

# ***SUPER VAC***

***THE VENTILATION SPECIALISTS***

## **i-Line**

### **Industrial Fans & Accessories**

Manufactured in the U.S.A.



- Power Plants
- Water Systems
- Sewer Systems
- Refineries
- Chemical Plants
- Industrial Facilities
- Shipyards
- Construction
- Tanks
- Silos
- Steel Mills
- Work Space Cooling
- Machine Cooling



**SUPER VAC**

Fort Collins, CO

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# i-Line by Super Vac

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Ventilation is important to any industrial environment as it is the number one way in controlling exposure to airborne toxic chemicals or flammable vapors. This is done by exhausting contaminated air away from the area and replacing it with clean air. Super Vac manufactures industrial quality ventilation products. With over 50 years experience in this industry, Super Vac fans and PPVs are time tested and energy efficient.

Machine and workplace cooling are also important aspects in any industrial work environment. Maintaining expensive equipment and keeping working environments under control can save companies money. Super Vac has a full line of fans and environment controlling products along with a full line of accessories.

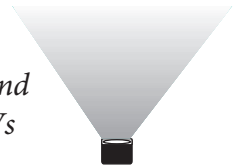
## The Super Vac Advantage

What sets Super Vac apart from its competitors? The answer is the blades. This may be the most important component of cooling and ventilation products. Super Vac has its own foundry where they create their own patented blade, designed to ensure that ejected air and fumes will not re-enter the workspace. They use only the toughest aircraft alloys to ensure quality. Their spiraled blade provides more punch into stagnant air mass than the chopper style blade which pushes a wider mass of air. The blades are the heart of ventilation and cooling machines and Super Vac's blades are second to none.

*Airflow of the  
spiraled blade found  
on Super Vac fans*



*Airflow of the  
chopper blade found  
on Super Vac PPVs*



## Industrial Blowers/Exhausters vs Industrial PPV Fans

Everybody is probably familiar with fans, but what exactly is a PPV fan? PPV stands for Positive Pressure Ventilation. The difference between an industrial blower/exhauster and an industrial PPV is the path of the airflow (*See Above*).

PPVs have a much wider outflow which is good for general ventilation and larger areas. They are able to put the right amount of pressure in the area to let contaminated air escape through strategically placed exit points as clean air enters the space.

Blowers / Exhausters have a much more concise direct air flow. They also have the ability to perform both negative and positive pressure ventilation because of the unique blade design. This is ideal when ventilating confined spaces or using ducts. These fans are also the best choice for machine cooling and workplace cooling.

## Custom Products

Not all ventilation schemes can be the same. If you have any issues that can not be properly addressed with any of the standard products, Super Vac can build a custom fan or PPV for you. They have their own R&D department and a team of engineers to solve all types of ventilation issues. No matter what type of industry or how simple or complex a fan you may need, Super Vac can help find the perfect product for you. *See page 8.*

## Motors Overview

i-Line fans can come with a variety of motors, including TEAO, 3-phase, hazardous location, variable speed, and compressed air. The efficient design of these fans includes Super Vac's patented blade which produces a much greater intake of air into the vacuum side, eliminates turbulence at the tips, and provides a high velocity screw action that sweeps air back over the motor.

PPVs (shown below) come in TEAO, hazardous location, variable speed, or even gas engines. Engines range from 5-10 Hp in models from Honda and Briggs & Stratton.



### TEAO

TEAO stands for Totally Enclosed Air Over. TEAO motors are designed to be used solely in the airstream of the fan or blower which they are driving, which in turn cools the motor. They have a dust-tight cover and an aerodynamic body.



### Hazardous Location

Hazardous location motors feature an intrinsically safe explosion proof motor paired with an explosion proof switch. These motors offer the highest level of protection in the industry and are listed for Class 1 Group D.



### Variable VR-3

The VR-3 models provide precise control of the air movement and up to 35% more airflow than single speed electric PPVs. The VR-3 is the only variable speed fan in the industry that will run on GFCI circuits and new hydraulic generators without surging at high speed.

i-Line fans have a use in all types of industrial environments including:

- Refineries
- Steel Mills
- Ship Hulls
- Chemical Plants
- Utility Companies
- Airports

### Hazardous Location

Most models can also be produced for hazardous locations (E-Models). E-Models feature a conductive aluminum blade for the highest level of explosion protection.

