

*TEMPEST*TM TECHNOLOGY



Fire Safety & Rescue Equipment

TEMPEST POWER BLOWERS
VENTMASTER FIRE RESCUE SAWS
MOBILE VENTILATION UNIT

"It's about firefighter safety"

Since 1987, Tempest Technology Corporation has been a leader in the development of innovative ventilation tools for fire fighting and industrial work environments. In the beginning, Tempest produced inflator fans for hot air balloonists and now manufactures a wide variety of ventilation tools used by fire fighters around the world to make their work atmospheres safer.



The technique of Positive Pressure Ventilation (PPV) has revolutionized the way hazardous interior environments are controlled and ventilated. Whether the structure is a 1,000 square foot home, 30-story building or a mile-long tunnel, Positive Pressure Ventilation can be used to quickly replace a hostile interior environment with clean, fresh air.

Tempest offers a comprehensive line of gasoline, electric and hydraulic powered blowers designed for a variety of emergency ventilation applications. Additionally, the Tempest VentMaster fire rescue saws and Raptor carbide chains are used by thousands of fire departments around the world for vertical ventilation operations.

All Tempest product lines are distributed through a global network of dealers selected for their industry knowledge, professionalism and commitment to customer service. The Tempest dealer network includes the top equipment dealers, installers and apparatus manufacturers in each market we serve.

Tempest Technology team members are committed to providing our customers and end users with the highest level of service and support. We take tremendous pride in our products and the role they play in enhancing safety for people who make their living working in hazardous interior environments.



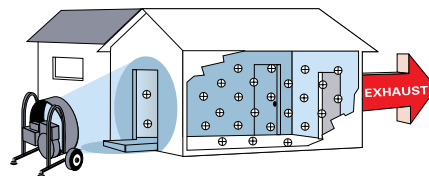
Positive Pressure Ventilation (PPV)

Protecting personnel from hazardous environments is vital. Ventilating smoke, heat and toxic gases from burning buildings and rescue scenes provides a safer work environment.

How PPV Works

In a typical PPV application, the blower is placed approximately four to ten feet from the doorway of a structure. It is positioned so a “cone of air” is produced by the blower, completely sealing the opening. Once the doorway is sealed, air pressure inside the structure builds almost instantly. An exhaust opening, usually a rear door or window, allows the air to quickly escape due to the difference between the outside and inside air pressure. The smoke, fumes and other contaminants are quickly cleared and replaced with clean, fresh air.

The Tempest Power Blower’s unique shroud design creates the “cone of air” that is essential for PPV to work. Additionally, the multiple blades of our AirFlex Impeller create the pressure required to move air out.



How PPV Provides Increased Safety For Firefighters

- Smoke and heat are significantly reduced allowing firefighters to enter structures upright in some cases.
- Visibility is improved making it easier to locate victims and find the seat of the fire.
- The level of CO and other toxic gases released from burning synthetics are reduced.
- PPV reduces the chance of flashover.

Confined Spaces

PPV can ventilate micro-environments, such as tanks, pipelines and tunnels, by using the massive air velocity produced by the blower to force out stagnant air and replace it with fresh, cool air.

Aircraft Fires

PPV offers the fastest and most effective method for clearing smoke, heat, and gases from passenger and cargo aircraft. The interior of an aircraft can be ventilated in only 60 to 90 seconds, improving evacuation procedures and allowing rescue personnel faster, safer entry.

Training Systems



Each training kit includes a CD, PPA video and ten student workbooks.

PPV Training System

Tempest created one of the first PPV training programs and still one of the best. The Tempest PPV training system is an integrated curriculum designed and written by Dr. Timothy Brady, of California State University, and based on the experience and knowledge of over 20 industry professionals. It includes an orientation manual by John Mittendorf, Battalion Chief (Ret.) of the Los Angeles Fire Department and other industry professionals, an instructors manual for basic and advanced PPV applications, six videos, student workbooks, instructional overhead transparencies and presentation images on CD.

PPA (Positive Pressure Attack) Training System

Take Positive Pressure Ventilation (PPV) training to the next level. “PPA: Positive Pressure Attack” is an auto-run Power Point program based on the popular training classes by Battalion Chief Kriss Garcia and Battalion Chief Reinhard Kauffmann of the Salt Lake City, Utah, Fire Department. Two versions of the program, designed for classroom presentations or independent study, can be accessed on this CD. Both versions offer valuable information on the applications of PPV, both for overhaul and as an attack tool. Information in this program was derived from more than 12 years of study, testing and experience in the application of Positive Pressure Attack. A section titled “20 Burning Questions” helps answer the most frequently asked questions and misconceptions concerning Positive Pressure Ventilation and Positive Pressure Attack.

Mobile Ventilation Unit (MVU™)

The Tempest Mobile Ventilation Unit is the next step in the evolution of PPV as a revolutionary firefighting tool, allowing for fast and controlled ventilation of large structures. The MVU makes it possible to quickly remove smoke, heat and gases from high-rise buildings, subway tunnels, aircraft and large commercial structures.

MVU Applications

ARFF Operations: Remove smoke, heat and gases from passenger terminals, large frame aircraft, airport hotels and tunnels.

High Rise Smoke Evacuation: Clear stairwells to create unobstructed paths for evacuation and first responder access. Ventilate underground floors and parking areas from ground level.

Large Commercial Structure Fires: Control smoke migration in box stores, shopping malls and warehouses to enhance safety of first responders and reduce potential property loss.

