Introduction (History of Tempest & PPV/PPA)

Tempest Power Blowers™

PathMaster® Smoke Curtains

Mobile Ventilation Units (MVU®)

VentMaster® Fire Rescue Saws

SHADOW™ Smoke Machines & Training
More than three decades ago, Tempest found its start in producing quality, American made hot-air balloon inflators for professionals and hobbyists around the nation. Shortly after inception, we were involved in the pioneering of a new firefighting technique called positive pressure ventilation/attack or PPV/PPA. Tempest’s high performance inflators were just what the fire industry was looking for in deployment of this groundbreaking tactic. PPV became well known for its success along with Tempest’s reputation for being the first and only manufacturer with the perfect tool for the job at hand. Since then, Tempest has grown substantially to become the world’s leading producer of tools used in a wide array of ventilation applications. All products manufactured by Tempest Technology Corp. have one goal in mind, making hazardous environments safer.

Quality & Reliability
Tempest has always been at the forefront of product innovation and evolution. However, a few things haven’t changed, and in our minds, shouldn’t. Quality, reliable tools and equipment made here, in the United States of America, is a defining characteristic of the Tempest name. Every Tempest ventilator only uses materials provided by trusted local suppliers. We’ve spent decades perfecting the design and manufacturing of our products. It’s not uncommon to find Tempest brand ventilators built over 20 years ago still being used to this day. You’re not just buying a Tempest, you’re investing in a tool that is built to last.

Service & Support
When you buy a product, you’re also purchasing the service and support provided by the company that manufactured it. This philosophy is the cornerstone in Tempest’s business. Every Tempest employee is committed to providing our customers with the absolute best in care and support - before, during and after the sale. We only distribute through dealers chosen for their shared commitment in this unending pursuit, further ensuring our customers are always taken care of.

While Tempest owes much of its success to the fire industry and the adoption of positive pressure ventilation and attack, two specific areas of focus for the company have helped us maintain our leadership in the development and manufacturing of premium ventilators: an obsession for producing only the finest quality tools and equipment and an unwavering commitment to our customers.
From the beginning, Tempest has been committed not only to the production of quality tools and equipment, but to the support and well being of all first responders. Whether it’s equipment or resources donated for groundbreaking research, making available impactful training resources or contributions made to organizations which aid firefighters and their families who have been stricken with cancer, Tempest has pledged to contribute. Your business with us helps make firefighting safer for all, and only because of you can we make this happen.

Thank you.
In the 1980’s, seasoned firefighters located in California initiated works to test a ground breaking tactic using mechanical ventilation to attack structure fires. At the time it seemed like a dangerous idea, one that strayed too far from traditional teaching - never introduce fresh air to a fire. However, the tactic was simply a critique on what firefighters had done for decades - use coordinated ventilation to control the atmosphere inside a structure. This time however, using a fan, ventilation rates and effects could be controlled to a much greater extent and witnessed much more rapidly than traditional ventilation techniques.

While the thought of introducing fresh air to a fire makes most uncomfortable, the tactic is successful by simultaneously removing two other necessary elements of fire production, heat and fuel (smoke), counter-acting any initial danger experienced by the introduction of fresh air. Of course, venting a fire, especially a ventilation limited fire, will increase fire growth if enough time is permitted. Yet this is not a concern as firefighters are now able to find, reach and attack the fire much more rapidly once PPA is initiated. With PPA, firefighters enter a structure standing, not crawling, with clear visibility and in dramatically lower temperatures.

**Below:** Fire requires *Heat, Fuel* and *Oxygen* simultaneously in order to react. Most fires are in a ventilation limited state (left triangle) upon a department’s arrival. While firefighters then introduce oxygen to the fire with PPA, at the exact same time both fuel and heat are removed. These three elements never mix, preventing the fire from reacting. The attacking crew then has ample time to extinguish the fire before the missing sides of the triangle are reintroduced.
During PPA, a Tempest Power Blower™ is deployed and its cone of air is positioned to seal the entry point. After an exhaust opening is created near the seat of the fire, the fan is turned on and then almost instantly pressurizes the entire structure. All heat and smoke moves from high pressure (inside the structure) to low pressure (outside the structure) and away from entering firefighters and potential occupants.

PPA and PPV are often used synonymously with one another, however, there is an important yet simple difference. Positive Pressure Attack (PPA) is the use of positive pressure during the attack phase, or before the fire has been knocked down. Positive Pressure Ventilation (PPV), the more commonly used tactic of the two, is the use of positive pressure after the fire has been extinguished. Like PPA, PPV is a much more effective and efficient means of ventilation over its predecessors. Nearly all fire departments in the US utilize PPV during overhaul to rid the structure of lingering smoke and harmful toxins/carcinogens still present in the air after the fire has been extinguished.

PUSHING FIRE? During PPA/PPV, air movement is intense at the entrance and exhaust points. However, inside the structure, hardly any movement is felt at all. An analogy useful in understanding this phenomenon is a river which empties into a lake and then gradually flows into another river. Water movement in the lake will be minimal but rapid at the inlet and outlet. This helps to explain why the voluminous yet calm airflow inside a structure during PPA/PPV does not "push" fire.

Positive Pressure Attack (PPA) VS Positive Pressure Ventilation (PPV)
No manufacturer has access to technology that defies the laws of physics. **All PPV/PPA fans of similar size, blade design and drive power will compare in performance.** Consider the quality, reliability, durability, service provided and the reputation of the brand behind the product before the listed CFM.

Bigger isn’t always better. Be sure the unit you pick fits in the compartment space where it’ll make its home. Also, consider the weight. If you find yourself carrying an electric ventilator up/down stairs often, you may appreciate a lighter unit over a more powerful one.

**Choosing Drive**

Consider your tactical and realistic needs. Traditionally, gas powered units offer the best performance making them ideal for attack, while electrics are chosen for ventilation post knockdown due to their cleaner operation. Greater performance doesn’t always mean it’s the best for the job at hand.

**Choosing Type**

A recent development, Tempest now offers two different styles of air production, CAF and LAF, which both serve well in any application, but really shine in particular scenarios. The section to the right expands more on the differences of the two options and which one is right for your department.
When PPV and PPA were first discovered and adopted into the fire service, there was only one “type” of fan in regards to the air pattern produced. These first units generated what became known as the “Cone of Air”, an essential element of PPV/PPA. We now call this traditional cone of air, *Cone Air Flow (CAF)*. CAF is a broad cone shape which provides fantastic ventilation performance for a wide variety of structures. Since then, we’ve developed another type of air pattern production: *Laminar Air Flow (LAF)*. While LAF’s air pattern is still essentially cone-shaped, it is a concentrated and narrow formation which shines in a number of unique scenarios where CAF fans may face obstacles.