*E-Models will have slight weight increase.*

All Super Vac Electric fans and PPVs can be wired for 220 Volt operation on request.

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# i-Line Industrial Blowers / Exhausters

Super Vac's i-Line fans are of industrial quality and can be used for ventilation, machine cooling, and workspace cooling. Fans are offered in a size range from 12" to 24" in diameter.

## F Series

The F series is the perfect combination of a low noise, high output design. The larger sizes are perfect for your bigger requirements including machine cooling and larger spaces. Hazardous Location and three-phase motors are available. *Note: F244i and F244Ei requires a 20 amp circuit to start and run on 115 V.*

### Standard Motors

Model	Size	Motor	Voltage	Amps	RPM	Weight	Airflow Output
F124i	12"	.33 Hp TEAO	115/230	5.8/2.9	1725	40 lbs	2500 CFM
F164i	16"	.33 Hp TEAO	115/230	5.8/2.9	1725	44 lbs	5200 CFM
F200i	20"	1 Hp TEAO	115/230	12/6	1725	85 lbs	9500 CFM
F244i	24"	1.5 Hp TEAO	115/230	20/10	1725	110 lbs	10,000 CFM

### Hazardous Location Motors

Model	Size	Motor	Voltage	Amps	RPM	Weight	Airflow Output
F124Ei	12"	.33 Hp Haz Loc	115/230	5.8/2.9	1725	44 lbs	2500 CFM
F164Ei	16"	.33 Hp Haz Loc	115/230	5.8/2.9	1725	47 lbs	5200 CFM
F200Ei	20"	1 Hp Haz Loc	115/230	12/6	1725	90 lbs	9500 CFM
F244Ei	24"	1.5 Hp Haz Loc	115/230	20/10	1725	118 lbs	10,000 CFM

### 3-Phase Motors

Model	Size	Motor	Voltage	RPM	Weight	Airflow Output
F164Gi	16"	.33 Hp TEAO	230/460	1725	44 lbs	5200 CFM
F164Ti	16"	.33 Hp Haz Loc	230/460	1725	47 lbs	5200 CFM
F200Gi	20"	1 Hp TEAO	230/460	1725	85 lbs	9500 CFM
F200Ti	20"	1 Hp Haz Loc	230/460	1725	91 lbs	9500 CFM
F244Gi	24"	1.5 Hp TEAO	230/460	1725	110 lbs	10,000 CFM
F244Ti	24"	1.5 Hp Haz Loc	230/460	1725	118 lbs	10,000 CFM

## VF Series

The VF Series models provide precise control of the air movement and up to 30% more air flow than the single speed electric fans. Full digital control of the fan speed with a reversing function and compatibility with GFCI circuits make these units highly versatile.

Model	Size	Motor	Voltage	Amps	RPM	Weight	Airflow Output
VF124i	12"	1 Hp Variable	115/230	12/6	0-2400	40 lbs	3100 CFM
VF164i	16"	1 Hp Variable	115/230	12/6	0-2400	52 lbs	5900 CFM
VF200i	20"	1 Hp Variable	115/230	12/6	0-1900	88 lbs	9800 CFM

# HF Series

The HF Series are the most powerful fans that can easily be used for negative or positive pressure ventilation. Running at 3500 rpm, they have the power to force or pull air deep into a structure or underground vault. Also available in hazardous location model. *Note: HF164i requires a 20 amp circuit to start and run on 115 V.*

## Standard Motors

Model	Size	Motor	Voltage	Amps	RPM	Weight	Airflow Output
HF124i	12"	.5 Hp TEAO	115/230	8/4	3450	40 lbs	3700 CFM
HF164i	16"	1.5 Hp TEAO	115/230	17/9	3450	44 lbs	9620 CFM

## Hazardous Location Motors

Model	Size	Motor	Voltage	Amps	RPM	Weight	Airflow Output
HF124Ei	12"	.5 Hp Haz Loc	115/230	8/4	3450	45 lbs	3700 CFM
HF164Ei	16"	1.5 Hp Haz Loc	115/230	17/9	3450	49 lbs	9620 CFM

# AF Series

The AF Series is the most effective air powered fans available. Complete with their own filter, gauge, and oiler, they have everything you need for lots of air movement without a lot of air usage.

