	2.2	10	35
PVM18C*	PVM18C-B*	VersaMist with Integrated Wheels and Pull Handle	115	168	2.2	14	43

Best Sellers!

*Imported Fan Heads.



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 Rings	
Model	Description
MK-1200	6" Diameter, Includes 3 BN12 Nozzles
MK-100B	16" Diameter, Includes 4 BN12 Nozzles
MK-200B	26" Diameter, Includes 6 BN12 Nozzles

High Pressure Mist Rings	
Model	Description
HP-15.75MR6BL	15.75" OD, Requires 8 Nozzles, 12/24 Thread
HP-22MR10BL	22" OD, Requires 10 Nozzles, 12/24 Thread
HP-25MR12BL	25" OD, Requires 12 Nozzles, 12/24 Thread

Misting Nozzles		
Model	Description	Where Used
BN8	High Pressure Misting Nozzle, Brass with Stainless Steel Insert, .008" Orifice, 10/24 Thread	Optional
BN8-1224	High Pressure Misting Nozzle, Brass with Stainless Steel Insert, .008" Orifice, 12/24 Thread	VersaFog, High Pressure Mist Rings
BN12	Low Pressure Misting Nozzle, Brass with Stainless Steel Insert, .012" Orifice, 10/24 Thread	VersaMist, Low Pressure Mist Rings
BN16	Low Pressure Misting Nozzle, Brass with Stainless Steel Insert, .016" Orifice, 10/24 Thread	Optional
BN20	Low Pressure Misting Nozzle, Brass with Stainless Steel Insert, .020" Orifice, 10/24 Thread	Optional
BNP-1224	Misting Plug, Brass, 12/24 Thread	VersaFog, High Pressure Mist Rings

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).



Portable Air Conditioners



Air Cooled Portable Air Conditioners

Designed for portability and convenience, Schaefer Portable Air Conditioners roll easily from the shop floor to indoor office areas and set up in minutes. The Schaefer air-cooled portable air conditioner line consists of models from 13,500-28,500 BTU/hr. (1-2 tons).

- **Cools Quietly.** Cools quietly at office-acceptable sound levels without significant addition to background noise. Ideal for supplemental or temporary cooling in equipment rooms, plant floors or field offices. Featuring backward-inclined plenum evaporator and condenser fans, it operates at the lowest decibel level for portable air conditioners.
- **Cools Effectively.** Delivers full performance at a wide range of ambient temperature and humidity levels. A thermostatic-expansion valve (not found in other portable air conditioners) automatically adjusts to the environment, allowing the units to operate under more extreme conditions at lower cost and with less freeze-up.
- **Cools Efficiently.** Schaefer's portable air conditioners cost less to operate because they draw the least amount of power on a per-ton of cooling basis compared to other portable air conditioners.

Just plug in and cool - no special electrical requirements are needed. Larger sizes available by special order.

Built Tough for Rental, Industrial and Commercial Applications.

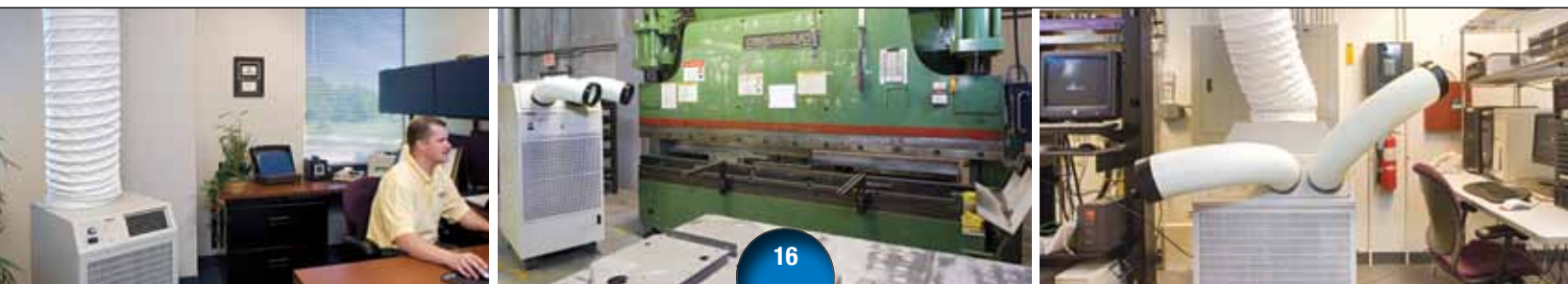


Model	PAC-TZ12B	PAC-TZ18B	Best Seller!	PAC-TZ24B
Cooling Capacity ¹	13,500 BTU/hr (1.1 tons)	17,300 BTU/hr (1.4 tons)		28,500 BTU/hr (2.3 tons)
Power Supply ² : Volts / Phase / Hertz / Amps	115 / 1 / 60 / 15	115 / 1 / 60 / 15		208-230 / 1 / 60 / 20
Thermostat Control	Mechanical	Mechanical		Mechanical
Total Power Consumption (kW)	1.4	4.4		3.0
Current Consumption (Amps)	11.9	12.0		13.2
Recommended Circuit Amps	15.0	15.0		20.0
NEMA Plug Type	5-15P	5-15P		6-20P
Evaporator CFM, Free Discharge	350	500		750
Condenser CFM	500	1,000		1,000
Maximum Duct Length (Ft.)	40	40		40
Operating Limits (min-max) °F	65-105	65-110		65-105
Sound Level (dB)	57	61		63
L x W x H (Inches)	28 x 19 x 38	28 x 22 x 46		29 x 28 x 41
Net Weight / Shipping Wt (Lbs)	163 / 205	221 / 279		251 / 305

1. Rating Conditions: 95°F at 60% RH. 2. Electrical ratings based on UL484. All specifications are subject to change without notice.

Air Conditioner Accessories • Please call 1.800.779.3267 for more information.

Nozzle Kit directs cool air precisely where needed. Ceiling Discharge Kit allows condenser-air to be vented to the plenum area above a suspended ceiling. Condenser Return-Air-Plenum allows supply-air to be ducted to the condenser coil. Evaporator Return-Air-Plenum allows supply-air to be ducted to the evaporator coil. Supply-Duct Adapter allows user to connect duct work to unit's cold-air discharge. Condensate Pump Kit automatically removes evaporator-coil condensation allowing continuous operation.





Downblast Roof Exhauster



"Your Special Fan" from **SCHAEFER**

Through a partnership with a large, global fan supplier, Schaefer can design and source fan solutions of essentially any size for essentially any industrial or commercial application.



Filtered Supply Fans

Product Line

Our extensive product line includes centrifugal fans, plenum fans, radial bladed fans, supply fans, downblast and upblast centrifugal and axial roof and wall exhausters, filtered supply fans, cabinet ventilators, tubeaxial fans, vaneaxial fans, fumehood exhaust fans, smoke and heat exhaust fans, spark resistant fans, mixed flow and material handling fans, and others. Available fan construction materials include steel, aluminum and Endurex. Special coatings for long life in extremely harsh environments are available. Most fans are available in explosion resistant versions.



Portable Mancoolers

Applications

Commercial fan applications include ventilation fans for retail and office buildings, restaurants, schools, hospitals, and government buildings. Industrial fan applications include air and material handling, air cleaning, ventilation, cooling, heating, combustion air supply, filtration and drying systems, fume hoods, spray-paint booths and exhaust systems.

Lead Times

Lead times on "Your Special Fan" range from 4 weeks for a limited range of "QuickShip" fans to 12 weeks or more for design-and-build fans.



Tubeaxial Fans

Application Examples

Dairy Farm in Saudi Arabia

Customer required a high powered, high static pressure feed fan for his custom "pop-up" udder drying system in his holding pen.

SOLUTION: Schaefer specified and provided a 21", 10 HP, Vaneaxial fan capable of 3,000 cfm at 5" S.P.



Heavy Duty Wall Fans

Anhydrous Sodium Sulphate Manufacturer - USA

Original exhaust fans had corroded badly in this highly corrosive environment and needed to be replaced.

SOLUTION: Schaefer specified and provided seven medium duty 5 HP, 48" propeller wall exhaust fans entirely coated with a protective phenolic coating. The leading edges of the fan blades will need to be re-coated annually, as the phenolic coating abrades away due to the solids in the airflow.



Smoke & Heat Exhaust Fans

Sugar Manufacturer - USA

Original high static pressure process fan had too short a lifetime in an environment that includes small amounts of Hydrogen Sulphide.

SOLUTION: Schaefer specified and provided a 4 HP, 2000 cfm @ 7" S.P. radial blade fan completely made of 316 stainless steel.

For more information about "Your Special Fan" call Schaefer at 1.800.779.3267 and ask to speak to Jason.

Fiberglass Cone Exhaust Fans



57" Fiberglass Cone Exhaust Fans

Schaefer's 57" Fiberglass Exhaust Fan is the ideal solution for dairymen seeking superior performance and efficiency in a manageable package for tunnel and cross ventilation applications. Built to last, and specifically designed to fit side-by-side in dairies with standard post spacings, Schaefer's 57" Fiberglass Cone Exhaust Fans deliver unrivaled ROI. More than 1,000 fans have been installed since introduction in 2010.

New for 2013: Choice of one- & two-piece cones and optional Remote Lubrication System.



Features & Benefits

- High Volume (31,700 cfm @ 0.10") and High Efficiency (21.1 cfm/watt @ 0.10") configurations available.
- Narrow profile, smooth-both-sides, UV protected fiberglass housing is aesthetically pleasing, easy to clean and long-lived.
- Heavy duty, UV protected, polyethylene cone maintains its shape and greatly increases fan performance.
- Designed to maximize the number of fans that can be installed in dairies with standard 12', 18' and 24' post spacings.
- Available with 3-wing or 5-wing blades.
- Ships fully assembled, complete with aluminum inlet shutter and self-adjusting belt tensioner. Cone must be added in the field.
- Designed for ease of maintenance, with easy belt replacement and optional Remote Lubrication System.