While both CAF and LAF allow for PPV/PPA, the two provide exclusive benefits in a number of scenarios. Below, we outline the differences of the two in order to help you decide which one is best for your use. Neither technique is better than the other, or a replacement for.

### Description
- The traditional air pattern which takes the formation of a very broad “Cone of Air.”

### Pros
- Tried and True - Used for decades to successfully incorporate PPV/PPA.
- Works well with a wide variety of structure sizes and types.
- Allows for the fan to be positioned close to the entrance point - useful for set-backs with limited space.

### Cons
- Ventilation rates in large (> 5,000 sq. ft.), complex, and/or multi-story structures are not as rapid due to significant back pressures generated.

### Description
- Air pattern recently developed which incorporates a narrow, high velocity formation.

### Pros
- Higher Pressure - Ideal for ventilating large (> 5,000 sq. ft.), complex, and/or multi-story structures where resilient interior back pressures may be present.
- Allows for greater set-back.

### Cons
- PPV/PPA may not be possible with very short set-back ranges - a minimum of 7’ is required.
Our line of Power Blowers™ are what started it all - they were the first ventilators used in positive pressure ventilation and attack and the first line of tools Tempest Technology Corp. manufactured. We're proud to say, they're still the most used and trusted ventilators in the world.
1. **AirFlex Composition Impeller**
Uniquely designed impellers deliver maximum air volume (CFM), velocity and pressure from each *Tempest Power Blower*™. Every size and type of fan features a blade designed specifically for it to deliver the greatest performance possible. Composite blades are much safer than traditional metal blades as they are designed to disintegrate upon impact of any foreign objects. Metal blades may fragment when integrity is compromised, potentially causing severe injury.

2. **Welded Steel Roll Cage Frame**
Every bend and cross brace weld is structurally engineered to increase the blower frame’s strength to weight ratio by as much as 30%. Welds eliminate the need to continuously maintain/tighten nuts and bolts. Its roll cage design gives protection to all angles and sides of the shroud and motor.

3. **Ergonomic Design**
Exclusive frame design makes it convenient to lift, carry and transport. Numerous points on the frame double as lifting/carrying handles. The design itself is the result of three decades of testing, research and experience to create the most ergonomic platform possible.

4. **Foot Operated Tilt Adjustment**
No levers to set or knobs to tighten when setting the angle for PPV/PPA. Foot operated adjustment is quick, easy and secure. Allows for up to 5 (4 on 16” models) tilt positions: -5°, 0°, +5°, +10°, +15°.

5. **No Brakes to Lock**
No brakes to forget to lock down or unlock. This positive pressure ventilation fan rests on anti-vibration spring feet for stability and prevents “walking.”

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**Information/Safety Bar**
Features a large section of durable, reflective material to dramatically increase visibility of the blower from front view and a full list of instructions on the back to allow for safe and effective use.

**Turbo 2000 Shroud**
Redesigned inward curve and front of the shroud increases air velocity by up to 30%. The air hitting the ventilation opening is stronger and maintains positive pressure farther downwind.

**Safety Grille**
Front and rear safety grilles 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.
Belt-Drive Power Blowers™

Features a Tempest exclusive belt-drive design which reduces engine wear, improves CFM performance and provides greater stability. The Tempest Belt-Drive Power Blower™ is the original PPV fan and still the gold standard today. Offers industry leading reliability, durability and performance.

- Tempest Exclusive Belt-Drive Design
- The First PPV/PPA Fan Used in Firefighting
- Pulley System Reduces Engine Wear, Enhances CFM Performance and Provides Greater Fan Stability

Direct-Drive Power Blowers™

Tempest Direct-Drive positive pressure ventilation fans offer the ideal combination of value, performance and durability. All models feature an overhead valve engine that delivers incredible reliability. The 18” and 21” Tempest Direct-Drive Power Blowers™ are the most popular PPV units in the world.

- The Most Popular Units in the World
- Perfect Combination in Value, Performance and Durability
- Available w/ Honda GX or Briggs and Stratton OHV Engines

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Part No.</th>
<th>Size</th>
<th>HP</th>
<th>CFM</th>
<th>Dimensions (WxDxH)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD-16-H-4.8</td>
<td>910-1100</td>
<td>16”</td>
<td>4.8</td>
<td>12,008</td>
<td>20.50” x 19.75” x 21.75”</td>
<td>79 lbs.</td>
</tr>
<tr>
<td>DD-18-H-4.8</td>
<td>910-1120</td>
<td>18”</td>
<td>4.8</td>
<td>14,773</td>
<td>22.75” x 21.00” x 24.25”</td>
<td>85 lbs.</td>
</tr>
<tr>
<td>DD-21-H-5.5</td>
<td>910-1140</td>
<td>21”</td>
<td>5.5</td>
<td>20,152</td>
<td>25.00” x 21.00” x 26.25”</td>
<td>90 lbs.</td>
</tr>
<tr>
<td>DD-24-H-5.5</td>
<td>910-1160</td>
<td>24”</td>
<td>5.5</td>
<td>19,606</td>
<td>28.00” x 21.00” x 30.00”</td>
<td>99 lbs.</td>
</tr>
<tr>
<td>DD-16-B-3.5</td>
<td>910-1101</td>
<td>16”</td>
<td>3.5</td>
<td>11,541</td>
<td>20.50” x 19.75” x 21.75”</td>
<td>73 lbs.</td>
</tr>
<tr>
<td>DD-18-B-5.5</td>
<td>910-1121</td>
<td>18”</td>
<td>5.5</td>
<td>14,341</td>
<td>23.50” x 21.00” x 25.00”</td>
<td>83 lbs.</td>
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<tr>
<td>DD-21-B-5.5</td>
<td>910-1141</td>
<td>21”</td>
<td>5.5</td>
<td>18,025</td>
<td>25.50” x 21.00” x 26.25”</td>
<td>87 lbs.</td>
</tr>
<tr>
<td>DD-24-B-5.5</td>
<td>910-1161</td>
<td>24”</td>
<td>5.5</td>
<td>19,232</td>
<td>28.00” x 21.00” x 30.00”</td>
<td>97 lbs.</td>
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</tbody>
</table>
The dynamics of airflow are fairly complicated and CFM only tells part of the story, so we’ve created this visual guide to help you choose the right fan. If the icon is dark gray, then that unit is ideal - light gray, then it is usable. *Guide is based on estimates backed by testing and experience.