Emergency Tunnel Ventilation: Support fixed ventilation systems or control heat and smoke when no fixed ventilation is available. Ventilate subway tunnels from above ground positions.

Manufacturing Facilities/Warehouses: Minimize disruption of operations caused by small fires or chemical releases by quickly controlling and removing heat and gases.

Mass Decon/Hazmat Ventilation: Utilize MVU misting capabilities to knock down gases, dilute chemical agents and decontaminate personnel and equipment.

MVU™
MOBILE VENTILATION UNIT

Why purchase a Tempest Mobile Ventilation Unit?

Tempest built the first Fire MVU in 1996 and is the leader in the design and application of large diameter mobile ventilation tools. With over 70 units in service around the world, Tempest has the experience and knowledge to provide the right Mobile Ventilation Unit for your specific application. In addition, Tempest offers the necessary support and training to ensure every MVU is operated safely and effectively.

Request a free CD-ROM that includes the following information:

- Real life incident reports
- Test reports
- MVU in Action Videos
- Specifications and pricing
- Customer and reference lists

(see back cover for contact information)



Tempest offers three MVU models to meet your ventilation needs

MVU-48

The **MVU-48** features a 48" diameter ventilator and is powered by a 130hp Cummins diesel engine. The diesel engine powers a hydraulic system that drives the ventilator, scissor lift, rotation and tilt. The MVU-48 generates 130,000 cubic feet of air per minute (221,000 m³/hr). Weight: 8,000 pounds.



MVU-60

The **MVU-60** features a 60" diameter ventilator. The 130hp Cummins diesel engine powers a hydraulic system that drives the ventilator, scissor lift, rotation and tilt. The MVU-60 generates 150,000 cubic feet of air per minute (255,000 m³/hr). Weight: 12,000 pounds.

MVU-125

The **lightweight MVU-125** features a 48" diameter ventilator and is powered by a 100hp Ford engine. Its belt-drive system and carbon fiber impeller allow the MVU-125 to generate 125,000 cubic feet of air per minute (212,000 m³/hr). Weight: 800 pounds. Unit may be mounted directly to a skid, trailer or apparatus.



Any Tempest MVU can be ordered with these options:

Scissor Lift: For ventilation over obstructions and into above-ground ventilation openings.

Ventilator Rotation: For precise lateral control of air pattern for effective PPV.

Ventilator Tilt: For directing air pattern upward or into below-ground openings.

Misting System: Introduce water or water additives into the air stream for cooling and mass decontamination.

Contact Tempest Technology or your local Tempest Dealer for detailed specifications and pricing. On-site demonstrations are available.



World Class Blowers from Tempest!

Tempest Power Blowers Feature Flip-Up / Fold-Down Handles, Off-Road Tires, Foot Operated PPV Tilt Adjustment and AirFlex Impellers to simplify operator handling and improve performance.

AirFlex Composition Impeller

Regardless of motor horse power, these uniquely designed impeller "wings" deliver maximum air volume (cfm), velocity and pressure from each Tempest Power Blower. See page 17 for more information.



Off-Road Tires. No Brakes to Lock.

Extra wide 9" off-road pneumatic tires allow easy movement up and down stairs, over curbs and large diameter hoses, as well as through rough or muddy terrain. No brakes to forget to lock down or unlock. Blower rests on firm, anti-vibration rubber feet for stability. "Walking" or movement of blower while in operation is eliminated. Risk of getting clothing in blower blades while kneeling to set brake levers is eliminated. (16" blowers standard with hard rubber tires, off-road tires installed by request at no additional charge)



Safety Grill

Front and rear safety grills feature a continuous spun wire body with eight tie point bars that also support the "Turbo 2000" shroud integrity. Meets strict European CE Safety Standards.

Turbo 2000 Shroud

By redesigning the inward curve and front of the shroud, the Turbo 2000 increases air velocity by up to 30%. The air hitting the ventilation opening is stronger and maintains PPV pressure farther downwind than before.



World Class Quality

Since 1987, Tempest Technology has been known for manufacturing the finest power blowers on the market.



Flip-Up and Fold-Down Handle

Exclusive full-width handle design makes pushing or pulling a blower to and from the ventilation site quick and easy. The handle quickly swings up to a comfortable height and automatically locks firmly into position. The single, push-button handle release requires only thumb/forefinger pressure to activate, allowing one handed fold down for storage. Folded handle adds no additional dimensions to the stored blower. (16" gas blower has telescoping "pull up" handle.)



Strong, Light-Weight Frame

Every bend and cross brace weld is structurally engineered to give the blower frame more strength and durability than most larger tubing that can weigh as much as 30% more.



Patented "Winning Step" Foot Operated Tilt Adjustment

No levers to set or knobs to tighten when setting angles for PPV. Foot operated adjustment is quick, easy and secure. Four back and one forward position.

Front "KickStep"

The front "KickStep" pedal allows the operator to tilt the blower forward effortlessly with one foot.



The Right Size and Right Engine for any Job

Tempest Power Blowers are available in size 16", 18", 21", 24" and 27" blade diameters. CARB approved gasoline powered engines available by Honda, Tecumseh or Briggs & Stratton. Electric motors available in Single Speed, Variable Speed and Explosion Proof. See pages 6 - 9 for more details. Hydraulic Driven engines available by special order.