Dimensions

Rough-in dimensions: 62.5" x 62.5"

Cone major diameter: 67"

Fan depth: 64" from mounting flange to outside end of cone.



Model	Model Type	Galvanized Blade	HP	Phase	Volts	Amps	CFM@0.10" S.P.	CFM/Watt@0.10" S.P.	Tested
573CF112G-1-HE	High Efficiency	3-Wing	1-1/2	1	115/230	13.6/6.8	25,100	21.1	BESS LAB
573CF112G-1-HV	High Velocity	3-Wing	1-1/2	1	115/230	13.6/6.8	28,600	19.3	BESS LAB
573CF112G-3-HE	High Efficiency	3-Wing	1-1/2	3	208-230/460	4.6-4.8/2.4	27,600	20.8	BESS LAB
573CF112G-3-HV	High Velocity	3-Wing	1-1/2	3	208-230/460	4.6-4.8/2.4	29,600	18.9	BESS LAB

573CF2G-1-HE	High Efficiency	3-Wing	2	1	230	9.5	25,600	20.8	BESS LAB
573CF2G-1-HV	High Velocity	3-Wing	2	1	230	9.5	31,400	16.8	BESS LAB
573CF2G-3-HE	High Efficiency	3-Wing	2	3	208-230/460	6.0-5.8/2.9	28,100	20.4	BESS LAB
573CF2G-3-HV	High Velocity	3-Wing	2	3	208-230/460	6.0-5.8/2.9	31,700	17.7	BESS LAB

Best Seller!

5-Wing, Bess Lab tested models also available. Please call Customer Care at 1.800.779.3267.



Fiberglass Exhaust Fans



FFM483G1

Fiberglass Exhaust Fans

Schaefer's agricultural market heritage taught us to design and build highly efficient (high cfm/watt), long lived and competitively priced fans for agricultural and other applications. Schaefer's 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.



Features & Benefits

- Choice of 36", 48" and 52" sizes; choice of 1-phase and 3-phase motors of various sizes.
- Designed for high airflow and high efficiency.
- Totally enclosed, thermally protected motors for safety and long life.
- Fans ship fully assembled with aluminum inlet shutters, self-adjusting belt tensioner and powder coated outlet guard.
- Designed for ease of maintenance, with easy belt replacement and optional Remote Lubrication System.
- Suitable for buildings with up to 12" wall thickness.



Model	Size	Speeds	Phase	Blade Type	HP	Volts	Amps	CFM@0.05" S.P.	Rough-in Size (W x H)	Tested
Direct-Drive Fiberglass Exhaust Fans										
FFM363GD12	36"	1	1	3-Wing Galvanized	1/2	115/230	7.0/3.5	9610	37-1/2" x 38-3/4"	SCHAEFER
FFM363SD12	36"	1	1	3-Wing Stainless Steel	1/2	115/230	7.0/3.5	9780	37-1/2" x 38-3/4"	SCHAEFER
FFM363GD12-3	36"	1	3	3-Wing Galvanized	1/2	230/460	2.3/1.2	9610	37-1/2" x 38-3/4"	SCHAEFER
Belt-Drive Fiberglass Exhaust Fans										
FFM363G12	36"	1	1	3-Wing Galvanized	1/2	115/230	4.6/2.3	9320	43-1/2" x 43-3/4"	SCHAEFER
FFM365G12	36"	1	1	5-Wing Galvanized	1/2	115/230	4.6/2.3	11,012	43-1/2" x 43-3/4"	SCHAEFER
FFM365G12-2	36"	2	1	5-Wing Galvanized	1/2	230	2.3/1.6	11,012	43-1/2" x 43-3/4"	SCHAEFER
FFM483G1	48"	1	1	3-Wing Galvanized	1	115/230	8.4/4.2	17,800	55-3/4" x 56-1/4"	SCHAEFER
FFM485G1	48"	1	1	5-Wing Galvanized	1	115/230	8.4/4.2	22,365	55-3/4" x 56-1/4"	SCHAEFER
FFM485G1-2	48"	1	1	5-Wing Galvanized	1	230	5.3/3.0	20,570 /13,419	55-3/4" x 56-1/4"	SCHAEFER
FFM485G1-3	48"	1	3	5-Wing Galvanized	1	208-230/460	3.2-3.2/1.6	22,365	55-3/4" x 56-1/4"	SCHAEFER
FFM523G1	52"	1	1	3-Wing Galvanized	1	115/230	8.4/4.2	24,057	59-1/4" x 59-1/4"	SCHAEFER
FFM525G1	52"	1	1	5-Wing Galvanized	1	115/230	8.4/4.2	24,245	59-1/4" x 59-1/4"	SCHAEFER
FFM523G112	52"	1	1	3-Wing Galvanized	1-1/2	208-230	6.7-6.2	24,057	59-1/4" x 59-1/4"	SCHAEFER

Other motor and blade combinations available. Please call Customer Care at 1.800.779.3267.



Galvanized Slant Wall Exhaust Fans



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.



Features & Benefits

- Designed for high airflow and high efficiency.
- Totally enclosed, thermally protected motors for safety and long life.
- Fans ship fully assembled with aluminum inlet shutters, self-adjusting belt tensioner (on belt-drive models) and galvanized outlet guard.
- Designed for ease of maintenance, with easy belt replacement and optional Remote Lubrication System.
- Suitable for buildings with up to 6" wall thickness using standard rough-in dimensions.
- Call for rough-in dimensions for walls thicker than 6".

Schaefer offers a wide variety of galvanized Slant Wall Exhaust Fans to meet your specific application needs.

Slant Wall Exhaust Fan Options

Sizes: 24", 30", 36", 42", 48", 54"
 Configuration: Direct-Drive (24" or 30"); Belt-Drive (24", 30", 36", 48" and 54")
 Blade Style: 3-Wing or 5-Wing
 Blade Material: Galvanized Steel
 Motor HP: 1/2, 3/4, 1, 1-1/2 or 2
 Motor Phases: 1-Phase or 3-Phase; 1-Speed or 2-Speed



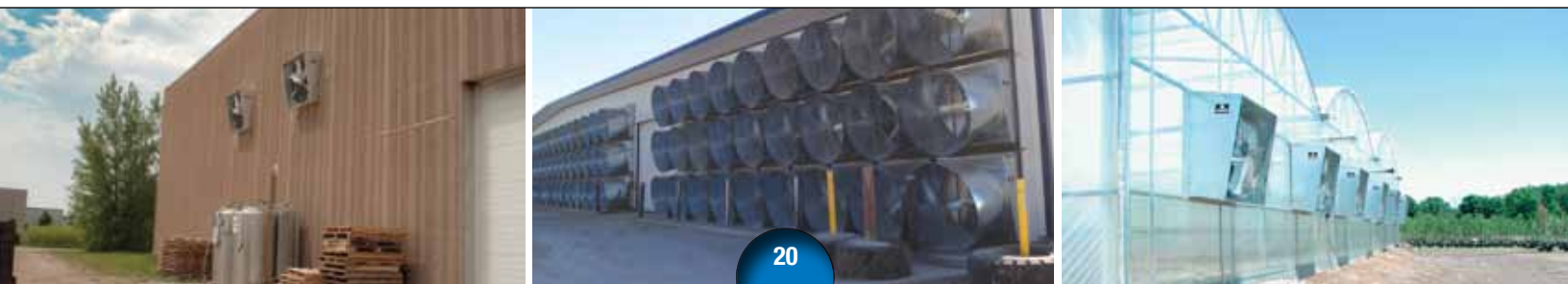
Best Sellers

Performance data for all models on page 35 and at www.schaeferfan.com

Model	Size	Wings	Drive	Phase	HP	Volts	Amps	CFM at 0.05"	Rough-in (W x H)	Tested
245SDD12	24"	5	Direct	1	1/2	115/230	7.0/3.5	6550	31-1/2" x 32"	SCHAEFER
245S12	24"	5	Belt	1	1/2	115/230	4.6/2.3	6144	31-1/2" x 32"	SCHAEFER
303SDD12	30"	3	Direct	1	1/2	115/230	7.0/3.5	7164	37-1/4" x 37-3/4"	SCHAEFER
305S12	30"	5	Belt	1	1/2	115/230	4.6/2.3	7005	37-1/4" x 37-3/4"	BESS LAB
363S12	36"	3	Belt	1	1/2	115/230	4.6/2.3	9340	43-1/2" x 44"	BESS LAB
365S12	36"	5	Belt	1	1/2	115/230	4.6/2.3	9518	43-1/2" x 44"	BESS LAB
423S34	42"	3	Belt	1	3/4	115/230	7.8/3.9	13,738	49-1/2" x 50"	SCHAEFER
483S1	48"	3	Belt	1	1	115/230	8.4/4.2	19,300	55-1/2" x 56"	BESS LAB
485S112	48"	5	Belt	1	1-1/2	230	6.7	22,283	55-1/2" x 56"	BESS LAB
545S112G	54"	5	Belt	1	1-1/2	230	6.7	25,707	61" x 62"	BESS LAB
545S112G-3	54"	5	Belt	3	1-1/2	230/460	4.7/2.3	27,438	61" x 62"	BESS LAB

* 54" Slant wall exhaust fans also available with cones for enhanced performance.

Other motor and blade combinations available. Please call Customer Care at 1.800.779.3267.



Galvanized Box Exhaust Fans



Belt-Drive Galvanized Box Exhaust Fans

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



Features & Benefits

- Designed for high airflow and high efficiency.
- Totally enclosed, thermally protected motors for safety and long life.
- Fans ship fully assembled with aluminum outlet shutters, self-adjusting belt tensioner and galvanized inlet guard.
- Designed for ease of maintenance, with easy belt replacement and optional Remote Lubrication System.
- Suitable for buildings with any wall thickness.