Performance Guide
The VSG Power Blower™ is the perfect balance in electric driven performance, variable speed control and value. All models feature a powerful 1.5 HP motor and simple to operate 0 to 100 variable speed control. NEMA-4 rated drive provides extra protection in wet environments. This fan will operate on GFCI protected circuits.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Part No.</th>
<th>Size</th>
<th>HP</th>
<th>CFM</th>
<th>Dimensions (WxDxH)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-16-S-1.5</td>
<td>910-1200</td>
<td>16”</td>
<td>1.5</td>
<td>11,804</td>
<td>20.50” x 19.75” x 21.75”</td>
<td>74 lbs.</td>
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<td>SS-18-S-1.0</td>
<td>910-1220</td>
<td>18”</td>
<td>1.0</td>
<td>8,748</td>
<td>22.00” x 21.00” x 24.25”</td>
<td>76 lbs.</td>
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<tr>
<td>SS-21-S-1.0</td>
<td>910-1240</td>
<td>21”</td>
<td>1.0</td>
<td>11,698</td>
<td>24.75” x 21.00” x 26.25”</td>
<td>81 lbs.</td>
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<tr>
<td>SS-24-S-1.0</td>
<td>910-1260</td>
<td>24”</td>
<td>1.0</td>
<td>12,867</td>
<td>28.00” x 21.00” x 30.00”</td>
<td>90 lbs.</td>
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</tbody>
</table>

The VSR is the latest innovation in our variable speed electric offering and delivers unmatched performance, bridging the gap between gas and electric airflow. All models feature a class leading 2.0 HP motor and simple to operate 0 to 100 variable speed control. NEMA-4 rated drive provides extra protection in wet environments. This fan will operate on GFCI protected circuits. Motors can be ordered in 110-120V/60Hz or 220-230V/50Hz.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Part No.</th>
<th>Size</th>
<th>HP</th>
<th>CFM</th>
<th>Dimensions (WxDxH)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS-16-G-1.5</td>
<td>910-1300</td>
<td>16”</td>
<td>1.5</td>
<td>11,125</td>
<td>21.00” x 19.75” x 21.75”</td>
<td>89 lbs.</td>
</tr>
<tr>
<td>VS-18-G-1.5</td>
<td>910-1320</td>
<td>18”</td>
<td>1.5</td>
<td>11,861</td>
<td>23.00” x 21.00” x 24.25”</td>
<td>95 lbs.</td>
</tr>
<tr>
<td>VS-21-G-1.5</td>
<td>910-1340</td>
<td>21”</td>
<td>1.5</td>
<td>13,414</td>
<td>26.00” x 21.00” x 26.25”</td>
<td>99 lbs.</td>
</tr>
<tr>
<td>VS-24-G-1.5</td>
<td>910-1360</td>
<td>24”</td>
<td>1.5</td>
<td>12,901</td>
<td>29.50” x 21.00” x 30.00”</td>
<td>109 lbs.</td>
</tr>
</tbody>
</table>
SS 16” Models

SS 18” Models

SS 21” Models

SS 24” Models

VSG 16” Models

VSG 18” Models

VSG 21” Models

VSG 24” Models

VSR 16” Models

VSR 18” Models

VSR 21” Models

VSR 24” Models

*For icon explanation, please see page 13.
Special Operations Power Blowers™ are the perfect choice for departments who often ventilate large, complex and/or multi-story structures (>5,000 sq. ft.) and stairwells. Allows for distanced setback over 10 ft. but requires at least 7 ft. to achieve positive pressure ventilation. Available in gas (Honda® GX engine) or electric (GFCI compatible, variable speed) driven models.

**Model No.** Part No. **Size** **HP** **CFM** **Dimensions (WxDxH)** **Weight**

**Gasoline - Honda® GX Engine**
- SP-18-H-5.5 910-1620 18" 5.5 15,792 20.50" x 21.50" x 22.50" 88 lbs.
- SP-21-H-8.5 910-1640 21" 8.5 19,936 24.25" x 24.00" x 25.50" 122 lbs.

**Electric - Variable Speed, GFCI Compatible**
- SP-18-V-2.0 910-1720 18" 2.0 13,338 21.75" x 21.50" x 25.75" 105 lbs.

*For motor and drive information, please see the VSR Power Blower™.

**Ergonomic Design**
Frame design is the result of three decades of testing, research and experience. Nearly every inch of the frame serves as an ergonomic carrying/lifting point.

**Safety Grille**
Front and rear safety grilles feature a welded construction to support shroud integrity. Meets strict European CE Safety Standards.
1. Laminar Air Flow (LAF)

The Special Operations (SP) Power Blower™ uses a uniquely designed grille and shroud to produce a narrow, high pressure air pattern called Laminar Air Flow (LAF). Fires in large, complex structures as well as multi-level structures build high back pressures inside the building. LAF’s high pressure air pattern is capable of overcoming these back pressures resulting in uninhibited ventilation. This same LAF also allows for a distanced set-back reducing fan noise heard inside the structure.

2. AirFlex Composition Impeller

Uniquely designed impellers deliver maximum air volume (CFM), velocity and pressure from each Tempest Power Blower™. Every size and type of fan features a blade designed specifically for it to deliver the greatest performance possible. Composite blades are much safer than traditional metal blades as they are designed to disintegrate upon impact of any foreign objects. Metal blades may fragment when integrity is compromised, potentially causing severe injury.

3. Welded Steel Roll Cage Frame

Every bend and cross brace weld is structurally engineered to increase the blower frame’s strength to weight ratio by as much as 30%. Welds eliminate the need to continuously maintain/tighten nuts and bolts. Its roll cage design gives protection to all angles and sides of the shroud and motor.

4. Foot Operated Tilt Adjustment

No levers to set or knobs to tighten when setting the angle for PPV/PPA. Foot operated adjustment is quick, easy and secure. Allows for up to 6 tilt positions: -10°, -5°, 0°, +5°, +10°, +15°.

5. No Brakes to Lock

No brakes to forget to lock down or unlock. This positive pressure ventilation fan rests on anti-vibration firm rubber feet for stability and prevents “walking.”

Performance Guide

The dynamics of airflow are fairly complicated and CFM only tells part of the story, so we’ve created this visual guide to help you choose the right fan. If the icon is dark gray, then that unit is ideal - light gray, then it is usable.