Tempest Gasoline Power Blowers



Tempest Gasoline Power Blowers provide more horsepower than electric blowers. The increased air velocity, higher air volume, and higher air pressure provided by a gasoline blower result in faster ventilation. Setup is faster with no power cord lays or generators to crank.

Belt-Drive Gasoline Power Blowers

A Tempest Belt-Drive is the original PPV Power Blower and still the best for fire department applications. Offering the stability, durability and reliability that todays fire departments require, the Tempest Belt-Drive is the "Cadillac" of PPV blowers. Available in 18" to 27" diameter sizes, Tempest Belt-Drive blowers offer a superior combination of performance, durability and stability.

- Belt-Drive systems help absorb engine vibration, preventing the blower from "walking" during operation on smooth surfaces.
- The Belt-Drive pulleys are tuned to precisely match the horsepower and torque of the engine, maximizing performance.
- Belt-Drives allow the engine to be set lower in the frame, improving stability and minimizing disruption of the airflow.



Model	Part #	Size	Engine, HP	CFM	RPM	Width	Depth	Height	Weight
BD 18-T-5.5	700-001	18"	Tecumseh, 5.5	10,903	4,070	21.50"	21.00"	24.25"	79 lbs.
BD 18-H-5.5	700-103	18"	Honda, 5.5	15,023	3,870	21.50"	21.00"	24.25"	85 lbs.
BD 21-T-5.5	700-003	21"	Tecumseh, 5.5	18,673	3,350	25.00"	22.00"	26.25"	87 lbs.
BD 21-H-6.5	700-021	21"	Honda, 6.5	17,743	3,125	25.00"	22.00"	26.25"	93 lbs.
BD 24-T-5.5	700-006	24"	Tecumseh, 5.5	17,314	3,190	28.25"	22.00"	31.00"	86 lbs.
BD 24-H-6.5	700-020	24"	Honda, 6.5	18,130	3,175	28.25"	22.00"	31.00"	92 lbs.
BD 27-H-9.0	700-268	27"	Honda, 9.0	23,943	2,672	30.50"	23.50"	32.50"	155 lbs.

Direct-Drive Gasoline Power Blowers

Tempest Direct-Drive blowers evolved from the "Controlled Airstreams" line of durable PPV blowers; the first direct-drive PPV's and still the best. Available in 16" to 24" diameter sizes, there is a Tempest Direct-Drive to match your budget and compartment space. For the best combination of performance, compact size and light weight, choose a Tempest Direct-Drive.

- The impeller is mounted directly to the engine shaft, reducing the blowers overall weight.
- Vibration problems that are common to most direct-drive blowers have been minimize with the use of overhead valve engines, precisely balanced impellers, and vibration-absorbing feet.
- The direct-drive design is more compact to provide a smaller profile for storage in most apparatus compartments.



Model	Part #	Size	Engine, HP	CFM	RPM	Width	Depth	Height	Weight
DD 16-T-5.5	700-101	16"	Tecumseh, 5.5	10,399	3,650	19.00"	19.75"	21.25"	61 lbs.
DD 16-H-5.5	700-086	16"	Honda, 5.5	12,008	3,725	19.00"	19.75"	21.25"	67 lbs.
DD 18-T-5.5	700-139	18"	Tecumseh, 5.5	13,800	3,625	22.50"	21.00"	24.00"	71 lbs.
DD 18-H-5.5	700-024	18"	Honda, 5.5	14,773	3,765	22.50"	21.00"	24.00"	77 lbs.
DD 21-B-6.5	700-013	21"	Briggs, 6.5	17,165	3,425	25.00"	21.00"	26.00"	73 lbs.
DD 21-T-5.5	700-011	21"	Tecumseh, 5.5	17,613	3,425	25.00"	21.00"	26.00"	72 lbs.
DD 21-H-6.5	700-050	21"	Honda, 6.5	20,152	3,740	25.00"	21.00"	26.00"	79 lbs.
DD 24-B-6.5	700-016	24"	Briggs, 6.5	18,290	3,400	28.25"	21.25"	30.00"	76 lbs.
DD 24-T-5.5	700-140	24"	Tecumseh, 5.5	15,300	2,950	28.25"	22.50"	30.00"	76 lbs.
DD 24-H-6.5	700-017	24"	Honda, 6.5	19,606	3,450	28.25"	21.25"	30.00"	82 lbs.

Electric Power Blowers

Tempest offers the most complete line of Electric Powered Blowers for PPV and NPV available today. Built on the same chassis that has been so successful for our Tempest Gasoline Power Blowers, our Electric Power Blowers are powerful, durable and versatile while maintaining the ability to operate on a standard household current.

- No exhaust emissions, which can collect Carbon Monoxide inside the structure that you are trying to ventilate.
- Never requires "oil change" or has gas go bad while sitting in storage.
- Designed to start and run off a standard residential 120V 20Amp receptacle without tripping the circuit breaker.
- Power supply is readily available at most work sites.

Electric Motor Options

- Single Speed:** One speed at maximum RPM. (SS)
Variable Speed: Higher performance/infinite speeds. (VS)
220V, 50/60Hz: Domestic and International specifications.
Hazardous Location: For hazardous environments. (EP)
 Available only in (SS).

For more options contact a Tempest Customer Service Representative.