Schaefer offers a wide variety of galvanized Box Exhaust Fans to meet your specific application needs.

Belt-Drive Box Exhaust Fan Options

Sizes: 36", 42" or 48" Motor HP: 1/2, 3/4, 1 or 1-1/2
 Blade Style: 3 or 5-Wing Motor Phases: 1-Phase or 3-Phase
 Blade Material: Galvanized Motor Speeds: 1-Speed or 2-Speed



Best Sellers

Additional performance data at www.schaeferfan.com

Model	Diameter	Wings	Phase	HP	Volts	Amps	CFM at 0.05" S.P.	Rough-in (W x H)	Tested
363B12	36"	3	1	1/2	115/230	5.2/2.6	9340	43" x 43"	SCHAEFER
365B12	36"	5	1	1/2	115/230	5.2/2.6	9520	43" x 43"	SCHAEFER
365B34	36"	5	1	3/4	115/230	7.8/3.9	10,690	43" x 43"	SCHAEFER
483B1	48"	3	1	1	115/230	10/5.0	19,818	55" x 55"	SCHAEFER
483B1-3	48"	3	3	1	230/460	4.8/2.4	19,300	55" x 55"	SCHAEFER
485B1	48"	5	1	1	115/230	10/5.0	18,600	55" x 55"	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.

Direct-Drive Box Exhaust Fan Options

Sizes: 36" & 48" Motor HP: 1/2 or 1
 Blade Style: 2-Wing (48") 3-Wing (36") Motor Phases: 1-Phase or 3-Phase
 Blade Material: Galvanized Steel Motor Speed: 1-Speed



Best Sellers

Model	Diameter	Wings	Phase	HP	Volts	Amps	CFM at 0.05" S.P.	Rough-in (W x H)	Tested
363B12DD-HC	36"	3	1	1/2	115/230	7.0/3.5	9600	43" x 43"	SCHAEFER
363B12DD-HC-3	36"	3	3	1/2	230/460	2.3/1.2	11,400	43" x 43"	SCHAEFER
482B1DD-HC	48"	2	1	1	115/230	12.8/6.4	21,600	55" x 55"	SCHAEFER
482B1DD-HC-3	48"	2	3	1	230/460	5.0/2.5	21,900	55" x 55"	SCHAEFER

Polyethylene Exhaust Fans



PFM1600-1

Polyethylene Exhaust Fans

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.

These high quality fans are built with rugged polyethylene housings, TEAO motors and polypropylene fan blades to ensure survival in the toughest conditions for years to come. 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.

Features & Benefits

- Rugged polyethylene housing, polypropylene blade and integrated PVC or aluminum shutter ensures long life and survival in the toughest of conditions.
- Polyethylene construction is corrosion resistant and effortless to clean.
- Energy efficient, maintenance free motor saves both time and money.
- Motor and blade combination designed for best in class performance.
- Designed to be flush mounted with interior walls up to 10" thick for use in a broad range of facilities.
- Fan ships fully assembled for your ease of installation.

Polyethylene Exhaust Fan Options

Sizes: 9", 12", 16", 20", 24"
 Configuration: Direct-Drive
 Blade Style: 3, 4, 5, 6-Wing

Blade Material: Polypropylene or Galvanized
 Motor HP: 1/6, 1/3, 1/2
 Motor Phases: 1-Phase or 3-Phase



Model	Diameter	Shutter	Blade Type	Phase	HP	Volts	Amps	CFM	Rough-In (W x H)	Tested
PFM0900-1	9"	PVC	6 - Polypropylene	1	1/6	115/230	1.9/1.0	1091	13-3/4" x 14-1/2"	BESS LAB
PFM1200-1	12"	PVC	6 - Polypropylene	1	1/3	115/230	3.8/1.9	1604	15-3/4" x 16-3/4"	SCHAEFER
PFM1600-1	16"	PVC	3 - Polypropylene	1	1/3	115/230	3.8/1.9	3085	19-1/2" x 20-1/2"	BESS LAB
PFM2000-1	20"	PVC	3 - Polypropylene	1	1/3	115/230	3.8/1.9	3533	23-1/2" x 24-3/4"	BESS LAB
PFM20HC-1	20"	PVC	4 - Polypropylene	1	1/2	115/230	4.8/2.4	4966	23-1/2" x 24-3/4"	BESS LAB
PFM20HC-3	20"	PVC	4 - Polypropylene	3	1/2	230/460	1.0/0.5	4966	23-1/2" x 24-3/4"	SCHAEFER
PFM2400-1A	24"	Aluminum	4 - Polypropylene	1	1/2	115/230	4.8/2.4	6793*	29" x 29-1/2"	SCHAEFER
PFM2400-3A	24"	Aluminum	5 - Polypropylene	3	1/2	230/460	1.0/0.5	6793*	29" x 29-1/2"	SCHAEFER
PFM2405-1A	24"	Aluminum	5 - Galvanized	1	1/2	115/230	7.0/3.5	6793*	29" x 29-1/2"	SCHAEFER
PFM2400-1	24"	PVC	4 - Polypropylene	1	1/2	115/230	4.8/2.4	6793*	29" x 29-1/2"	SCHAEFER
PFM2405-3A	24"	Aluminum	5 - Galvanized	3	1/2	230/460	2.3/1.2	6793*	29" x 29-1/2"	SCHAEFER

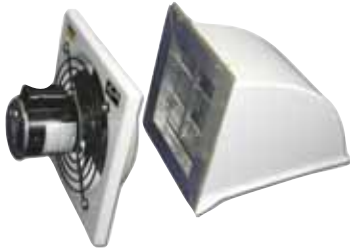
• Variable speed when used with optional speed controls not included with fan model. Fan performances at 0.05" static pressure. Performances may vary.
 * Fan performances at 0.00" static pressure.



Small Exhaust Fans

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. With superior weather protection, these fans are designed for thin walled, modest sized facilities, including greenhouses, garages and workshops.



H1200-1

Features & Benefits

- Designed with polypropylene fan blades for superior performance and durability.
- Fan mounts on inside of building and shutter weather hood on the outside of the building.
- High quality, energy efficient motors are maintenance free for maximum performance and ease of use.
- Molded, one-piece fiberglass weather hood is good looking and provides the ultimate weather protecting, allowing for extended fan life and sustained performance.
- Integrated shutter is heavy-duty aluminum and corrosion resistant for increased durability.
- **Weatherhoods can be purchased separately. Models: FH-1200, FH-1600, FH-2000**



FH-1200

Model	Description	Phase	HP	Volts	Amps	CFM@0.05" S.P.	Rough-In (W x H)
H1200-1*	12" Hood-Style Exhaust Fan with Shutter	1	1/3	115 / 230	3.8 / 1.9	1604	13" x 13"
H1600-1*	16" Hood-Style Exhaust Fan with Shutter	1	1/3	115 / 230	3.8 / 1.9	2615	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	5725	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

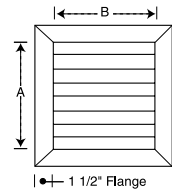
Schaefer's shutter-style exhaust fans offer an energy efficient solution to meet low to medium exhaust airflow requirements. These exhaust fans work perfectly in thin-walled buildings requiring exhaust fans with a low profile such as greenhouses.



SFT-1200

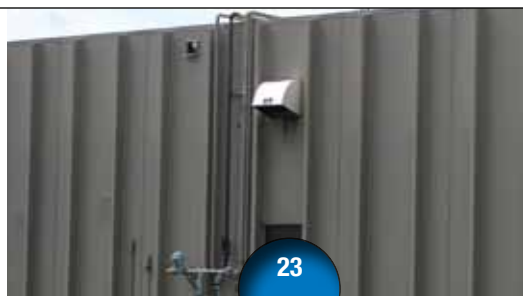
Features & Benefits

- Low profile makes fan ideal for thin-walled buildings and where space is limited.
- Aluminum blade and rugged PVC shutter provides durability and longer life.
- Heavy-duty motors are totally enclosed and maintenance free for worry free use.
- Fan mounts flush to the exterior wall.



Model	Description	HP	Volts	Amps	CFM@0.05" S.P.	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	3122	20-5/8" x 20-5/8"
SFT-2400A	24" Aluminum Shutter-Style Two-Speed Exhaust Fan	1/6	120	2.04 / 1.61	3746 / 2998	24-1/2" x 24-1/2"

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

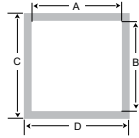


Aluminum Shutters

Schaefer's Aluminum Shutters restrict airflow to 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
'WS' Models
Shown with Optional
SHUTTERMOTOR-SM
Motor and Hardware Kit



Features & Benefits

- Constructed of heavy-duty brushed aluminum for corrosion resistance and greater durability.
- Louvers are interlocking for maximum weather protection. Lightweight for high efficiency and easy installation.
- Tie bar eliminates shutter flapping.
- Shutter motor kits available for automated opening/closing.
- Imported economy shutters available in select sizes for even lower costs.

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 available.



SHUTTERMOTOR-SM

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

Model	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.