*Guide is based on estimates backed by testing and experience.
1. FlexiFoam - High Expansion Foam Generator

Utilizing airflow from a Power Blower™ or MVU®, the FlexiFoam creates its foam using an air/water mixture generated at nearly any desired location - even at the seat of the fire. Due to the unit’s use of fresh air located away from the involved area, foam generation is continuous even if the generator is completely submerged and/or is placed in a heavy smoke filled atmosphere. The FlexiFoam’s light-weight portable design also allows it to be effortlessly used from ladders/aerials.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Flow Rate (GPM)</th>
<th>Foam Generation (CFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>725-079</td>
<td>FlexiFoam M-L 2</td>
<td>52.8</td>
<td>706 - 3,531</td>
</tr>
<tr>
<td>725-080</td>
<td>FlexiFoam M-L 4</td>
<td>106.0</td>
<td>1,059 - 4,238</td>
</tr>
<tr>
<td>725-182</td>
<td>FlexiFoam M-L 4/8</td>
<td>106.0/211.0</td>
<td>1,059 - 5,650</td>
</tr>
</tbody>
</table>

*Foam Generator Only
Additional purchase of fan, ducting and straps may also be required.

2. Flex Tube Ducting

Attaches to Power Blower™ and greatly enhances ability to control and manipulate air flow. Made from quality materials designed to last through hundreds of uses. Heat resistant, easy to use and quick to attach. Perfect for confined space PPV and NPV. A necessary accessory to use the FlexiFoam High Expansion Foam Generator. Extreme heat resistant ducting and couplers also available upon request.

Comes in Eight (8) Sizes:

- 16” x 15’  Part No. 725-029  21” x 15’  Part No. 725-021
- 16” x 25’  Part No. 725-016  21” x 25’  Part No. 725-022
- 18” x 15’  Part No. 725-070  24” x 15’  Part No. 725-071
- 18” x 25’  Part No. 725-019  24” x 25’  Part No. 725-025
3. GloWedge Door Chock
Glow-in-the-dark door chocks made from a high strength polymer to provide years of use and abuse. The entire chock illuminates brightly to aid in easy sighting and use.

- Part No. 300-187 2-Pack
- Part No. 300-188 Bucket (20 Chocks)

4. Misting Ring Assembly
Allows you to easily provide fine water mist carried by your Tempest PPV fan. Nothing compliments working ventilation like water does, whether it’s in decontaminating a hazardous area or cooling. Features stainless steel tubing with eight (8) professional grade conical nozzle sprayers - standard garden hose connection.

- Part No. 725-049

5. Exhaust Extension
Nearly entirely eliminates engine exhaust from being put into the ventilated structure. Rapid attach/detach 10’ x 2” extension hose carries engine exhaust from the positive pressure ventilation fan away and out of reach of the fan’s air movement. Durable polyethylene easily withstands exhaust temperatures. Connect two hoses for 20’ of extension (requires coupler).

- Part No. 725-041 10’ x 2” Extension
- Part No. 300-121 Coupler (To Link Multiple Extensions)

6. Fan Hold-Downs
Makes transporting your Tempest Power Blower™ safer and more convenient. These Hold-Downs will bolt to a desired location and allow you to quickly attach and detach your ventilator. Comes in pairs.

- Part No. 725-053 All Models (Except VSX)
- Part No. 725-086 VSX - 16”, 18”, 21”

7. Streamlight PolyTac® Tactical Light & Mount
Securely and conveniently mount a light source to nearly any part of the fan’s frame. Uses industry leading Streamlight® flashlight and Tempest engineered light mount.

- Part No. 725-105 12V LED Light w/ Bracket

8. GESi® Catalytic Converter
Simple engine attachment reduces from up to 70% to 99% of carbon monoxide, hydrocarbons and nitrogen oxides from gasoline engine exhaust. A perfect accessory if you’re looking to eliminate exhaust toxins from being reintroduced into the structure. Simple to install attachment, does not affect blower performance or CFM. *Results may vary.

- Honda® GX 160 Engines Part No. 190-061
- Honda® GX 200 Engines Part No. 190-062
- Honda® GX 270 Engines Part No. 190-063

9. Exhaust Extension
Nearly entirely eliminates engine exhaust from being put into the ventilated structure. Rapid attach/detach 10’ x 2” extension hose carries engine exhaust from the positive pressure ventilation fan away and out of reach of the fan’s air movement. Durable polyethylene easily withstands exhaust temperatures. Connect two hoses for 20’ of extension (requires coupler).

- Part No. 725-041 10’ x 2” Extension
- Part No. 300-121 Coupler (To Link Multiple Extensions)

10. GloWedge Door Chock
Glow-in-the-dark door chocks made from a high strength polymer to provide years of use and abuse. The entire chock illuminates brightly to aid in easy sighting and use.

- Part No. 300-187 2-Pack
- Part No. 300-188 Bucket (20 Chocks)
While they’re not as effective as positive pressure ventilators, Smoke Ejectors are still the go to for many departments around the world for their compact size/weight, simplicity and affordability. Perfect for ventilating in confined spaces. Extremely light weight and compact for convenient lifting/carrying and storage/transport.

**Single-Speed Electric Smoke Ejectors**

<table>
<thead>
<tr>
<th>Model No.</th>
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<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-16-S-0.3</td>
<td>911-1000</td>
<td>16”</td>
<td>0.3</td>
<td>3,200</td>
<td>18.75” x 14.25” x 19.50”</td>
<td>47 lbs.</td>
</tr>
<tr>
<td>EB-16-S-0.3 KIT</td>
<td>911-1500</td>
<td>16”</td>
<td>0.3</td>
<td>3,200</td>
<td>18.75” x 14.25” x 19.50”</td>
<td>47 lbs.</td>
</tr>
<tr>
<td>EB-16-S-0.3-EP</td>
<td>911-1001</td>
<td>16”</td>
<td>0.3</td>
<td>3,200</td>
<td>18.75” x 14.25” x 19.50”</td>
<td>52 lbs.</td>
</tr>
<tr>
<td>EB-16-S-0.3-EP KIT</td>
<td>911-1501</td>
<td>16”</td>
<td>0.3</td>
<td>3,200</td>
<td>18.75” x 14.25” x 19.50”</td>
<td>52 lbs.</td>
</tr>
<tr>
<td>EB-16-S-1.5</td>
<td>911-1010</td>
<td>16”</td>
<td>1.5</td>
<td>11,804</td>
<td>18.75” x 14.75” x 19.50”</td>
<td>59 lbs.</td>
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</tbody>
</table>

*Kits include Smoke Ejector, Door Bar Holder, Hanging Bracket Set and Ducting Hose Adapter.

1. **Negative Pressure Ventilation**

This Smoke Ejector is designed to perform effective and efficient negative pressure ventilation, or NPV. While positive pressure ventilation (PPV) blows air into a structure, negative pressure sucks air out. This can be useful in confined space situations and/or when ventilated air must be controlled to a greater extent.