Model	Size	Motor	Pressure	RPM	Weight	Airflow Output
AF124i	12"	.5 Hp Air	80 PSI at 20 CFM	3500	39 lbs	3800 CFM
AF164i	16"	1.75 Hp Air	100 PSI at 70 CFM	3600	45 lbs	9600 CFM
AF200i	20"	1.75 Hp Air	100 PSI at 70 CFM	1900	60 lbs	9800 CFM
AF244i	24"	5 Hp Air	100 PSI at 175 CFM	2500	105 lbs	14,200 CFM

*F Series*

*AF Series*

*VF Series*

*HF Series - with optional tilt frame attachment*



# i-Line Electric & Gas PPV

Super Vac's electric PPV fans allow clean air positive pressure ventilation with power options that are right for your industry. Electric motors provide the ultimate output with no engine noise or exhaust fumes. These motors come in Standard, Variable Speed and Hazardous Location models. All units are designed to provide the maximum airflow out of a 1 HP motor that can be safely plugged into any standard 15 amp wall socket. All Super Vac electric fans can be wired for 220 volt operation on request.

Gas powered units are available in Honda (Commercial Engine or GX model) and Briggs & Stratton engines. They range from 5 Hp to 10 Hp giving you options to find the perfect engine for your job.

## Electric

Model	Size	Motor	Weight	RPM	Airflow Output
716E2i	16"	1 Hp TEAO	67 lbs	1750	6740 CFM
716EXPi	16"	1 Hp Haz	70 lbs	1750	6740 CFM
716VR3i	16"	1.25 Hp Var	64 lbs	2500	9950 CFM
718E2i	18"	1 Hp TEAO	86 lbs	1750	8140 CFM
718EXPi	18"	1 Hp Haz	91 lbs	1750	8140 CFM
718VR3i	18"	1.25 Hp Var	83 lbs	2400	12,820 CFM
720E2i	20"	1 Hp TEAO	87 lbs	1750	10,190 CFM
720EXPi	20"	1 Hp Haz	92 lbs	1750	10,190 CFM
720VR3i	20"	1.25 Hp Var	84 lbs	2400	15,110 CFM
724E2i	24"	1 Hp TEAO	102 lbs	1750	13,320 CFM
724EXPi	24"	1 Hp Haz	107 lbs	1750	13,320 CFM
724VR3i	24"	1.25 Hp Var	107 lbs	2400	16,370 CFM



718E2i - with optional Light Kit

## Gas

Model	Size	Engine	Weight	RPM	Airflow Output
716G4i-B	16"	3.5 Hp Briggs & Stratton	60 lbs	3450	9940 CFM
716G4i-H	16"	4 Hp Honda GX	62 lbs	3575	11,740 CFM
716GCi	16"	5 Hp Commercial Honda	62 lbs	3520	10,230 CFM
718G4i-B	18"	6.5 Hp Briggs & Stratton	79 lbs	3770	15,350 CFM
718G4i-H	18"	6.5 Hp Honda GX	82 lbs	3535	15,590 CFM
718GCi	18"	5 Hp Commercial Honda	74 lbs	3360	14,810 CFM
720G4i-B	20"	6.5 Hp Briggs & Stratton	89 lbs	3385	18,060 CFM
720G4i-H	20"	6.5 Hp Honda GX	92 lbs	3350	18,580 CFM
720GCi	20"	5 Hp Commercial Honda	84 lbs	3185	17,650 CFM
724G4i-B	24"	10 Hp Briggs & Stratton	119 lbs	3245	21,100 CFM
724G4i-H	24"	9 Hp Honda GX	133 lbs	3435	20,920 CFM

# i-Line Specialty Industrial Fans

Super Vac makes models for all types of jobs, big and small, as well as addressing many of the toughest challenges in ventilation. Super Vac can also custom make an i-Line fan to meet your ventilation and air movement needs.