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

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

Model	Size	A	B	C	D	Imported*
WS-120	12"	11-7/8"	12-1/8"	15-1/2"	15-1/4"	
WS-160	16"	15-7/8"	16-1/8"	19-1/2"	19-1/4"	
WS-180	18"	17-7/8"	18-1/8"	21-1/2"	21-1/4"	
WS-200	20"	19-7/8"	20-1/8"	23-1/2"	23-1/4"	
WS-240	24"	23-7/8"	24-1/8"	27-1/2"	27-1/4"	
WS-270	27"	26-7/8"	27-1/8"	30-1/2"	30-1/4"	
WS-300	30"	29-7/8"	30-1/8"	33-1/2"	33-1/4"	X
WS-330	33"	32-7/8"	33-1/8"	36-1/2"	36-1/4"	
WS-360	36"	35-7/8"	36-1/8"	39-1/2"	39-1/4"	X
WS-390	39"	38-7/8"	39-1/8"	42-1/2"	42-1/4"	
WS-420	42"	41-7/8"	42-1/8"	45-1/2"	45-1/4"	X
WS-450	45"	44-7/8"	45-1/8"	48-1/2"	48-1/4"	
WS-480	48"	47-7/8"	48-1/8"	51-1/2"	51-1/4"	X
WS-510	51"	50-7/8"	51-1/8"	54-1/2"	54-1/4"	
WS-540	54"	53-7/8"	54-1/8"	57-1/2"	57-1/4"	X
WS-570	57"	56-7/8"	57-1/8"	60-1/2"	60-1/4"	
WS-600	60"	59-7/8"	60-1/8"	63-1/2"	63-1/4"	X
WS-660	66"	65-7/8"	66-1/8"	69-1/2"	69-1/4"	

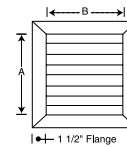
• Add 1/2" to A and B for rough-in opening.

* Available in an economy imported model. Add an "E" to the end of model #.

Rough-in openings are not listed, see website for more information.

Standard & Motorized PVC Shutters

- White exterior grade PVC is maintenance free and is resistant to rust and corrosion.
- Louvers are curved for a tight seal when closed.
- Efficient, aerodynamic design.
- Corners are fused together for exceptional strength and durability.
- Optional integrated shutter motors 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	MIT-1400	14"	14-1/8"	14-1/8"
PS16	MIT-1600	16"	16"	16"
PS18	MIT-1800	18"	18-1/8"	18-1/8"
PS20	MIT-2000	20"	20"	20"
PS22	MIT-2200	22"	22-1/8"	22-1/8"
PS24	MIT-2400	24"	24"	24"
PS27	N/A	27"	27"	27"



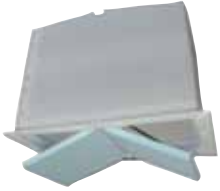









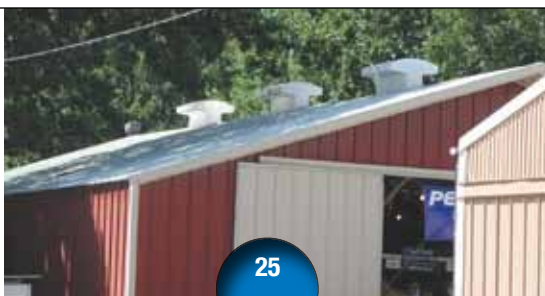
Air Intakes

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" S.P.	Rough-in Size (Width x Height)
	RV-3000	High Volume Roof/Ridge Inlet & Exhaust Vent <ul style="list-style-type: none"> Exhausts hot air in the summer; an inlet for fresh air in the winter One-piece molded polyethylene construction with UV protection for long life. Installs on roofs with pitches from 2/12 to 6/12. Downward facing bird-screened inlets protected from rain and snow. Inlets remain functional despite snow drifts up to 14" deep. 	3000	11-1/2" x 47" 
	CI-1300	Ceiling Inlet <ul style="list-style-type: none"> Draws fresh air from above an interior ceiling. Mounts flush with ceiling and extends 16" into attic. Durable polyethylene housing with insulated damper doors. Damper doors are normally closed; they open wider with higher airflow. Fits between 16" or 24" ceiling joists. 	1350	13-1/2" x 22-3/4" 
	HI-1000P	Hall Inlet <ul style="list-style-type: none"> Designed to control airflow between 2 interior spaces. Mounts flush to an interior wall up to 6" thick. Durable polyethylene housing with insulated damper door and air deflectors adjust airflow volume and direction with the seasons. 	1000	22-3/8" x 11-1/4" 
	WI-1000P	Wall Inlet <ul style="list-style-type: none"> Draws outside air through walls up to 8" thick. Mounts flush to an interior wall. Durable polyethylene housing with insulated damper door and air deflectors adjust airflow volume and direction with the seasons. Weatherhood protects bird screened inlet from the elements. 	1000	22-5/8" x 11-1/2" 
	WI-2000P	Wall Inlet <ul style="list-style-type: none"> Draws outside air through walls up to 6" thick. Mounts flush to an interior wall. Durable polyethylene housing with insulated damper door and air-stop door adjust airflow volume and direction with the seasons. Weatherhood protects bird screened inlet from the elements. 	2000	22-3/4" x 19" 



Keep the cooling on the cows!™



FlipFan® Dairy Cooling System

Designed to provide the best day and night cow cooling possible. Rugged and durable. Easy to install and maintain. Half the installed cost of the competition!

- Steerable (180° rotation), long throw, misting fans for day and night cooling
- Customizable automatic controls
- Reliable and easy to install and maintain
- High return on investment

The patent pending, Schaefer FlipFan dairy cooling system combines advanced 36" high velocity fans and misting systems with a horizontal rotational mounting structure that allows the fans to be adjusted to compensate for windspeed and direction and to "flip" 180° to point outside the shade for nighttime cow cooling.

With from 2 – 4 fans per bay, FlipFan provides an average velocity of 7 mph across the shade, and up to 2 gal/min. of evaporative cooling per bay.

With control options ranging from simple manual controls to iPad® and iPod® driven PLCs that adjust your system for time, temperature, humidity, wind speed, milking and feed schedules, FlipFan delivers the ultimate dairy cooling solution for a range of budgets.

Please call 1.800.779.3267 to learn how FlipFan can improve your dairy's **bottom line!**



Dairy Soaking System



Dairy Soaking System

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

Schaefer recommends showering the cow for a short period of time (0.5 to 3 minutes) while the cow is at the feed line, in its holding pen or while returning from milking, to soak the cow to the hide. After the shower shuts off, the water is evaporated from the cow by Schaefer circulation fans blowing across the cow's back for 5 to 15 minutes before the cycle is repeated.



Features & Benefits

- Circulation fans & soaking is an extremely cost effective cow-cooling solution.
- High capacity, low pressure, large droplet soaker nozzles quickly soak cows to the hide.
- Systems can be designed for any dairy layout using standard components including controllers/timers, PVC piping, valves and filters, shower nozzles and check valves.
- Controllers operate on 110V or 220V and control from 1 to 4 zones.
- Sprinklers can be time activated or motion activated (e.g. when cows are returning from being milked).

Model	Description
Controllers, Timers and Sensors	
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)
Valves	
SS-EV	Electric Valve 24 VAC, 1" FPT
SS-VFRKIT	Electric Valve, Filter & Pressure Reducer Kit
Nozzles	
SS-NCV2	Nozzle Check Valve 2 PSI Cracking Pressure
SS-NCV5	Nozzle Check Valve 5 PSI Cracking Pressure
SS-NB14QC-2	Nozzle Body, 1/4 MPT x Quick Connect, 2 PSI
SS-NB14QC-8	Nozzle Body, 1/4 MPT x Quick Connect, 8 PSI
SS-NB1QC-2	Nozzle Body, 1" Clamp-On x Quick Connect, 2 PSI
SS-NB1QC-8	Nozzle Body, 1" Clamp-On x Quick Connect, 8 PSI
SS-NCQC	Nozzle Cap - Quick Connect with Gasket & Alignment Notch
SS-SNT360-05	Shower Nozzle Tip, Full Circle, 0.5 gpm @ 40 PSI
SS-SNT360-10	Shower Nozzle Tip, Full Circle, 1.0 gpm @ 40 PSI
SS-SNT360-15	Shower Nozzle Tip, Full Circle, 1.5 gpm @ 40 PSI
SS-SN135-23	Shower Nozzle, 135 Degrees, 0.23 gpm
SS-SN135-50	Shower Nozzle, 135 Degrees, 0.50 gpm
SS-SN135-60	Shower Nozzle, 135 Degrees, 0.60 gpm
SS-SN135-85	Shower Nozzle, 135 Degrees, 0.85 gpm
SS-SN180-33MPT	Shower Nozzle, Half Circle, 0.33 gpm, 1/2 MPT
SS-SN180-33	Shower Nozzle, Half Circle, 0.33 gpm, 10-32
SS-SN180-35	Shower Nozzle, Half Circle, 0.35 gpm Adjustable, 10-32
SS-SN90-35	Shower Nozzle, Quarter Circle, 0.35 gpm Adjustable, 10-32
SS-SNK-440	i-Wob Soaker Nozzle Kit for >40' Pens, 4.4 gpm



Additional soaking system components available.
 Please call Schaefer at 1.800.779.3267 for Soaking System design assistance.



Wet Wall Evaporative Cooling System



Double Stacked Systems available.

Wet Wall Assistance • Please call 1.800.779.3267 for more information.

Schaefer Wet Wall Evaporative Cooling System The "Leak-Free" Wet Wall System

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

Features & Benefits

- Up to 30°F temperature drop across evaporative cooling pads.
- Standard wet wall lengths: 10' to 60' in 5' increments.
- Standard wet wall heights:
Single Stacked Systems: 4', 5' or 6'.
Double Stacked Systems: 8' - 12' in 1 foot increments.
- Custom lengths and heights available by special order.
- Choice of 4" or 6" pad thicknesses.
- Choice of uncoated, 1-sided and 2-sided coated pads.
- Up to 5-year pad life with proper pad maintenance.
- Long lived, no-leak, snap together PVC system components (supply line, spray line and reservoir).
- Choice of center-feed and end-feed water supply.
- Choice of 1/3 or 3/4 HP Gould™ pumps; 110V or 220V.
- Single- or multi-stage automatic controls available.
- Easy to install, operate and maintain.
- Water that does not evaporate is re-cycled through the pads; no wasted water.