Model	Part #	Size	Motor, HP	CFM	RPM	Width	Depth	Height	Weight
EB-16	700-099	16"	1.5 TEFC	11,804	3,450	18.50"	20.00"	20.50"	66 lbs.
EB-18	700-056	18"	1 TEFC	8,748	1,750	22.25"	21.00"	24.00"	71 lbs.
EB-21	700-060	21"	1 TEFC	11,698	1,731	25.00"	21.00"	26.00"	72 lbs.
EB-24	700-062	24"	1 TEFC	12,867	1,736	28.25"	22.50"	30.00"	75 lbs.
EBS-16	700-108	16"	1/3 TEFC	3,200	1,736	18.75"	14.25"	19.50"	47 lbs.

Maximum Power Cord Length (in feet)

Motor, HP	14 Gauge	12 Gauge	10 Gauge	8 Gauge	6 Gauge
1/3	215'	330'	550'	850'	1,350'
1	60'	95'	150'	240'	380'
1.5	45'	75'	115'	190'	300'



Full line of Honda Portable Power Generators available.



Optional 150w Blower Light, PN# 725-100.
Visit www.tempest-edge.com for more information.

EBS-16 Blower

Only Tempest could turn a smoke ejector into a power blower. Featuring the AirFlex composite impeller, the Tempest EBS-16 is the most powerful 16" 1/3hp blower available. Designed to be used for both positive and negative ventilation. Ducting can be connected to the inlet or outlet with optional duct adapter ring. EBS-16 Kit available which includes Blower, Hanger Bar and Hanging Brackets. Specify Part# 700-500.



EBS-16 Shown with optional ducting and adapter ring



Programmable PPV Performance with the most CFM!

Highest Rated CFM

The VSX blower produces the highest rated CFM of any Variable Speed Electric Blower. Third-party tested Airflow, the CFM levels of the VSX are comparable to many gasoline powered blowers.

Intelligent Drive Technology (IDT)

Featuring "Intelligent-Power" which converts standard 120V single phase AC power to operate a powerful 2 horsepower motor with highly efficient 230V three phase AC power. The IDT "Smart Drive" allows for gradual speed increase, eliminating start up amp surge.

Electronic Programmable Module (EPM)

The EPM module allows for precise programming to accommodate varying electrical configurations. Internal chips may be modified at the factory to adapt to power supply changes during the life of your blower.



VSX-16	VSX-18	VSX-21	VSX-24
11,551 CFM	12,839 CFM	14,836 CFM	15,663 CFM

Product Features

- Produces the highest rated CFM of any Variable Speed Electric Blower.
- Third-Party Tested.
- Size for every apparatus: 16", 18", 21" and 24" available.
- Exclusive AirFlex Impeller specifically designed for each VSX blower.
- "Smart Drive" technology allows for gradual speed increase eliminating start up amp surge.
- Four standard EPM technology power options to choose from allowing for precise programming for operation on most electrical configurations.
- 2hp motor starts and runs continuously on standard 120V, 60Hz, 20Amp non GFCI restricted circuit breakers.
- For GFCI option please see our GFCI compatible Variable Speed Blower on the next page.





VSX Blower Specifications

Model	Part #	CFM	RPM	Width	Depth	Height	Weight
VSX-16	700-350A	11,551	3,271	19.5"	20.25"	20.75"	86
	700-350B						
	700-350C						
	700-350D						
VSX-18	700-352A	12,839	2,955	23.25"	20.5"	23.75"	91
	700-352B						
	700-352C						
	700-352D						
VSX-21	700-354A	14,836	2,232	25.5"	21"	26"	97
	700-354B						
	700-354C						
	700-354D						
VSX-24	700-356A	15,663	2,161	28.5"	22"	30"	102
	700-356B						
	700-356C						
	700-356D						

CFM and RPM figures based upon operation with 15' 12 awg cord.

Model Selection Chart

Power Cord	VSX-16	VSX-18	VSX-21	VSX-24
15' 12awg	A	A	A	A
200' 10awg	B	B	B	B
200' 12awg	C	C	C	C
200' 14awg	D	D	D	D

Blower requires 3.5kW, 120V, 60Hz, 20Amp non GFCI-restricted circuit.

How to choose the correct VSX:

- 1) Verify supply circuit is not GFCI restricted.
- 2) Verify power source is 3.5kW, 120V, 60Hz, 20Amps or greater.
- 3) Pre-determine cord reel wire gauge and length.
- 4) Select option A, B, C or D based on available power cord length and gauge.

*These units are not compatible with GFCI restricted circuits.

- Option B units will have 5% lower CFM rates.
- Option C units will have 8% lower CFM rates.
- Option D units will have 15% lower CFM rates.

Variable Speed Multi-Fan Blower

The Multi-Fan "VSM" Motor offers GFCI Compatibility and the most powerful electric blower, size-for-size, in the market today! Speeds of up to 3,200rpm are controlled with the convenience and ease of a rheostat speed control.