## Nano Series

The Nano Series is the perfect, cost effective solution to confined space ventilation challenges. With an 8" diameter, this rugged fan can either supply air or exhaust ventilation, while delivering the highest airflow in its class. Also available with a hazardous location motor.



Nano P8Si

Model	Motor	Height	Width	Depth	Weight	Airflow Output
Nano P8Si	.33 Hp TEAO	11.5"	10.75"	16"	20 lbs	1037 CFM
Nano P8XE	.33 Hp Hazardous Location	11.5"	10.75"	16"	22 lbs	1037 CFM

*Note: CFM calculated with Free Air  
with (1) 90 degree bend in duct - airflow is 817 CFM  
with (2) 90 degree bends in duct - airflow is 723 CFM*

### Available in Packages:

NanoPac15i	P8Si Fan & 15 feet of duct for Standard Ventilation
NanoPac25i	P8Si Fan & 25 feet of duct for Standard Ventilation
NanoPacXE15	P8XE Fan & 15 feet of Static Dissipating Duct
NanoPacXE25	P8XE Fan & 25 feet of Static Dissipating Duct

*Nano P8Si with 15 feet of duct  
for Standard Ventilation*



## Tilt Stand Fan

Super Vac's Tilt Stand Fan is perfect for elevating the fan airstream to a higher level. The robust design prevents tipping with it's wide stance. Airstream can be positioned in 18 degree increments from blowing straight up to blowing straight down. Super Vac builds the Tilt Stand Fan with your choice of purchased industrial fan (page 4 and 5) and can be built with any additional cord length, giving you a ventilation system that is truly custom for your needs.

Model	Fan Size	Cord Length	Weight
TS-124	12"	10'	38 lbs
TS-164	16"	10'	42 lbs
TS-200	20"	10'	56 lbs
TS-244	24"	10'	64 lbs



*Tilt Stand Fan  
with F164i*

Fort Collins, CO

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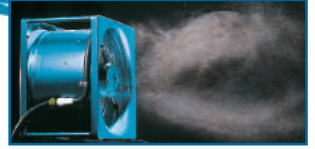
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# Mister Fan 164

The mister fan produces a cooling mist that reduces air temperature through evaporation. Unlike other misting units that can only be used a few times, this fan continues to reduce the effect of heat for years. Perfect for increasing comfort during extended summertime operations.



Model	Water Requirements	Height	Width	Depth	Weight	Airflow Output
F164Mi	2 gph	19.75"	18.75"	13"	41 lbs	5200 CFM

# Heat Pac 25

The HeatPac 25 packs enough power to keep any environment comfortably warm in the harshest of winters. It will provide over 70,000 BTU's of heat for over a 10 hour period when connected to a standard propane tank. Includes 8" fan, heater, regulator, 25 feet of duct, and canister.



Model	Requirements	Height	Width	Depth	Weight	Output
HEATPAC25	Propane - 2 lbs/hour	15.25"	33"	13.5"	50 lbs	80° of temp rise @ 500 CFM

# Aircraft Brake Cooling Fan

Super Vac's Brake Cooling Fan is a specialized unit designed to pull air over the brakes of commercial airliners. The special seal contacts the wheel of the plane, while the powerful fan pulls cooling air past the brake pads.

Model	Fan Size	Motor/Engine	Weight
724BCS	24"	1 Hp TEAO Motor	108 lbs
724BCV	24"	1 Hp Variable Speed Motor	105 lbs
724BCE	24"	1 Hp Haz Loc Motor	110 lbs
724BCH	24"	4 Hp Honda GX Engine	103 lbs

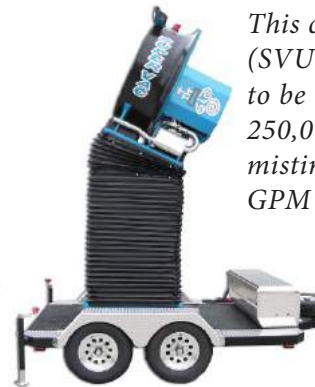


724BSC

# Custom Fans

Super Vac can create custom fans for any of your cooling or ventilatio needs. No matter the size or application, Super Vac is here to help. Contact Super Vac today to discuss your special project.