Wet Wall Pads/ Evaporative Media

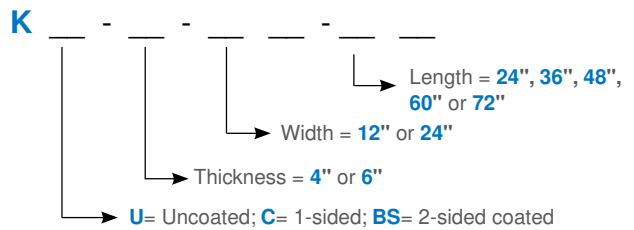
Used in Schaefer Wet Wall Cooling Systems and wet wall systems from other manufacturers.

Features & Benefits

- Fluted cellulose pads designed for maximum airflow, maximum evaporation, structural strength and long life.
- Choice of thicknesses: 4" and 6". Select thin pads for maximum airflow; select thick pads for maximum evaporation and cooling.
- Choice of widths: 12" or 24".
- Choice of lengths: 4', 5' and 6'.
- Choice of uncoated, 1-side coated and 2-side coated. Edge coating increases strength, permits contact and non-contact pad cleaning, slows algae growth and improves aesthetics.
- Frequently ships same-day.

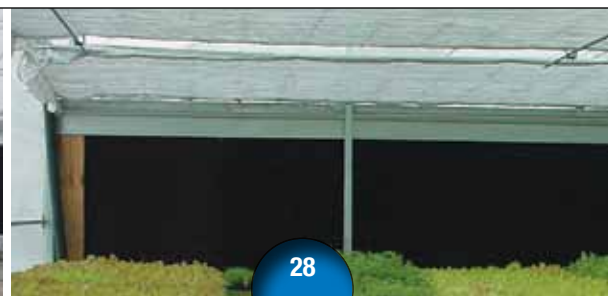


Wet Wall Pad Part Numbers



Part Number Example:

Model: KU-4-12-24
Uncoated, 4" Thick by 12" Wide by 24" Long Wet Wall Pad



In-Line Duct Fans and Blowers

In-Line Duct Fans

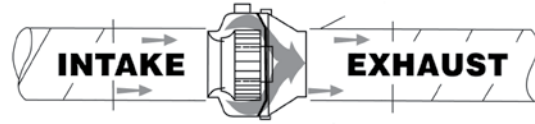


R-250

Ideal for moving heated or chilled air from one building or room to another via ABS pipes. Can be mounted at any angle. UV resistant ABS-PC blend thermo plastic housing suitable for airstream temperatures up to 140°F.

Features

- 6", 8" and 10" diameters.
- Aluminum alloy blade.
- External wiring box for easy connection.
- Waterproof gasket on wiring box.
- Variable speed.



Model	Description	Volts	CFM
R-150	6" In-Line Duct Fan	115	263
CR-150	Clamps (Set of 2) for R-150	-	-
R-200	8" In-Line Duct Fan	115	408
CR-200	Clamps (Set of 2) for R-200	-	-
R-250	10" In-Line Duct Fan	115	649
CR-250	Clamps (Set of 2) for R-250	-	-

• Performance at 0.0" static pressure.



Shaded Pole Blowers

Shaded pole inflation blowers, with forward curved wheels and energy efficient, open drip proof motors. Available with black or white enamel finish.

Frequently used for inflating greenhouse polyethylene.

Choice of standard or economy (-E) blowers.



Model	Description	Imported	Color	Volts	CFM
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
B465	Standard Shaded Pole Blower	No	Black	115	465

• Performance at 0.0" static pressure.

Can't find what you are looking for?

Please call Customer Care at 1.800.779.3267 and we will be happy to assist you!



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.

For more information please visit: www.schaeferfan.com




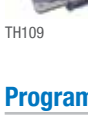



Model	Description
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Speed Controls

 AVS-500	AVS-500 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 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	AVS-650 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	MTC-300 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 Manual Variable Speed Control with RFI filter in water and corrosion resistant container; 6A@115V output.
	H-230 Manual Variable Speed Control with RFI filter in water and corrosion resistant container; 6A@230V output.
	MSC-400 Manual Variable Speed Control with on/off toggle switch and RFI filter in non-corrosive container; 12.5A@115/230V output.

Humidistat, Thermostats and Switches

	THC-1 Humidity Controller for portable evaporative coolers to manage humidity levels with the turn of a dial.
	TF115 1-Stage Thermostat Switch, 40°F to 110°F with 3° differential, NEMA 4x, UL E50023; 16A@120V, 12A@240V, 10A@277V.
	T335 1-Stage Thermostat Switch, 40°F to 102°F with 2.7° differential, weatherproof enclosure; 12A@120V, 10A@240V; imported.
	TH109 2-Stage Thermostat Switch, 40°F to 100°F with 3° differential, NEMA 4x, UL E50023; 16A@120V, 12A@240V, 10A@277V.
	FS-20 Manual Switch for 2-speed motors with heavy duty toggle switch in water and corrosion resistant container.

Programmable Controllers

 SEC-HD	NVC Natural Ventilation Control with 2 relay stages (open/close); adjustable temperature set-point and differential; manual override; LED display; corrosion, water and fire resistant enclosure; CSA approved; 6A@115/230V (relay stages).
	TVS 3-Stage Environmental Control with 2 variable stages and 1 relay stages plus 1 alarm relay; 7 configurable programs; adjustable temperature set-point, differential and hi/lo alert settings; LED display; corrosion, water and fire resistant enclosure; CSA approved; 7.5A@115/230V (variable stages) and 6A@115/230V (relay stage).
 PEC-PLUS	SEC-HD 5-Stage Environmental Control with 2 variable stages and 3 relay stages plus 1 alarm relay; 7 configurable programs; 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 6A@115/230V (relay stages).
	PEC-PLUS 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).
 SUPRA	SUPRA 16-Stage Environmental Control with 4 variable stages and 12 relay stages plus 1 alarm relay; programmable; adjustable temperature set-point, differential and hi/lo alert settings; humidity and water use monitoring; 4-line LCD display; corrosion, water and fire resistant enclosure; CSA approved; 10A@115/230V (variable stages) and 10A @ 115/230V (relay stages).

Radiant Heaters

HotZone® High Intensity Gas Infrared Heaters

Gas high intensity radiant heaters deliver a large amount of radiant heat to a small area from a long distance. Available with standard lenses (for larger area heating) or HotZone® linear (an oval spot pattern) or circular spot IRLens® for more focused heating. Natural gas and propane heaters available. For indoor use only. Not recommended for home or garage use.

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

SCHAEFER

Low Intensity Gas Infrared Heaters

Low intensity tube heaters delivers a large amounts of heat to large areas from overhead heaters. Ideal for factories, warehouses, arenas etc. that are not equipped with forced air heaters. People feel the same amount of comfort as with forced air heating at a 6°F to 10°F lower temperature set point. Easy to install. Inexpensive to operate. 40 mBTU/hr to 200 mBTU/hr models available. Straight tube lengths from 10' to 70'. U-tube lengths from 10' to 35'. Natural gas or propane. Made in the USA.



GQG/GQU

Zubri™ Portable Heater



Best Seller!

Z1-12CK

Extend your patio and tent use through the cooler seasons with portable radiant heaters. The Zubri Z1-12CK heats approximately a 300 square foot area. No tools are necessary to assemble. Stores away in its own hard-shell carrying case. Utilizes 20 lb. propane tank. For outdoor use only.

- 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.
- 7'3" tall, 49 lbs. lbs.



HZE15120BTP

HZS15120AG

HZE15120AF

HZS30240CART

HotZone® Portable Electric Infrared Heaters

Ideal for a wide variety of indoor and outdoor spot heat applications where gas heaters are inappropriate. These highly efficient electric infrared heaters, equipped with a lobster-eye inspired IRLens® to focus the heat to a spot, raise the temperature of people or objects in the spot by 15 degrees or more. Available as wall- or ceiling-mount heaters, as well as several portable heater models. Made in USA.

Model	Description	Power	Mounts	Volts	Cord Length
HZE15120BTP	Curved Back, Black Aluminum	1500W	Tripod Stand	120	9 Feet
HZS15120AG	Square Back, Aluminum	1500W	Tall Pedestal	120	9 Feet
HZE15120AF	Curved Back, Aluminum	1500W	Floor Stand	120	9 Feet
HZS30240CART	Square Back, Aluminum	3000W	Portable Cart	240	25 Feet

For heater design and selection assistance, please call Customer Care at 1.800.779.3267.