- Dial Control
- Water Resistant
- No Startup Amp Surge
- No Carbon Monoxide
- Runs on 2,000 Watt Generators
- Precise Control of Airflow

Model	Part #	Motor, HP	Max. CFM	Max. RPM	GFCI	Running Amps	Running Watts
EB-16-VSM	700-261	1	10,650	3,200	Yes	8	960
EB-18-VSM	700-262	1	8,465	1,660	Yes	8	960
EB-21-VSM	700-263	1	11,475	1,660	Yes	8	960

www.Tempest-Edge.com



Product Accessories



Shown with BD 21-T-5.5

Misting Ring

The Tempest Misting Ring, when attached to any 16" or larger blower, instantly creates a cool mist envelope, lowering the overall temperature of the surrounding air. Ideal for firefighter rehabilitation. Can also be used to knock down dust and other suspended particles. Three nozzle sizes available with flow rates from 0.5- to 2.0-gallons per hour (1.1 is standard). *Part# 725-049*

Exhaust Extension

The Tempest exhaust extension is the ideal solution for reducing the amount of exhaust and CO introduced during PPV operations. The hose is 2" x 10' and made of durable polyethylene that can withstand temperatures from -4 °F to +707 °F (-20 °C to +375°C). Two hoses can be combined for up to 20' of extension. Visit the download library of the Tempest website for blower CO test reports. *Exhaust Extension PN# 725-041, additional 10' Exhaust Extension Part# 300-105*



Blower Tachometer/Hour Meter

Compact hour meter is useful for keeping track of gasoline engine maintenance schedules and measuring blower performance. Attaches easily to the engine or frame in minutes. Features a "Flash Alert" feature to remind you when to change the oil and filter! Works on any gasoline engine. *Part# 581-077*

Quick-Release Hold Downs

Tempest Quick-Release Hold Downs offer an easy solution for securing your blower inside a compartment or on the outside running board. Brackets bolt onto the floor-board and adjustable clamps hold the blower firmly in place. *Part# 725-053*

Flex-Tubing

Standard flexible tubing available in sizes from 16" to 24" diameter. Made of heat and corrosion resistant material. Tubing shipped with a cuff and hooks for easy attachment to blower. Multiple sections can be connected for greater lengths. Available in 10', 15', 20' and 25' lengths. *Refer to www.tempest-edge.com for part numbers.*



Shown with EB-24

Blower Covers

Keep your blower looking new by protecting it with a vinyl cover. Slips over the blower and features grommets along the bottom for securing with a bungee cord. Available in sizes to fit any blower. *Part# - Small: 720-001, Medium: 720-002, Large: 720-003.*

Smooth Bore Ducting

Tempest Smooth Bore Ducting is a cost-effective way to ventilate a structure from greater distances, with less friction and velocity loss, when compared to standard corrugated ducting. Made of durable 6mil plastic and treated to reduce static buildup. Smooth Bore Ducting can be cut and taped to cover oversized doorways and openings for PPV applications. Fits 24" and smaller blowers and is available in any length or on standard 500' rolls. *Part# 725-005*



Shadow Smoke Machines

Shadow Smoke Simulation Machines by Rosco are respected worldwide for their superior performance in firefighting and HazMat training, pipeline construction and commercial building inspection, as well as theatrical and concert staging effects. Combined with Tempest Power Blowers, they are an ideal tool for demonstrating and simulating the power of Positive Pressure Ventilation. There is no safer or better way to “see air” than with the Shadow Series Smoke Machines.

Tempest Shadow

The Tempest Shadow is the perfect starter unit for training. With a built-in smoke fluid holder and standard remote included, the Shadow is ideal for the budget conscious consumers yet delivers performance like no other machine in its price range. Choose this machine for practical performance and cost efficiency. *PN# 710-032*



- Power Requirements:** 120V, 60Hz, 10Amp
(220/240V, 50/60Hz, 5Amp)
- Max. Fluid Consumption:** 1 liter per hour (16 ml per minute)
- Warm-Up Time:** 5 minutes (approx.)
- Dimensions:** 14.3" x 5.6" x 7.5"
(36.4cm x 14.4cm x 19cm)
- Weight:** 11.4 lbs. (5.2 kg)
- Fluid Capacity:** 1 liter (bottle) Rosco Smoke Fluid
Fluid bottle not included.
- Remote Functions:** On/Off/Momentary

Tempest Shadow 1

The Shadow 1 has been the most popular smoke machine for years due to its compact size and high smoke output. It has been completely redesigned, featuring a new heat exchanger, larger fluid port, and a built-in “Super Remote.” The new Shadow 1 gives you more smoke, longer operating times, and more training options. Multiple units can even be “daisy-chained” for training in multiple rooms simultaneously. *Part# 710-028*



- Power Requirements:** 120V, 60Hz, 11Amp
(220/240V, 50/60Hz, 5.2Amp)
- Max. Fluid Consumption:** 3.6 liters per hour (60 ml per minute)
- Warm-Up Time:** 8 minutes (approx.)
- Dimensions:** 19.5" x 9.75" x 8.5"
(49.5cm x 24.4cm x 21.6cm)
- Weight:** 22.5 lbs. (10.2 kg)
- Fluid Capacity:** 4 liter (bottle) Rosco Smoke Fluid
Fluid bottle not included.
- Remote Functions:** On/Off/Timer/Volume Control

Tempest Shadow 1 Duo Kit

What could be better than the proven performance and smoke output of our popular Shadow 1 smoke machine? Two Shadow 1 smoke machines!



Tempest has put two Shadow 1 smoke machines together to provide you with double the output, double the training options. Connect the units together, plug them into the power source and you are ready to go. Both units will operate from one remote. With the 50' connection cable you can easily place machines at opposite ends of a room or in separate rooms. With double the power, your training areas will fill up faster, denser and more thoroughly than with just one machine. *PN# 710-000*

VentMaster™

FIRE RESCUE SAWS

The advanced Tempest VentMaster Fire and Rescue Saws are pound-per-pound the most powerful, dependable and easiest to use rescue saws in the business.