2. **AirFlex Composition Impeller**

Uniquely designed impellers deliver maximum air volume (CFM), velocity and pressure. Every size and type of fan features a blade designed specifically for it to deliver the greatest performance possible. Composite blades are much safer than traditional metal blades as they are designed to disintegrate upon impact of any foreign objects. Metal blades may fragment when integrity is compromised, potentially causing severe injury.

3. **0.3 HP or 1.5 HP Electric Motor**

Ventilator is available in a number of configurations including a light weight 0.3 HP or high performance 1.5 HP single speed electric motor. Available with hazardous location (Explosion Proof, EP) motors which are intended for Class 1, Group C&D and Class 2 Group F&G environments. Motors can be ordered in 110-120V/60Hz or 220-230V/50Hz. Gasoline engine driven models are also available.
4. **Compact Size and Weight**

Lightest weight and most compact ventilator available for extremely convenient use and transport. Its reduced dimensions make it perfect for compartments with limited space and confined space ventilation. At under 50 lbs., lifting and carrying this unit is a breeze and ideal for departments which often carry their ventilator over long distances or up and down stairwells.

5. **Welded Steel Roll Cage Frame**

Every bend and cross brace weld is structurally engineered to increase the blower frame’s strength to weight ratio by as much as 30%. Welds eliminate the need to continuously maintain/tighten nuts and bolts. Its roll cage design gives protection to all angles and sides of the shroud and motor.

---

**Smoke Ejector Accessories**

**Door Bar Holder & Hanging Bracket Set**

Allows hanging of the *Tempest Smoke Ejector* from almost any doorway or window opening. The *Door Bar Holder* is made for easy installation and provides universal, secure mounting. The *Hanging Bracket Set’s* hooks are made from solid steel to ensure safe suspension. Their simple design allows for adjustment of the EBS-16’s angle and direction of air movement.

<table>
<thead>
<tr>
<th>Door Bar Holder</th>
<th>Part No. 300-141</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanging Bracket Set</td>
<td>Part No. 300-142</td>
</tr>
</tbody>
</table>

**Ducting Hose Adapter**

A necessary accessory when wanting to use ducting on your *Tempest Smoke Ejector*. Made of durable spun aluminum, the adapter bolts directly to the *Smoke Ejector* on either side, creating a platform to attach the desired ducting.

Part No. 725-042

**Flex Tube Ducting**

Allows for safe and efficient control of airflow and ventilated particulates. Made from quality materials designed to last through hundreds of uses. Heat resistant, easy to use and quick to attach. *Ducting Hose Adapter* is required for use.

Comes in two (2) Sizes:

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16” x 15’</td>
<td>725-029</td>
</tr>
<tr>
<td>16” x 25’</td>
<td>725-016</td>
</tr>
</tbody>
</table>
Control the Air, Control the Fire

The ability for any fire department to rapidly deploy barriers aiding in directing fire movement, growth and behavior is worth its weight in gold. The Tempest **PathMaster** Smoke Curtain is made from a lightweight, fire resistant material which allows for any firefighter to do just that.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dim. Collapsed (WxDxH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>715-001</td>
<td>PathMaster (28” - 46”)</td>
<td>28.00” x 2.00” x 21.50”</td>
</tr>
<tr>
<td>715-002</td>
<td>PathMaster XL (36” - 59”)</td>
<td>36.00” x 2.00” x 21.50”</td>
</tr>
</tbody>
</table>
**Control the Flow Path**

*Allows a firefighter to easily open and close flow paths.* Puts fire movement/growth control in the department’s hands. Application based on recent research conducted by UL FSRI on interior flow paths.

**Limit/Reduce Smoke Spread & Damage**

Create a temporary blockade, almost entirely eliminating smoke spread and movement between rooms. Keeps escape routes such as stairwells free from blinding and suffocating smoke. Significantly helps to prevent unnecessary smoke risk/damage, saving property.

**Amplify PPV/PPA - Increase Pressure**

Effectively reduce doorway size allowing closer fan placement while maintaining necessary air seal. Fan closer to the ventilation point increases internal pressures and resulting ventilation rates.

**Open Point of Egress**

*Only prevents air movement through the opening, not personnel.* Deploys in any doorway or window opening without obstructing the point of egress unlike closing the door or window. Frees up personnel from having to manage a closed doorway.

**Fabric**

Silicone Impregnated Fiberglass. Fire resistant up to 1100°F/600°C

**Frame**

1.25” Aluminum Square Tubing with Quick Ratchet/Screw Width Adjustment
The First of Its Kind

Tempest Technology Corporation designed and built the first MVU® over a decade and a half ago. With more than 250 units now in service, the MVU® has become a key asset in a range of industries with worldwide success specifically within firefighting applications. Tempest’s dedication to quality, performance and customer satisfaction serves as a solid foundation on which the success of the MVU® brand was built, and continues to rest today. There is no name chosen more often for large ventilation on a mobile platform than the Tempest MVU®.

Why An MVU®

Many departments around the world service towns and cities which host massive structures and bustling environments. When incidents occur in these locations, things can almost instantaneously turn from bad to worse - and adequate ventilation can often mean the difference between life and death. Standard positive pressure ventilation fans, even in numbers (see “The Power of an MVU”™), are nearly always incapable of conducting ventilation in super massive facilities and enclosed areas such as parking garages, tunnels, high-rise, shopping malls and more. Only the use of a Tempest MVU® can help.

1. 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.

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

3. High-Rise Stairwell Pressurization
Prevent smoke and heat from entering stairwells and hallways of high-rise buildings. Create unobstructed paths for evacuation and fire attack access.

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

5. 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. Ventilate underground floors and parking areas from ground level.

6. ARFF Operations
Remove smoke, heat and gases from passenger terminals, large frame aircraft, airport hotels and tunnels.
In theory, six (6) 27” Belt-Drive Power Blowers™ equals a greater cumulative CFM number than the MVU® 48. This does not mean these six units will be able to deliver the same or greater ventilation performance as the MVU®. Large structure ventilation requires overcoming incredibly resilient back pressures, something only a large scale mobile ventilation unit can achieve.
The Only MVU’s of Their Kind

... In size, operation and capability. In a number of applications, 48” or 60” shroud diameters like you’ll find only from Tempest are necessary to create the air seal which is so vital in PPV. Smaller units may be incapable of creating a “cone of air” large enough to seal a tunnel entrance for example - making effective ventilation impossible. Due to the blower’s significant size and power, the 48 and 60 also generate the highest CFM possible in a mobile ventilation unit. These two MVU models are the power-houses in ventilation.
MVU® 60 Specifications