Motors



Stud Mount Style



Yoke Mount Style



Base Mount Style

Model	Description	HP	Phase	Speeds	RPM	Volts	Label Amps	Service Factor	NEMA Frame Size	Shaft Dimensions Diameter x Length	Certifications
Stud Mount Motors Without Yoke											
CS100	TEAO, TP, 40°	1/100	1	1	1550	115	0.6	1.0	3.3"	1/4" x 1-1/2"	CSA, UL
CS130	TEAO, TP, 40°	1/30	1	1	1550	115	0.9	1.0	3.3"	5/16" x 1-3/4"	CSA, UL
CS110	TEAO, TP, 40°	1/10	1	1	1725	115/230	1.3/65	1.0	42	1/2" x 2-5/8"	CSA, UL
Stud Mount Motors With Yoke											
CS240	TEAO, TP, 40°	1/4	1	2	1100/800	115	2.9/1.6	1.0	48	1/2" x 2-9/16"	CSA, UL
CS103*	TEAO, TP, 40°	1/3	1	1	1725	115/230	3.8/1.9	1.0	48	1/2" x 2-1/2"	CSA, UL
CS103WD*	TEAO, TP, 40°, WD	1/3	1	1	1700	115/230	4.9/2.5	1.0	56	1/2" x 2"	CSA, UL
CS103WD-3*	TENV, 40°, WD	1/3	3	1	1725	208-230/460	1.9-1.8/0.9	1.35	48	1/2" x 2"	CSA, UL
CS102WD*	TEFC, 40°, WD	1/2	1	1	1725	115/230	7.4/3.7	1.25	48	1/2" x 2-1/4"	CSA, UL
CS102WD-3*	TEFC, 40°, WD	1/2	3	1	1725	230/460	2.0/1.0	1.25	48	1/2" x 2-1/4"	CSA, UL
CS102SSL*	TEFC, 40°, SS	1/2	1	1	1725	115/230	8.2/4.1	1.15	56	5/8" X 2-1/16"	CSA, CE, UL
CS102SSL-3*	TENV, 40°, 50HZ, SS	1/2	3	1	1740/1440	208-230/460	1.5-1.6/0.8	1.15	56	5/8" x 2-1/16"	CSA, UL
CS102*	TEAO, TP, 40°, 50HZ	1/2	1	1	1725/1425	115/230	4.8/2.4	1.0	48	5/8" x 2-1/2"	CSA, UL
CS123*	TEAO, TP, 40°, 50HZ	1/2	3	1	1750/1450	230/460	1.2/0.6	1.0	48	5/8" x 2-1/2"	CSA, UL
CS300*	TEAO, TP, 40°	1/2	1	2	1075/800	115	5.2/2.8	1.0	48	1/2" x 3-3/16"	CSA, UL
CS802*	TEAO, TP, 40°	1/2	1	1	825	115/230	7.0/3.5	1.0	48	5/8" x 2-5/8"	CSA, UL
CS803*	TEAO, TP, 40°, 50HZ	1/2	3	1	825	230/460	2.3/1.2	1.0	56	5/8" x 2-3/4"	CSA, UL
CS850*	TEAO, TP, 40°, 50HZ	1/2	1	1	840	220-240@50Hz	3.1	1.0	48	5/8" x 2-3/4"	CSA, UL
Base Mount Motors											
CS184*	TEAO, TP, 40°	1/2	1	1	1725/1140	230	2.3/1.6	1.0	56	5/8" x 1-7/8"	CSA, UL
CS580*	TEAO, TP, 40°	1/2	1	1	1725	115/230	4.6/2.3	1.0	56	5/8" x 1-7/8"	CSA, UL
CS202*	ODP, TP, 60°	1/2	1	2	1725/1140	115	6.0/3.0	1.0	56	5/8" x 1-7/8"	CSA, UL
CS237*	ODP, TP, 40°, 50HZ	3/4	1	1	1725/1425	120/240	8.8/4.4	1.25	56	5/8" x 1-7/8"	CSA, UL
CS342*	TEAO, TP, 40°	3/4	1	2	1725/1140	115	9.3/5.3	1.0	56	5/8" x 1-7/8"	CSA, UL
CS423*	TENV, 40°	3/4	3	1	1725	208-230/460	2.3-2.4/1.2	1.15	56	5/8" x 1-7/8"	CSA, UL
CS421*	TEAO, TP, 40°	3/4	1	1	1725	115/230	7.8/3.9	1.25	56	5/8" x 1-7/8"	CSA, UL
CS782*	TEAO, TP, 40°, 50HZ	1	1	1	1725/1425	115/230	8.4/4.2	1.15	56	5/8" x 1-7/8"	CSA, UL
CS596*	TEAO, TP, 40°	1	1	2	1725/1140	115	12.3	1.00	56	5/8" x 1-7/8"	CSA, UL
CS512PE*	TENV, TP, 40°, 50HZ	1	3	1	1760/1450	208-230/460	3.3-3.4/1.7	1.25	56	5/8" x 1-7/8"	CSA, CE, UL
CS535T*	TEAO, TP, 40°, 50HZ	1-1/2	3	1	1725/1425	208-230/460	4.7/2.3	1.15/1.0	56	5/8" x 1-7/8"	CSA, UL
CS594-220*	TEAO, TP, 40°, 50HZ	1-1/2	1	1	1725	208-230	6.8-6.4	1.20	56	5/8" x 1-7/8"	CSA, CE, UL
CS513PE*	TENV, TP, 40°, 50HZ	1-1/2	3	1	1750/1450	208-230/460	4.6-4.8/2.4	1.25	56	5/8" x 1-7/8"	CSA, CE, UL
CS514PE*	TENV, TP, 40°, 50HZ	2	3	1	1745/1435	208-230/460	6-5.8-2.9	1.25	56	5/8" x 1-7/8"	CSA, UL

* Reversible.

• Currents and RPM's are manufacturer's ratings. Actual performance readings may vary.

Description Legend: TEAO=Totally Enclosed, Air Over. TEFC=Totally Enclosed, Fan Cooled. TENV=Totally Enclosed, Non Ventilated. TP=Thermally Protected. ODP=Open Drip Proof. WD=Washdown Rated. SS=Stainless Steel Housing. 40°=40°C Ambient Rated. 60°=60° Ambient Rated. 50HZ=50HZ Compatible.

Fan Blades

Model	Diameter	Wings	Pitch	Bore Size	Typical HP Used	Max RPM	Schaefer Fan Model
Aluminum Blades							
AFB-8	8"	5	34°	1/4"	1/100	1550	VK8
AFB-105SF	10"	5	24°	5/16"	1/30	1550	SFT-1200
AFB-123SQ	12"	3	30°	1/2"	1/10	1725	VK12, VK12TF-SPM
AFB-144SF	14"	4	15°	1/2"	1/10	1725	SFT-1600
AFB-184SF	18"	4	22°	1/2"	1/3	1725	SFT-2000
AFB-2000SQ	20"	3	25°	1/2"	1/4	1100	20CFO
AFB-203SQ	20"	3	18°	1/2"	1/3	1725	VK20, 20WH2-BWSC, VK20TF-SPM
AFB-203SQ-58	20"	3	20°	5/8"	1/3	1750	VK20-3
AFB-243SQ	24"	3	14°	5/8"	1/2	1725	VK24, 24WH2-BWSC
AFB-2400SQ	24"	3	16°	1/2"	1/4	1100	24CFO
AFB-3000SQ	30"	3	14°	1/2"	1/2	1075	30CFO
AFB-3600	36"	3	15°	1/2"	1/2	1075	36CFO
SAFB-403P	40"	3	31°	1"	1	1725	PROK142-2HV
Galvanized Blades							
GFB-245	24"	5	24°	5/8"	1/2	825	PFM2405, 245SDD12, 245P12DD
GFB-303	30"	3	32°	5/8"	1/2	825	303SDD12
GFB-305	30"	5	40°	1"	1/2	1725	305S12
GFB-363-22	36"	3	22°	5/8"	1/2	825	VK36, 36DF, VS36VKM, 363P122DD
GFB-363-20	36"	3	20°	5/8"	1/2	825	VS36VKM-2, VS36VKM-2
GFB-363HV	36"	3	35°	1"	1	1725	363P1, 363P1-3
GFB-363P	36"	3	24°	1"	1/3 - 1	1725	36" Panel & Exhaust
GFB-365	36"	5	40°	1"	1/2	1725	36" Panel & Exhaust
GFB-423P	42"	3	38°	1"	3/4	1725	42" Panel & Exhaust
GFB-485P	48"	5	40°	1"	1	1725	48" Panel & Exhaust
GFB-523P	52"	3	30°	1"	1	1725	52" Panel & Exhaust
GFB-52123	52"	3	25°	1"	1	1760	52" Panel & Exhaust
GFB-525P	52"	5	37°	1"	1	1725	52" Panel & Exhaust
GFB-573P	57"	3	33°	1"	2	1745	57" Exhaust
GFB-575P	57"	5	33°	1"	2	1745	57" Exhaust
Polypropylene Blades							
PFB-906	9"	6	35°	3/8"	1/6	3300	PFM0900
PFB-126	12"	6	45°	1/2"	1/6	1725	PFM1200, H1200
PFB-163	16"	3	40°	1/2"	1/3	1725	PFM1600, H1600
PFB-203	20"	3	30°	1/2"	1/3	1725	PFM2000, H2000
PFB-203-58	20"	3	30°	5/8"	1/3	1700	20CFO-EWDP
PFB-203-V	20"	3	35°	5/8"	1/3	1590	20CFO-VWDP
PFB-204	20"	4	40°	5/8"	1/2	1725	PFM20HC, H2000
PFB-244	24"	4	25°	5/8"	1/2	1725	PFM2400, 24CFO-EWDP, 24CFO-SWDP
Stainless Steel Blades							
SSFB-243-58	24"	3	14°	5/8"	1/2	1725	24CFO-EWDS, 24CFO-SWDS
SSFB-3002-58	30"	2	10°	5/8"	1/2	1725	30CFO-EWDS, 30CFO-SWDS
SSFB-363	36"	3	17°	5/8"	1/2	825	FFM363SD12
SSFB-526	52"	6	26°	1"	1-1/2	1725	52" Panel & Exhaust

Warning: Fan blades will vibrate or break if operated beyond their maximum RPM or at a resonant frequency. The use of untested blade and motor combinations is not recommended and not warranted.

Other styles and sizes available. Please call Customer Care at 1.800.779.3267.