New! One Step Starting

Combined Choke/Throttle Lock/Stop Switch eliminates flooding and allows fast, convenient starting.

Chain Brake

Inertia-activated chain brake stops chain in 1/20th of a second.

Angled Full Wrap Handle

Angled ergonomic handle allows safe operation in any position and protects saw from damage.

High Alloy Guide Bar

Designed for "plunge cuts" and maximum carbide chain performance. The bar has a precision-milled guide groove, hardened rails and totally integrated sealed nose bearings. Available in 16" or 20" lengths.

Side Mounted Chain Adjustment

Provides fast and easy access and adjustment.

"Scrench Tool" & Tool Holder

Standard tool is readily available for quick adjustments or maintenance.



Throttle Safety Guard

Ergonomic handle offers better grip and longer use without tiring.

Splash Guard Deflector

Protects cooling fins and muffler from cutting residue and redirects airflow around engine for cooler operation, peak performance and reduced maintenance.

Tool-Less "KIS-40" Depth Gauge

Fast, simple installation and removal, and no need to "roll the rafters" with the patented KIS-40 Depth Gauge. Accurately control cutting depth, protect operator and safely speed cut using this accessory.





Husqvarna Pro 575XT Power Head – Power you can feel!

The X-TORQ engine increases torque over a wider RPM range for maximum cutting power. Larger displacement, highest fuel economy in its class, higher peak power, 20% more torque and even better ergonomics for maximum productivity. Lowest emissions of any professional grade power head – 68g/kwh against a year 2012 standard of 72g/kwh – no other saw manufacturer comes close to this accomplishment.

"Smart Start" Decompression Valve, New Convenient Location

Reduces cylinder pressure for less starting resistance and easier starts.



New! Sealed & Protected Carburetor/Air Filter Compartment

Only cleaning system air reaches filter preventing premature filter clogging. Air Filter cannot be crushed or lost. Tool-less compartment entry for easy access to spark plug, air filter, and inspection and cleaning of cylinder cooling fins. 35% better engine cooling due to cover design in relation to cooling fan design.

Large "Glove Grip" Starter Rope Handle

Advanced Raptor Carbide Chain

Raptor Carbide Chain made in USA! Meets all ANSI hooking or kickback consumer safety standards! (see page 14 for more information)



Exclusive Air-Injection, Centrifugal Force Air Cleaning System

Eliminates need for expensive external aftermarket filters! Preliminary air intake cleaning rejects 97% of cutting residue and other airborne debris including drywall dust, concrete dust, smoke and even water spray!

Cleaner intake air means longer intervals between filter cleanings, longer runs at full power, less chain damage, smoother operation and reduced internal engine wear.



For today's fire service, there is no better combination than the Husqvarna 575X-TORQ engine and the VentMaster Raptor Carbide Chain.

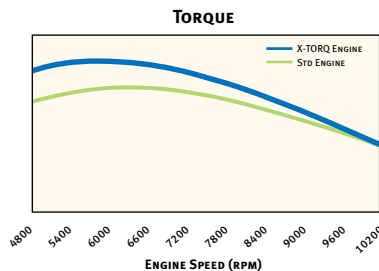


Husqvarna X-TORQ Power Head

The 575XT and 570XT are the most advanced engine heads available for today's fire service. The ergonomic design with the easy start/stop/choke control and compression valve release switch, combined with the Two-Mass Anti-Vibration System make for safer, less tiring operation. The exclusive Centrifugal Force Air Cleaning System eliminates the need for expensive, external aftermarket filters that clog and are easily damaged. The VentMaster 575XT and 570XT guarantee longer, more dependable runs at full power with less downtime for maintenance.

Power You Can Feel!

The exclusive X-TORQ engine offers larger displacement, higher peak power and more power over a wider range of RPM's. With 20% more torque "engine stall" during operation is virtually eliminated. Higher RPM's throughout the cutting spectrum mean less cutter damage and faster cuts. Get maximum value and productivity with VentMaster X-TORQ engines.



- 570X-TORQ = 4.9hp and 68cc
- 575X-TORQ = 5.5hp and 73.5cc

VentMaster Chain Saws

Model	Part #	Bar	Engine, HP	Depth Gauge	Chain	Weight
575XT-16-DG .404	TV400-051	16"	5.5hp, 73.5cc	K15-40 C	Raptor Carbide Chain 0.404 Pitch 0.063 Gauge	23 lbs.
575XT-20-DG .404	TV400-050	20"	5.5hp, 73.5cc	K15-40 C		24 lbs.
570XT-16-DG .404	TV400-041	16"	4.9hp, 68cc	K15-40 C		22 lbs.
570XT-20-DG .404	TV400-042	20"	4.9hp, 68cc	K15-40 C		23 lbs.
575XT-16 .404	TV400-049	16"	5.5hp, 73.5cc	None		22 lbs.
575XT-20 .404	TV400-048	20"	5.5hp, 73.5cc	None		23 lbs.
570XT-16 .404	TV400-047	16"	4.9hp, 68cc	None		21 lbs.
570XT-20 .404	TV400-046	20"	4.9hp, 68cc	None		22 lbs.

Advanced Raptor Carbide Chain – Made in USA!

Engineered to withstand the rigors of Fire and Rescue operations, Raptor chain will cut faster and last longer than any other chain on the market. Tough enough to cut through tar and asphalt roofing, nails, light-gauge sheet metal and wire-reinforced belting, the carbide tips are versatile enough to cut trees and green wood. The Raptor chain can cut more materials faster than any other chain.