*This custom fan (TMV-40) was built to be mobile, run at a low decibel level, and to provide 15,000 CFM through an 18" x 25' duct at 5-inch static pressure.*



*This custom fan (SVU-50) was built to be mobile, provide 250,000 CFM while misting water at 30 GPM at 60 PSI.*



Super Vac makes accessories for all model fans in the i-Line to ensure that you are getting the most out of your industrial fan or PPV.

## Spiral Duct

This is the highest quality duct made with heavy duty wear strips and two-ply construction. It is ideal for moving large quantities of air into hard to reach places. All ducts come with bag and are available with an adapter or as an extension.



### With Adapter:

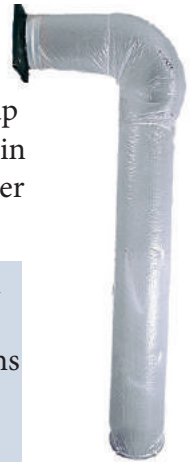
Model	Diameter	Length	Weight
12x20AD	12"	20 ft	35 lbs
16x20AD	16"	20 ft	38 lbs
20x20AD	20"	20 ft	49 lbs
24x20AD	24"	20 ft	76 lbs

### As an Extension:

Model	Diameter	Length	Weight
12x20BC	12"	20 ft	30 lbs
16x20BC	16"	20 ft	34 lbs
20x20BC	20"	20 ft	48 lbs
24x20BC	24"	20 ft	72 lbs

## Translucent "L" Duct

The "L" Duct is an extremely useful duct that is held open by air pressure from the fan. It folds up to take very little space when not in use. Once deployed, men and equipment can pass by easily in cramped spaces by simply collapsing the duct. The 12" and 16" ducts come attached to an adapter that clips easily onto any fan.



Model	Diameter	Horiz Length	Vert Length	Weight
LD08	8"	3 ft	8 ft	5 lbs
LD12	12"	3 ft	8 ft	10 lbs
LD16	16"	3 ft	8 ft	12 lbs

Ducts can be special ordered to any diameter with lengths up to 25' x 20' to fit your needs.

## Flame Resistant Duct

This patent pending duct is constructed of a high quality, flame resistant, chemically stable material. It is designed to save space, and is collapsible allowing workers and equipment to pass by easily in tight spaces. Once something has passed through, the duct expands back to full air capacity.

Model	Diameter	Horiz Length	Vert Length	Weight
LFR08	8"	3 ft	8 ft	8 lbs

*Fan not included. LFR08 attaches only to Nano 8" fans.*



# Mountain Mister

The Mountain Mister converts any fan into a cooling rehab fan by easily attaching to the outlet guard. Save money and space while reducing the effects of heat.



Model	Compatible Fans	Water Usage	Weight
MM164	Any Super Vac Fans	3 gallons/hour	3 lbs

# High Expansion Foam Generator

The High Expansion Foam Generator is capable of producing foam up to an expansion rate of 1000:1 for tough extinguishments including flammable liquids, mining operations, and ship hold areas. It attaches to any Super Vac PPV or fan and includes a 30 GPM inline educator, metal shroud, and foam expansion netting.



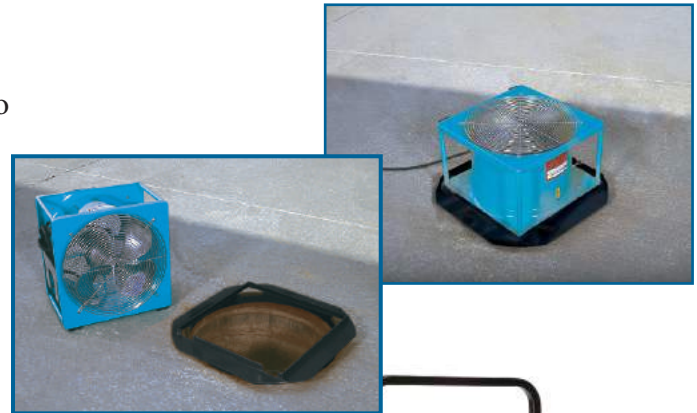
Model	Compatible Fans	Flow Rate
HXG-16	Any 16" or smaller PPV or Fan	200:1 - 1000:1
HXG-18	Any 18" or larger PPV or Fan	200:1 - 1000:1

Please specify PPV or fan when ordering

# Manhole Adapter

These rugged, aluminum adapters sit in manhole rings to provide a stable mounting surface for 12" or 16" fans.