Panel Fan Specifications

Fan Size	Fan Model	HP	Phase	Voltage	Nameplate Amps	Blade Material	Wings	RPM	Thrust (lbf)	CFM	Efficiency (cfm/W)	Velocity @ 5 x diameter (fpm)	Tested
24" Galv.	245P12DD*	1/2	1	115/230	7.0/3.5	Galv.	5	1721	6.7	8113	19.2	810	SCHAEFER
36" Galvanized	363P12	1/2	1	115/230	4.6/2.3	Galv.	3	857	9.0	14,100	29.0	917	SCHAEFER
	363P12DD*	1/2	1	115/230	7.0/3.5	Galv.	3	862	9.2	14,254	29.7	920	BESS LAB
	363P12-3	1/2	3	208-230/460	2.0/1.0	Galv.	3	810	8.5	13,703	27.7	891	SCHAEFER
	363P12DD-3*	1/2	3	230/460	2.3/1.2	Galv.	3	855	8.7	13,860	32.2	910	BESS LAB
	363P1	1	1	115/230	8.4/4.2	Galv.	3	773	15.1	18,257	26.0	1187	SCHAEFER
	363P1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	3	769	15.0	18,200	21.7	1180	SCHAEFER
	365P12	1/2	1	115/230	4.6/2.3	Galv.	5	550	9.0	14,100	29.0	920	SCHAEFER
	365P12-3	1/2	3	208-230/460	3.3-3.4/1.7	Galv.	5	518	8.5	13,700	16.31	890	SCHAEFER
48" Galvanized	483P34	3/4	1	115/230	7.8/3.9	Galv.	3	542	16.6	25,459	37.7	942	SCHAEFER
	483P34-3	3/4	3	208-230/460	2.3-2.4/1.2	Galv.	3	512	14.5	23,878	41.8	883	SCHAEFER
	483P1	1	1	115/230	8.4/4.2	Galv.	3	714	25.8	32,030	28.7	1180	BESS LAB
	483P1-2**	1	1	230	5.3/3.0	Galv.	3	657	23.0	30,094	26.8	1113	SCHAEFER
	483P1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	3	630	21.4	28,977	36.2	1072	SCHAEFER
	485P34	3/4	1	115/230	7.8/3.9	Galv.	5	363	16.5	25,489	30.9	943	SCHAEFER
	485P34-3	3/4	3	208-230/460	2.3-2.4/1.2	Galv.	5	343	14.5	23,894	40.3	884	SCHAEFER
	485P1	1	1	115/230	8.4/4.2	Galv.	5	478	25.8	31,873	35.9	1179	SCHAEFER
	485P1-2**	1	1	230	5.3/3.0	Galv.	5	440	23.0	30,094	26.8	1113	SCHAEFER
485P1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	5	422	21.4	29,028	34.6	1074	SCHAEFER	
52" Galvanized	523GP1	1	1	115/230	8.4/4.2	Galv.	3	625	23.9	33,830	38.0	1010	BESS LAB
	523GP1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	3	648	23.5	33,292	40.7	999	SCHAEFER
	523GP1C	1	1	115/230	8.4/4.2	Cast Al.	3	506	21.8	32,337	38.2	970	BESS LAB
	523GP1C-3	1	3	208-230/460	3.3-3.4/1.7	Cast Al.	3	531	21.3	31,377	37.1	941	SCHAEFER
	523GP112	1-1/2	1	208-230	6.8/6.4	Galv.	3	720	31.2	38,683	28.3	1140	BESS LAB
	523GP112-3	1-1/2	3	208-230/460	4.7/2.3	Galv.	3	730	29.9	37,539	33.1	1126	SCHAEFER
	523GP112-3-50	1-1/2	3	208-230/460	4.7/2.3	Galv.	3	716	28.8	37,193	29.1	1070	BESS LAB
	523GP112C	1-1/2	1	208-230	6.8/6.4	Cast Al.	3	580	28.4	36,915	29.6	1090	BESS LAB
523GP112C-3	1-1/2	3	208-230/460	4.7/2.3	Cast Al.	3	618	31.8	39,055	27.4	1160	BESS LAB	
52" Polymer Stainless steel blades available.	523P1	1	1	115/230	8.4/4.2	Galv.	3	540	24.3	33,584	34.6	1140	BESS LAB
	523P1-2**	1	1	230	5.3/3.0	Galv.	3	511	23.0	32,732	29.2	1047	SCHAEFER
	523P1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	3	543	21.3	31,468	40.1	1007	SCHAEFER
	523P1C	1	1	115/230	8.4/4.2	Cast Al.	3	506	21.8	32,080	37.9	1027	BESS LAB
	523P1C-2**	1	1	230	5.3/3.0	Cast Al.	3	477	20.5	30,902	27.5	989	SCHAEFER
	523P1C-3	1	3	208-230/460	3.3-3.4/1.7	Cast Al.	3	442	19.0	29,749	35.4	952	SCHAEFER
	523P112-3	1-1/2	3	208-230/460	4.7/2.3	Galv.	3	679	32.4	38,775	30.3	1241	SCHAEFER
	525P1	1	1	115/230	8.4/4.2	Galv.	5	421	21.4	31,125	32.8	996	SCHAEFER
525P1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	5	392	20.0	30,522	36.3	977	SCHAEFER	
54" Galvanized	543GP1	1	1	115/230	8.6/4.3	Galv.	3	504	22.8	34,411	41.2	920	BESS LAB
	543GP1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	3	534	25.7	36,552	38.7	920	BESS LAB
	543GP112	1-1/2	1	208-230	6.8/6.4	Galv.	3	590	31.0	40,298	29.2	1080	BESS LAB
	543GP112-HP	1-1/2	1	115/230	13.6/6.8	Galv.	3	605	33.3	41,826	28.8	1130	BESS LAB
	543GP112-3	1-1/2	3	208-230/460	4.7/2.3	Galv.	3	623	33.25	41,031	35.54	1116	SCHAEFER
	543GP112-3-HP	1-1/2	1	208-230/460	4.6-4.8/2.4	Galv.	3	623	35.1	42,657	29.4	1160	BESS LAB
	543GP2	2	1	230	9.5	Galv.	3	655	38.6	44,654	24.6	1200	BESS LAB
	543GP2-3	2	3	208-230/460	6-5.8/2.9	Galv.	3	661	39.5	45,355	26.6	1150	BESS LAB
	545GP1	1	1	115/230	8.6/4.3	Galv.	5	393	23.8	35,173	43.7	800	BESS LAB
	545GP1-3	1	3	208-230/460	3.3-3.4/1.7	Galv.	5	422	25.9	36,716	38.0	880	BESS LAB
	545GP112	1-1/2	1	208-230	6.8/6.4	Galv.	5	460	31.6	40,690	29.5	910	BESS LAB
	545GP112-HP	1-1/2	1	115/230	13.6/6.8	Galv.	5	474	33.9	41,180	30.4	930	BESS LAB
	545GP112-3	1-1/2	3	208-230/460	4.7/2.3	Galv.	5	443	31.0	40,350	35.77	993	SCHAEFER
	545GP112-3-HP	1-1/2	3	208-230/460	4.6-4.8/2.4	Galv.	5	491	36.3	42,615	28.6	980	BESS LAB
	545GP2	2	1	230	9.5	Galv.	5	512	38.5	44,999	25.4	1050	BESS LAB
545GP2-3	2	3	208-230/460	6-5.8/2.9	Galv.	5	503	38.5	44,800	27.3	1010	BESS LAB	

*Direct-Drive Model. **Two-Speed Model.

1,000 fpm = 11.4 mph = 5.08 m/sec = 18.3 km/h
1,000 cfm = 1699 m³/h = 0.472 m³/sec