Blower (Fan) Output
Volume of Air: 150,000 Nominal CFM

Engine
133 HP (99 kW) Cummins® 6-Cylinder Diesel

Capabilities

MVU® 48 Specifications

Blower (Fan) Output
Volume of Air: 130,000 Nominal CFM

Engine
110 HP (82 kW) Cummins® 4-Cylinder Diesel

Capabilities

Standard Features
- Tilt System: + 30° to - 30°
- Hydraulic System: Pump, Motor, Tank and Valves
- 55 gal (208 L) Fuel Tank
- Electric Wiring w/ 24V Battery
- Operating Panel w/ Wired Remote Control
- Body for Engine and Hydraulic System
- Mounted on Base Frame
- Painted (Standard Color is Red)

Optional Features
- 360° Electric Ventilator Rotation
- 9'-10" (3 m) Electric Ventilator Scissor Lift
- Ducting System (Mounts to Inlet or Outlet)
- Custom Color Options
- 87 GPM (300 L/min.) Misting System

Mounting Configurations
- Tandem Axel Goose Neck Trailer
- Hook-Lift Skids
- Vehicle Chassis
- Railcar
- Other

NOTE: All mounting options can be provided and installed by Tempest.

Performance Guide
The dynamics of airflow are fairly complicated and CFM only tells part of the story, so we've created this visual guide to help you choose the right unit. If the icon is dark gray, then that unit is ideal - light gray, then it is usable. *Guide is based on estimates backed by testing and experience.
The Tempest MVU® L125 provides large scale ventilation in a lightweight design. Bearing a large 48”, six (6) blade carbon fiber impeller and 50” custom molded fiberglass shroud, it delivers a calculated nominal 132,000 CFM output and measured airflow of up to 600,000 CFM. The L125 makes no compromise in performance for size or weight. Unlike our MVU® 48 and 60 models, the L125 features no hydraulic system but is belt-driven from a Ford® engine. The L125 ventilation system is manufactured by BIG (big-tempest.de), located in Germany.

MVU® L125 Specifications

Blower (Fan) Output
- Volume of Air: 132,000 Nominal CFM
- Up to 600,000 Measured CFM

Blower (Fan) Assembly
- Shroud Diameter: 48” (1.2 m)
- Shroud Material: Fiberglass
- Impeller: 6-Blades, Carbon Fiber
- Drive: Cogged Belt

Engine (Choice of)
- 121 HP (90 kW) Ford® Duratec 4-Cylinder Gasoline
- 107 HP (80 kW) Ford® 4-Cylinder Diesel

Volt (Fan) Assembly
- Shroud Diameter: 48” (1.2 m)
- Shroud Material: Fiberglass
- Impeller: 6-Blades, Carbon Fiber
- Drive: Cogged Belt

Engine (Choice of)
- 121 HP (90 kW) Ford® Duratec 4-Cylinder Gasoline
- 107 HP (80 kW) Ford® 4-Cylinder Diesel

Standard Features
(Included)
- 48” (1.2 m) Ventilator, Engine & Housing
- Electric Wiring System (12V)
- Instrument Panels
- Advanced Wired Remote Control
- 19.8 gal (75 L) Stainless Steel Fuel Tank
- Painted (Standard Color is Red)

Optional Features & Accessories
- Ventilator Rotation - 360°
- Ventilator Scissor Lift - Up to 51” (1.3 m)
- Ventilator Tilt - ± 30°
- 46.2 gal (175 L) Stainless Steel Fuel Tank
- Integrated Battery Charger
- Ducting System (Mounts to Inlet or Outlet)
- Custom Color Options
- Misting System
- Fixed LED Light(s)
- High Expansion Foam Generator

*For icon explanation, please see page 27.
Wired Remote Control

The **L125** comes standard with an advanced remote control system allowing the user to control every aspect of the unit with the push of a button. This control system features:

- Bright, Full Color Display
- Glove Friendly Body & Controls
- Heavy Duty Housing
- Online Telemaintenance Capability

The Most Used & Trusted

Since its development, the **MVU® L125** has become the most used mobile ventilation unit in the world with an estimated 200 units in service today. Fire departments in countries such as the United States, Switzerland, Japan, China, Indonesia, Germany, Singapore, Thailand, Austria, Israel and others have all chosen this **MVU®** for their large scale ventilation needs.

Mounting Configurations

- Trailer (Single or Tandem Axle)
- Railcar
- Hook-Lift Skids
- Vehicle Chassis
- Other

NOTE: All mounting options can be provided and installed by Tempest.
MVU® L105 Specifications

Blower (Fan) Output
• Volume of Air:
  85,000 Nominal CFM
  Up to 350,000 Measured CFM

Blower (Fan) Assembly
• Shroud Diameter: 40” (1.0 m)
• Shroud Material: Fiberglass
• Impeller: 8-Blades, Fiberglass
  Reinforced Polyamide
• Drive: Cogged Belt

Engine
• 74 HP (55 kW) 3-Cylinder Gasoline

Standard Features (Included)
• 40” (1 m) Ventilator, Engine & Housing
• Electric Wiring System (12V)
• Instrument Panels
• Advanced Wired Remote Control
• Painted (Standard Color is Red)

Optional Features & Accessories
• Ventilator Tilt - +25°, -20°
• Ventilator Rotation - ± 100°
• Ventilator Scissor Lift - Up to 48” (1.2 m)
• Ducting System (Mounts to Inlet or Outlet)
• 19.8 gal (75 L) Stainless Steel Fuel Tank
• Integrated Battery Charger
• Custom Color Options
• Misting System
• Fixed LED Light(s)
• High Expansion Foam Generator
• Custom Mounting Configurations
  Trailer (Single or Tandem Axle), Railcar, Vehicle Chassis, Other

Perfect Combination in Power and Accessibility
The MVU® L105 is the little brother to the L125. Driven by a 3-cylinder in-line engine, the L105’s compact dimensions and reduced weight sets the standard for trailer class ventilation with a potential gross weight of only 1,650 lbs. The unit’s low height offers the perfect solution for fire departments which often deal with low gateways, overpasses, parking structures and more. Even heights as low as six and a half feet are accessible with the L105.