Model	Fan Size	Manhole
MA12-24	12"	24"
MA12-30	12"	30"
MA16-24	16"	24"
MA16-30	16"	30"



# Light Kit

The light kit can turn any electric PPV into a 350 Watt light. The light kit attaches easily to any existing Super Vac PPV. It saves manpower from setting up separate lighting tripods. It folds down with handle for easy storage.

Model	Compatible Fans	Watts	Weight
LKT-EPPV	Any Super Vac Electric PPV	350	6 lbs

Please specify PPV when ordering



# WB Brackets

Use WB Brackets with pipe and 2x6s for stringers and create custom storage racks for tires, hose, and much more. Limit of five foot maximum between WB brackets.

Model	Compatible Pipes
WBS	for 1.5" Pipe
WBL	for 2" Pipe



# Tilt Frame

This bracket will help you point airflow precisely in any direction at any angle. It easily retrofits onto an existing Super Vac i-Line fan. It allows for quick setup and effortless tilting of the fan in any direction.

Model	Compatible Fans
TF124	12" Super Vac Fans
TF164	16" Super Vac Fans



# Hanger Set

Hangers allow you to put your Super Vac Fan almost anywhere; on doors, ladders, windows, casements, archways, etc. Used in conjunction with the Door Bar, they permit placing at any height.

Model	Compatible Fans
HR	All F, HF, VF, AF series i-Line Fans



# The Door Bar

Hang Super Vac fans in any doorway at a height that you choose with the Door Bar. It is quick and easy to install and releases instantly with the pull of a trigger. Extension bars come standard to fit in nearly any doorway.

*Hangers sold separately*

Model	Weight	Usable Range
DOOR BAR	13 lbs	26" - 60" with extensions



## About Super Vac

Super Vacuum Manufacturing Company, Inc. is the world leader in the manufacturing of ventilation products. These products are sold to industries throughout the United States and around the world. Super Vac is headquartered in Fort Collins, Colorado.

Super Vac (originally the Super Vacuum Propeller Company) was established in the mid 1930's. The name Super Vac, seemingly a misnomer, was coined as a result of the forceful vacuum created by the ventilators. The name has become synonymous with the highest quality ventilation products for industrial use.

Super Vac manufactures electric, gasoline, hydraulic, and air powered units for the wide array of use seen in industrial situations, including man and machine cooling, smoke and fume removal, painting, sand blasting, and fresh air supply. Super Vac has designed state of the art ventilators to be used in confined spaces. Our engineering facilities include an air test chamber built to AMCA Standard 210 and 240 for accurately measuring and maximizing the air performance of our ventilators.

The United States Navy chose Super Vac to supply them with special smoke ventilators to be used on board ships during emergency situations. The design of these units has been accomplished jointly by NAVSEA engineers and Super Vac engineers and will greatly reduce injuries related to the ventilation of ships and compartments. The smoke ventilators are part of a general effort to modernize Navy fire fighting and rescue activities. The contract required Super Vac and our suppliers to institute strict quality control measures and detailed documentation procedures to insure the units will handle the extreme conditions the ventilators will experience aboard the ships.

In 1986, Super Vac purchased a non-ferrous foundry in order to provide more control over the quality in the manufacturing process. This allows us to cast our own blades, parts, and accessories for the ventilators.

In 2012, The Gatwick Airport in England contacted Super Vac to have them build a fan for emergency situations. Super Vac supplied an SVU-50 to the airport which has the ability to provide 250,00 CFM and 30 GPM or mist simultaneously. This fan is planned on also being used to help keep large crowds cool during the London Olympic Games.



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