Slant Wall Exhaust Fan Specifications

Fan Size	Fan Model	Rough-In Dimensions (W x H)	HP	Phase	Speeds	Voltage	Nameplate Amps	RPM @0.05"	Wings	CFM@ 0.05" S.P.	CFM/Watt	Tested
24"	245SDD12*	31-1/2" x 32"	1/2	1	1	115/230	7.0/3.5	800	5	6550	16.2	SCHAEFER
	245S12	31-1/2" x 32"	1/2	1	1	115/230	4.6/2.3	750	5	6144	13.1	SCHAEFER
	245S12-2	31-1/2" x 32"	1/2	1	2	230	2.3/1.6	723	5	5917	11.2	SCHAEFER
	245S34	31-1/2" x 32"	3/4	1	1	115/230	7.8/3.9	877	5	7179	11.1	SCHAEFER
	245S34-2	31-1/2" x 32"	3/4	1	2	115	9.3/5.3	844	5	6913	10.2	SCHAEFER
30"	303SDD12*	37-1/4" x 37-3/4"	1/2	1	1	115/230	7.0/3.5	741	3	7164	16.1	SCHAEFER
	303S12	37-1/4" x 37-3/4"	1/2	1	1	115/230	4.6/2.3	695	3	6720	13.7	BESS LAB
	303S12-2	37-1/4" x 37-3/4"	1/2	1	2	230	2.3/1.6	669	3	6471	11.5	SCHAEFER
	305S12	37-1/4" x 37-3/4"	1/2	1	1	115/230	4.6/2.3	596	5	7005	14.3	BESS LAB
	305S12-2	37-1/4" x 37-3/4"	1/2	1	2	230	2.3/1.6	574	5	6746	11.5	SCHAEFER
	303S34	37-1/4" x 37-3/4"	3/4	1	1	115/230	7.8/3.9	812	3	7852	13.5	SCHAEFER
	303S34-2	37-1/4" x 37-3/4"	3/4	1	2	115	9.3/5.3	782	3	7561	10.2	SCHAEFER
	305S34	37-1/4" x 37-3/4"	3/4	1	1	115/230	7.8/3.9	672	5	7899	13.6	SCHAEFER
305S34-2	37-1/4" x 37-3/4"	3/4	1	2	115	9.3/5.3	647	5	7607	11.5	SCHAEFER	
36"	363SDD12*	43-1/2" x 44"	1/2	1	1	115/230	7.0/3.5	573	3	9610	22.4	SCHAEFER
	363S12	43-1/2" x 44"	1/2	1	1	115/230	4.6/2.3	557	3	9340	19.1	BESS LAB
	363S12-2	43-1/2" x 44"	1/2	1	2	230	2.3/1.6	573	3	8994	16.9	SCHAEFER
	363S12-3	43-1/2" x 44"	1/2	3	1	230/460	1.0	573	3	9340	19.3	SCHAEFER
	365S12	43-1/2" x 44"	1/2	1	1	115/230	4.6/2.3	496	5	9518	19.5	BESS LAB
	365S12-2	43-1/2" x 44"	1/2	1	2	230	2.3/1.6	478	5	9166	17.4	SCHAEFER
	365S12-3	43-1/2" x 44"	1/2	3	1	230/460	1.0	515	5	9518	19.7	SCHAEFER
	363S34	43-1/2" x 44"	3/4	1	1	115/230	7.8/3.9	557	3	10,687	16.6	SCHAEFER
	363S34-2	43-1/2" x 44"	3/4	1	2	115	9.3/5.3	573	3	10,292	14.1	SCHAEFER
	363S34-3	43-1/2" x 44"	3/4	3	1	200-230/460	2.3-2.4/1.2	573	3	10,687	16.8	SCHAEFER
	365S34	43-1/2" x 44"	3/4	1	1	115/230	7.8/3.9	499	5	10,750	16.7	SCHAEFER
	365S34-2	43-1/2" x 44"	3/4	1	2	115	9.3/5.3	455	5	9852	14.2	SCHAEFER
365S34-3	43-1/2" x 44"	3/4	3	1	200-230/460	2.3-2.4/1.2	541	5	10,750	16.7	SCHAEFER	
42"	423S34	49-1/2" x 50"	3/4	1	1	115/230	7.8/3.9	580	3	13,738	20.4	SCHAEFER
	423S34-2	49-1/2" x 50"	3/4	1	2	115	9.3/5.3	559	3	13,230	14.2	SCHAEFER
	425S34	49-1/2" x 50"	3/4	1	1	115/230	7.8/3.9	480	5	13,820	19.9	BESS LAB
	425S34-2	49-1/2" x 50"	3/4	1	2	115	9.3/5.3	462	5	13,309	14.5	SCHAEFER
48"	483S1	55-1/2" x 56"	1	1	1	115/230	8.4/4.2	593	3	19,300	18.8	BESS LAB
	483S1-2	55-1/2" x 56"	1	1	2	230	5.3	571	3	18,586	17.2	SCHAEFER
	483S1-3	55-1/2" x 56"	1	3	1	208-230/460	3.2-3.2/1.6	593	3	19,300	20.0	SCHAEFER
	485S1	55-1/2" x 56"	1	1	1	115/230	8.4/4.2	420	5	18,595	20.7	BESS LAB
	485S1-2	55-1/2" x 56"	1	1	2	230	5.3	404	5	17,907	19.1	SCHAEFER
	485S1-3	55-1/2" x 56"	1	3	1	208-230/460	3.2-3.2/1.6	436	5	18,595	20.9	SCHAEFER
	483S112	55-1/2" x 56"	1-1/2	1	1	208-230	6.8-6.4	702	3	22,850	14.8	SCHAEFER
	483S112-3	55-1/2" x 56"	1-1/2	3	1	208-230/460	5.0-4.9/2.5	702	3	22,850	15.0	SCHAEFER
	485S112	55-1/2" x 56"	1-1/2	1	1	208-230	6.8-6.4	493	5	22,283	14.8	BESS LAB
	485S112-3	55-1/2" x 56"	1-1/2	3	1	208-230/460	5.0-4.9/2.5	420	5	22,283	15.0	SCHAEFER
54"	543S112G	61" x 62"	1-1/2	1	1	208-230	6.8-6.4	608	3	25,345	16.4	BESS LAB
	543S112G-3	61" x 62"	1-1/2	3	1	208-230/460	4.7/2.3	613	3	25,448	16.0	BESS LAB
	545S112G	61" x 62"	1-1/2	1	1	208-230	6.8-6.4	457	5	25,707	17.2	BESS LAB
	545S112G-3	61" x 62"	1-1/2	3	1	208-230/460	4.7/2.3	486	5	27,438	16.8	BESS LAB
	543S2G	61" x 62"	2	1	1	230	9.5	653	3	27,432	14.4	BESS LAB
	543S2G-3	61" x 62"	2	3	1	208-230/460	6.0-5.8/2.9	687	3	28,900	14.8	BESS LAB
	545S2G	61" x 62"	2	1	1	230	9.5	495	5	27,920	14.7	BESS LAB
545S2G-3	61" x 62"	2	3	1	208-230/460	6.0-5.8/2.9	521	5	29,428	15.5	BESS LAB	

*Direct-Drive Model.

Why is Cooling Important

Heat stress is a serious problem.

Like other unsafe work conditions, heat stress lowers productivity and increases accident and error rates. All of which contribute to the cost of doing business.

Productivity lost to high temperatures is well documented. As the table from NASA report CR-1205-1 indicates, when temperatures in the work environment rise to 90 degrees, output drops 29% and errors increase 300%!

Cool, comfortable work environments directly contribute to productivity, quality and profitability. Keep your employees happy & stress free!



Heat Index Chart																
Temperature (°F) vs. Relative Humidity																
	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	
115°F	111	115	120	127	135	143	151									
110°	105	108	112	117	123	130	137	143	151							
105°	100	102	105	109	113	118	123	129	135	142	149					
100°	95	97	99	101	104	107	110	115	120	126	132	136	144			
95°	90	91	93	94	96	98	101	104	107	110	114	119	124	130	136	
90°	85	86	87	88	90	91	93	95	96	98	100	102	106	109	113	
85°	80	81	82	83	84	85	86	87	88	89	90	91	93	95	97	
80°	75	76	77	77	78	79	79	80	81	81	82	83	85	86	86	
75°	70	71	72	72	73	73	74	74	75	75	76	76	77	77	78	

Heat Index / Heat Disorders	
Heat Index	Possible heat disorders for people in higher risk groups
130 or Higher	Heatstroke/sunstroke highly likely with continued exposure.
105-130	Sunstroke, heat cramps or heat exhaustion likely and heat stroke possible with prolonged exposure and/or physical activity.
90-105	Sunstroke, heat cramps and heat exhaustion possible with prolonged exposure and/or physical activity.
80-90	Fatigue possible with prolonged exposure and/or physical activity.

Source: National Weather Service

NASA Report CR-1205-1:

Effective Temperature	75°	80°	85°	90°	95°	100°	105°
Loss of Work Output	3%	8%	18%	29%	45%	62%	79%
Loss in Accuracy	-	5%	40%	300%	700%	-	-

Safe working conditions keep workers' compensation rates down while minimizing disruptions and down time. As illustrated above, errors increase which may compromise good safety practices leading to more accidents. Low morale can be direct result of heat stress in the workplace. Low morale causes high employee turnover, absenteeism and work slow-down. Businesses cannot afford the costs of temporary employees to make up for lost productivity caused by heat stress.

Today's managers & supervisors should be trained to watch for signs of heat stress. Personal protective equipment including fans, appropriate rest periods, liquids and modified work practices can reduce the risk of heat stress. Employees must understand the need to replace fluids and salt while watching for signs of dehydration, fainting, heat cramps, heat exhaustion and heat stroke.

Schaefer Ventilation Equipment Limited Warranty

Schaefer Ventilation Equipment, LLC (SVE) 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 two-year limited warranty applies to all products, components and assemblies provided by SVE 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 SVE's option.
 - Defective products shall only be returned to SVE with the approval of SVE and at customer's expense.
 - Replacement products or repair parts will be shipped to customer at SVE 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 vary from SVE's operating instructions.
 - iii. Misuse, abuse, negligence, alteration, or accident.
 - iv. Damage incurred while transporting the product.
 - v. Lack of appropriate or regular maintenance of the product.
 - 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. Products with warranty periods that differ from the standard 2-year warranty are as follows:
 - Polyethylene Exhaust Fan Housings..... 25 years
 - Fiberglass Exhaust Fan Housings 15 years
 - RV3000 Ridge Inlet & Vent..... 10 years
 - Low Intensity Radiant Heater Burner Core 5 years
 - Low Intensity Radiant Heater Heat Exchange Tubes..... 5 years
 - Washdown Duty Fans with VWD motors..... 3 years
 - Washdown Duty Fans with EWD motors..... 1 year
 - Inflation Blowers (Standard) 1 year
 - Inflation Blowers (Economy) 180 days
 - HotZone®, K-Series and Other High Intensity Radiant Gas Heaters 1 year
 - Zubri™ Portable Heaters 1 year
 - Shutter Motors 1 year
 - Evaporative Cooling Pads..... 180 days
 - HotZone® Electric Elements 120 days
 - Quartz Heater Bulbs 90 days
 - Tuff & Gusty™ Fans, Blowers and Dryers 90 days
 - Any product or part as noted as being an exception to the standard two-year warranty in the product's operating manual.

Schaefer Ventilation reserves the right to add or delete products from this exception list at any time.

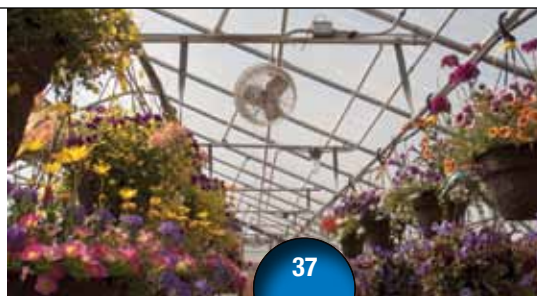
THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS OF USE.

Schaefer Ventilation reserves the right to change product design and specification without prior notice or liability.

The above constitutes the sole warranty offered by Schaefer Ventilation Equipment, LLC.

• 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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