MVU® L80 Specifications

Blower (Fan) Output
• Volume of Air:
  42,000 Nominal CFM
  Up to 118,000 Measured CFM

Blower (Fan) Assembly
• Shroud Diameter: 30” (0.8 m)
• Shroud Material: Fiberglass
• Impeller: 7-Blades, Fiberglass
  Reinforced Polyamide
• Drive: Multi-Rib Belt

Engine
• 21 HP (16 kW) 2-Cylinder, 4-Stroke Gasoline

Standard Features (Included)
• 30” (0.8 m) Ventilator, Engine & Housing
• Electric Wiring System (12V)
• Instrument Panels w/ Controls
• Painted (Standard Color is Red)

Optional Features & Accessories
• Ventilator Tilt - +18°, -10°
• Ventilator Rotation - ± 100°
• Carrying Frame (Detachable Ventilator)
• Ducting System (Mounts to Inlet or Outlet)
• Battery Charging Connection
• Custom Color Options
• Misting System
• Fixed LED Light(s)
• High Expansion Foam Generator
• Custom Mounting Configurations
  Trailer (Single or Tandem Axle), Railcar, Vehicle Chassis, Other

Light Enough to be Carried by Hand
The MVU® L80 bridges the gap between standard positive pressure ventilation fans and mobile ventilation units. It offers the power and performance needed to ventilate large structures such as underground parking garages, schools, department stores, multi-story structures, etc., but is small and light enough to be carried by hand. The L80’s mounting options are nearly limitless and is the only unit available which can be detached from its mount and easily carried by four firefighters to any desired location.
Never Settle

When only inches separate you from the pits of hell, time is short. **VentMaster® Fire Rescue Saws** are built with this in mind. Most mass produced chain and cutoff saws aren't designed to rip through tar, sheet metal, wood and nails, let alone quickly, forcing firefighters to spend more time than needed on the roof.

**VentMaster® Fire Rescue Saws** are built with only premium parts. Starting with industry leading performance power heads from Husqvarna®, we then add a number of exclusive aftermarket parts to ensure the saw is built for the job at hand – a saw that's versatile, durable, reliable and fast.
NOTE: All models listed come equipped with the Raptor Carbide Chain (0.404 Pitch, 0.063 Gauge).

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Part No.</th>
<th>Bar</th>
<th>Engine / HP</th>
<th>Dimensions (WxDxH)</th>
<th>Weight</th>
<th>Depth Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>576HD-20-DG.404</td>
<td>TV400-050</td>
<td>20”</td>
<td>74cc / 5.7 HP</td>
<td>37.00” x 12.50” x 12.75”</td>
<td>24 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>576HD-20.404</td>
<td>TV400-048</td>
<td>20”</td>
<td>74cc / 5.7 HP</td>
<td>37.00” x 12.50” x 12.75”</td>
<td>23 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>576HD-16-DG.404</td>
<td>TV400-051</td>
<td>16”</td>
<td>74cc / 5.7 HP</td>
<td>33.00” x 12.50” x 12.75”</td>
<td>23 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>576HD-16.404</td>
<td>TV400-049</td>
<td>16”</td>
<td>74cc / 5.7 HP</td>
<td>33.00” x 12.50” x 12.75”</td>
<td>22 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>365HD-20-DG.404</td>
<td>TV400-044</td>
<td>20”</td>
<td>71cc / 4.9 HP</td>
<td>37.00” x 12.50” x 12.75”</td>
<td>23 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>365HD-20.404</td>
<td>TV400-052</td>
<td>20”</td>
<td>71cc / 4.9 HP</td>
<td>37.00” x 12.50” x 12.75”</td>
<td>22 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>365HD-16-DG.404</td>
<td>TV400-043</td>
<td>16”</td>
<td>71cc / 4.9 HP</td>
<td>33.00” x 12.50” x 12.75”</td>
<td>22 lbs.</td>
<td>●</td>
</tr>
<tr>
<td>365HD-16.404</td>
<td>TV400-053</td>
<td>16”</td>
<td>71cc / 4.9 HP</td>
<td>33.00” x 12.50” x 12.75”</td>
<td>21 lbs.</td>
<td>●</td>
</tr>
</tbody>
</table>

Plated Steel Splash Guard
Strong and durable to protect the saw during extreme cutting. Mounted with aviation-style star washers to prevent loosening due to vibration.

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

One Step Start/Stop
Combined Choke/Throttle Lock/Stop Switch eliminates flooding and allows fast, convenient starting and One Push positive stop, even with gloves.

“Smart Start” Decompression Valve
Valve reduces cylinder pressure for less starting resistance and easier starts.

Our 576-HD and 365-HD fire rescue chainsaws deliver the absolute best in cutting performance, built specifically for the fire service. Using professional level Husqvarna® power heads and Tempest exclusive after-market parts, no other saw compares.
The X-TORQ Engine

Increases torque over a wider RPM range for maximum cutting power. Larger displacement, best fuel economy in its class, higher peak power, 20% more torque and even better ergonomics for maximum productivity.

1. Sealed & Protected Carburetor/Air Filter
35% better engine cooling due to cover design in relation to cooling fan design. Air Filter cannot be crushed or lost. Tool-less compartment entry for easy access to spark plug, air filter, inspection and cleaning of cylinder cooling fins. Greatly reduces filter clogs.

2. Tool-Less “KIS-40” Depth Gauge
Accurately control cutting depth, protect operator and safely speed cut. Fast, simple installation and removal, and eliminates the need to “roll the rafters”.

3. VentMaster® COBALT Guide Bar
Extremely hard COBALT alloy inserts at the wear points provide excellent wear, galling, and impact resistance. Retains these properties even at very high operating temperatures.

4. Centrifugal Force Air Cleaning System
Preliminary air intake cleaning rejects 97% of cutting residue and other airborne debris including drywall dust, concrete dust, smoke, water spray and more. Cleaner intake air means longer intervals between filter cleanings, longer runs at full power, less chain damage, smoother operation and reduced internal engine wear.

5. Raptor Carbide Chain
Engineered specifically to withstand the rigors of fire and rescue operations. Features an “open dual raker” design to protect the carbide cutters and control the depth of cut.

Tough and versatile enough to cut through:
- Tar and Asphalt Roofing
- Nails
- Light-Gauge Sheet Metal
- Wire-Reinforced Belting
- Trees and Green Wood
- and More
**VentMaster® Fire Rescue Cutoff Saws** provide a number of features you’ll only find with Tempest including a patented depth gauge and stabilizing roller assembly. Built on professional grade Husqvarna® power heads, these saws deliver only the best in cutting performance.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Part No. (Full Option with DG)</th>
<th>Standard Diameter</th>
<th>Available Special Order Guard Sizes</th>
<th>Engine / HP</th>
<th>Blade Speed (RPM)</th>
<th>Husqvarna® Power Head</th>
<th>Cut Depth (14” dia.)</th>
<th>Dry Weight (14” dia.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>375K</td>
<td>TV406-506</td>
<td>14”</td>
<td>12”</td>
<td>74cc / 5.0 HP</td>
<td>4650</td>
<td>K760</td>
<td>4.75”</td>
<td>21.6 lbs.</td>
</tr>
<tr>
<td>397K</td>
<td>TV406-507</td>
<td>14”</td>
<td>12”, 16”</td>
<td>94cc / 6.4 HP</td>
<td>4725 (16” blade-3705)</td>
<td>K970</td>
<td>4.75”</td>
<td>25.1 lbs.</td>
</tr>
<tr>
<td>3120K</td>
<td>TV406-508</td>
<td>14”</td>
<td>16”</td>
<td>119cc / 7.8 HP</td>
<td>5100 (16” blade-4700)</td>
<td>K1260</td>
<td>4.75”</td>
<td>32.1 lbs.</td>
</tr>
</tbody>
</table>

*Full Option Package* is available with or without Depth Gauge, and includes: VentMaster® Concrete Blade, D-Ring Starter Handle, and Stabilizing Roller Assembly.