Designed for heavy-duty hand held saws, the Raptor is available in .063 gauge and .404 and .375 pitch. The unique open dual raker protects the carbide and reduces kick back potential. Larger gullet provides better cleaning and cooling of the chain and bar, resulting in extended life and better performance. The carbide cutting edge is designed to cut softer material, yet slice through harder material. Overall, the Raptor chain was built for faster, safer and more dependable cutting.



VentMaster™

CUTOFF SAWS

VentMaster Cutoff Saws

Pound for pound these are the most powerful and dependable Rescue Cutoff Saws in the business! Three Husqvarna powerheads provide the necessary size and power range for any application.

Special Features

VentMaster Diamond Blade

The VentMaster Diamond Blade is manufactured with premium grade diamonds. This blade can cut steel, iron, brick, concrete, fiberglass, wood and glass without loss of cutting depth during the life of the blade.

Wet Kit

Included for concrete cutting when required.

D-Ring Starter Handle

The D-Ring Starter Handle provides a firm and sure grip even with a gloved hand. This feature prevents slips and broken crank cords.

SmartCarb™

Built-in automatic filter compensation, maintains high power and lowers fuel consumption.



Active Air Filtration™

Active Air Filtration™ increases the service life of the engine and reduces downtime and service costs.



KIS-360 Depth Gauge

Available only from Tempest, the patented KIS-360 depth gauge allows for precise control of cutting depth. KIS-360 Depth Gauge Kit includes templates and hardware to mount depth gauge on most manufacturers' cutoff saws.

Bottom Roller Assembly

This feature provides a resting place for the saw during long cuts to give the user better balance and control. The Bottom Roller Assembly reduces operator fatigue, especially when combined with KIS-360 Depth Gauge.

DuraStarter™

Patented, dust-sealed starter unit, where the return spring and the pulley bearing are sealed. This makes the starter virtually maintenance free, giving a further boost to the reliability of our cutters.

Part # TV406-507 shown above.

Model	Standard Diameter	Available Special Order Guard Sizes	Husqvarna Power Head	Engine / HP	Blade Speed (rpm)	Fuel Capacity (gal.)	Cut Depth (14" dia.)	Dry Weight* (14" dia.)
375K	14"	12"	K750	74cc / 5hp	4650	0.24	4.75"	21.6 lbs.
396K	14"	12", 16"	K960	94cc / 6.1hp	4725 (3705w/16" blade)	0.26	4.75"	23.4 lbs.
3120K	14"	12", 16"	K1250	119cc / 7.8hp	5100 (4700w/16" blade)	0.33	4.75"	29.9 lbs.

*Dry weight excludes blade and accessories.

Saw Packages

- **Full Option Package**, available with or without Depth Gauge, includes: VentMaster Diamond Blade, D-Ring starter handle, and bottom roller assembly.
 - **Basic Saw Package** includes a powerful, lightweight and economical solution- Saw only, no blades or optional accessories.
- Please see current price list for pricing and part numbers.

www.Tempest-Edge.com

VentMaster Diamond Blade

The VentMaster Diamond Blade is manufactured with premium grade diamonds which are fused to the blade segments using an exclusive vacuum braised technology ensuring outstanding strength and performance. The Diamond Blade will cut steel, iron, brick, concrete, fiberglass, wood and glass without loss of cutting depth during the life of the blade.



- 14" blade cuts up to 4.75" deep.
- Premium grade diamonds ensure faster cuts and a longer blade life.
- Fits any brand saw with 1" arbor (20mm bushing included).
- Although formulated for dry use, these blades can be used wet to reduce dust and noise.

Multi Cut Carbide Segmented Blade

The versatile Multi Cut Carbide Segmented Blade is engineered to cut roofing materials, drywall, sheet metal and much more. Blade direction can be reversed for extended cutting life. Fits any brand saw with a 1" arbor.



Abrasive Blades

Made of high quality abrasive materials that provide an excellent combination of cutting speed and wear resistance. Two blades available- one for cutting materials such as metals such as aluminum or ductile iron, another for cutting concrete. Both fit any brand saw with a 1" arbor.

Diamond Blades	
TV406-073	12"
TV406-074	14"
TV406-075	16"

Multi Cut Blades	
TV406-050	12"
TV406-002	14"
TV406-051	16"

Abrasive Blade for Concrete	
TV406-003	14"
Abrasive Blade for Steel	
TV406-009	14"



Both saw box kits are available for Chain Saws and Cutoff Saws.



New VentMaster Saw Box Kits

Store all of your equipment in one place for fast, easy access! VentMaster Saw Boxes are made of heavy duty diamond plate or steel to withstand any amount of abuse. VentMaster Saw Box Kits are available for chain saws and cutoff saws.

Cutoff Saw Box Kits include steel or diamond plate box (specify when ordering), Multi-Cut and Masonry blades, Universal Saw Sling, belt and gas can. **Chain Saw Box Kits include** steel or diamond plate box (specify when ordering), belt and gas can.

Saws not included with kits. Part # varies. Contact Tempest Customer Service for more information.

Universal Saw Sling

Made of durable woven nylon, the VentMaster Saw Sling makes transport of rescue ventilation saws easier and safer. The design allows perfect balance of the saw while hanging at the users side, making it easier to climb to higher areas for cutting. Attachable to any size or make chain or cutoff saw.

Part # 455-002 *Note: not to be used while saw is running.

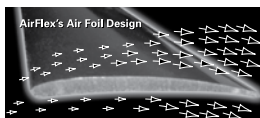


In an effort to solve the air blockage problem experienced with some blowers, Tempest Engineers discovered that an aerodynamically designed impeller creates higher pressure pulling more air through the blower, resulting in faster more efficient ventilation.

Increased PPV Performance for Tempest Blowers

As the world leader in Positive Pressure Ventilation (PPV) power blowers, Tempest has solved the air blockage problem experienced with some blowers. The AirFlex Composite Impeller is aerodynamically designed creating more air pressure with its ability to pull more air around the motor and through the blower.

At the heart of the AirFlex Impeller are the “wings”, which were designed using the aviation “air foil” principal. Through the “air foil” design, the high pressure side faces outward, delivering more pressure, velocity and cube feet per minute (CFM) of air. Each impeller is specially designed for each Tempest Power Blower model to maximize blower performance.



Third-Party Testing

Some blower manufacture's still choose not to participate in third party ratings programs and come up with CFM numbers through their own methods. The buyer should be aware that these performance figures may not be truly independent and unbiased.

Tempest was the first manufacturer of Positive Pressure Ventilation Blowers to have their products third-party tested. Tempest initiated the testing to assure our customers that the CFM numbers we claim for various models are accurate.

Standards have been developed specifically for testing PPV blowers. These standards take into consideration the setback distance of a PPV blower, the cone shaped air pattern that makes PPV work and the amount of air that is forced out the opposite end of a structure. These standards can be used to measure the performance of any blower whether shrouded or unshrouded.

Warranty Information

Limited Power Blower Warranty

Tempest Technology Corporation warrants to the original purchaser that all Tempest gasoline and electric powered blowers (except the engine or motor) will be free from original defects in workmanship and material, under normal-use conditions, for the time frame indicated below:

Firefighting Industry: 5 years from date of shipment

Golf/Turf Industry: 3 years from date of shipment

Industrial/Rental Industry: 1 year from date of shipment

Tempest will replace any defective power blower part, except the engine or motor, if returned during the applicable warranty period. Contact the Tempest factory in Fresno, California at 559-277-7577 or 800-346-2143 for warranty claims.

Note: Unauthorized repair or modification of the factory assembly or parts voids the warranty.

Blower Engine / Motor Warranty

The engines manufactured by Honda, Briggs & Stratton and Tecumseh are covered by a separate manufacturer's warranty for a period of two years. Electric motors manufactured by Magnetek, Marathon, Baldor, Franklin Electric and Multi-Fan are covered by a separate manufacturer's warranty for a period of 1 year. Contact the Tempest factory in Fresno, California at 559-277-7577 or 800-346-2143 for assistance with warranty claims.

Limited Ventmaster Warranty

Tempest Technology Corporation warrants to the original purchaser that all VentMaster Fire/Rescue Saws and Cutoff Saws (except the chain, guide bar and cutoff blade) will be free from original defects in workmanship and material, under normal-use conditions for one year from the date of shipment. Tempest does not provide a warranty for Raptor Carbide Chain and Multi-Cut Cutoff Blades.

Tempest will replace any defective VentMaster part, except the Raptor Carbide Chain, Guide Bar or Multi-Cut Cutoff Blade, if returned during the applicable warranty period. Contact the Tempest factory in Fresno, California at 559-277-7577 or 800-346-2143 for warranty claims.

Note: Unauthorized repair or modification of the factory assembly or parts, voids the warranty.

Limited Shadow Smoke Machine Warranty

Tempest Technology Corporation warrants to the original purchaser that the Tempest Shadow Smoke Machines will be free from original defects in workmanship and material for a period of twelve months from the date of shipment. During the warranty period, machines will be repaired or replaced at the option of Tempest.

The warranty does not extend to any parts of the Tempest Shadow Smoke Machines that have been subject to misuse or accident. Nor does the warranty cover any machine that has been opened, modified or repaired other than by Tempest or its designated repair station.

The warranty will not apply if procedures described in the Operations Manual are not followed. It is the user's obligation to clean and maintain the Tempest Shadow Smoke Machines according to these instructions, and to follow acceptable practices for handling electrical devices.

Note: Use of any fluid other than a Rosco brand fluid will void warranty.

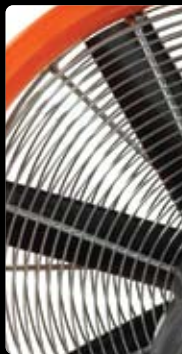
Contact Tempest Technology

Tempest Technology Corporation

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COMMITTED TO QUALITY



Tempest Technology Corporation's mission is the promotion of the use of air as a tool for eliminating hostile interior environments encountered by firefighters, rescue teams, industrial workers, and industrial contractors worldwide.

This mission will be accomplished by identifying opportunities where Positive Pressure Ventilation and other ventilation techniques can be applied to make a work or emergency environment safer and educating manufacturers, distributors, and end users through live demonstrations and professional training programs.

Tempest will continually improve and expand its existing product line to meet the needs of its customers in various domestic and international markets. In order to fully utilize the strength of its resources and worldwide distribution system, Tempest will develop strategic partnerships, add complementary product lines, and engage in private labeling agreements with other manufacturers.

For More Information Contact Your Dealer or Call

1-800-346-2143

www.tempest-edge.com