*Basic Saw Package* includes the necessities, both powerful and lightweight: Saw only, no blades or optional accessories.

- 375K Full (No DG): Part No. TV406-606
- 397K Full (No DG): Part No. TV406-607
- 3120K Full (No DG): Part No. TV406-608
- 375K Basic: Part No. TV406-706
- 397K Basic: Part No. TV406-707
- 3120K Basic: Part No. TV406-708

“Glove Grip” Starter Handle

1. 2. 3. 4. 5.
VentMaster® Diamond Cutoff Saw Blades

Tempest offers a complete line of durable diamond cutoff saw blades for emergency and rescue applications. All VentMaster® Diamond Blades feature industrial grade diamonds that are attached using either a vacuum brazing or laser welding process.

**All-Cut Rescue Diamond Blade**

“All Purpose” blade. Cuts steel, ductile iron, concrete, brick and wood.

**Concrete Diamond Blade**

Cuts concrete pipe, concrete walls.

**Ductile Iron Diamond Blade**

Cuts ductile iron, cast iron.

**VentMaster® Diamond Blade**

Cuts iron pipe, security bars, steel doors.

1. **Stabilizing Roller Assembly**

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

2. **Patented KIS-360 Depth Gauge**

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.

3. **SmartCarb™**

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

4. **DuraStarter™**

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

5. **Active Air Filtration™**

Active Air Filtration™ two-step filtration system with centrifugal cleaning and filter increases product life, extends service intervals and reduces downtime and service costs.

**The X-TORQ Engine**

Increases torque over a wider RPM range for maximum cutting power. Larger displacement, best fuel economy in its class, higher peak power, 20% more torque and even better ergonomics for maximum productivity.
1. **VentMaster® Fire Rescue Chainsaw Upgrade Kit**

   Lawn & Garden Saws Weren't Meant to Cut Through Houses - Upgrade Kit retrofits your current saw to do just that. **VentMaster® Chainsaw Upgrade Kits** are meant to beef up the business end of the saw in order to dramatically increase its cutting speed, versatility and overall durability for ventilation and extrication.

   Kit Includes: **VentMaster® Bar, Raptor Carbide Chain, Saw Sprocket**

   Available for:
   - HUSQVARNA*
   - STIHL*
   - JONSERED*
   - SHINDAIWA*
   - ECHO*

   *Power Head must Exceed 4.5 HP

2. **VentMaster® COBALT Guide Bar**

   Designed and built to withstand high heat and high friction cutting in fire fighting. Innovative COBALT alloy inserts provide excellent protection from wear, galling and impact.

   Available for:
   - HUSQVARNA
   - STIHL
   - JONSERED
   - SHINDAIWA
   - ECHO

3. **Raptor Carbide Chain**

   Engineered specifically to withstand the rigors of fire and rescue operations. Features an “open dual raker” design to protect the carbide cutters and control the depth of cut. The perfect balance in performance, durability and versatility. Available for a wide variety of saw makes and models.

   Available in 16”, 20” Loops and 25’, 50’, 100’ Reels  
   Choice of .375 or .404 Pitch

   Tough and versatile enough to cut:
   - Tar and Asphalt Roofing
   - Nails
   - Light-Gauge Sheet Metal
   - Wire-Reinforced Belting
   - Trees and Green Wood
   - and More

4. **VentMaster® Depth Gauges**

   The **VentMaster® KIS-40** and Patented **KIS-360** Depth Gauges provide rapid yet controlled cutting for all types of fire ground work. Solid cast aluminum construction holds up to the harshest environments. Designed to adjust or be removed in seconds even with gloves.

   Part No. TV410-003  KIS-40 DG  
   Part No. TV426-007  KIS-360 DG

5. **Saw Light & Mounting Bracket**

   Simple bolt on LED torch and swivel mount ensures you’ll always have the visibility you need to complete the job quickly and effectively. Uses industry leading *Streamlight* flashback and Tempest engineered swivel light mount.

   Part No. TV455-020

6. **Saw Sling**

   Makes carrying and using your saw quick and effortless. Simple yet durable design securely fastens on to your saw and increases safety and comfort especially while carry the saw up and down ladders.

   Part No. TV455-002
Our entire line of SHADOW™ Smoke Machines has been improved inside and out, and now offers the perfect solution for any and all levels of need. Of course, every SHADOW™ is backed by the tried and true Tempest name, which has been serving the fire industry for nearly three decades.

**SHADOW™ Blackout**
Ideal for Large Training Applications, Built-In Applications, Large Group Training, Warehouse / Large Frame Aircraft / High Rise

**SHADOW™ Nightfall**
Ideal for Portable Training Applications, Fire Academy Training, Multiple Evolutions, Training in Medium-size Acquired Structures

**SHADOW™ Dusk**

*Smoke Machine performance is most accurately measured through fluid consumption rates (L/h). We do not provide CFM rates as they are not an accurate indicator of actual smoke output and performance.

**Tempest Air Cleaning Kit**
Makes it fast and easy to clean your smoke machine using the compressed air from an SCBA bottle. 75% of Smoke Machine reduced performance and repairs are due to inadequate cleaning after operation. Available for both new model SHADOW™ machines and previous generations.

Nightfall/Blackout Part No. 710-420
Shadow Part No. 710-188
Shadow 1 Part No. 710-189
**SHADOW™ Dusk**  
- 1000 Watt Heat Exchanger  
- Continuous fog output with auto-ramping  
- Chip Resistant Powder-Coated 12 Gauge Steel Case  
- Simple On/Off control switch  
- Remote Control (Included)  
- Robust design for virtually maintenance free operations  
  (regular cleaning only)  
- CE, RoHS Compliant, ETL/cETL (pending)

**SHADOW™ Nightfall**  
- 1200 Watt Heat Exchanger  
- Continuous fog output with auto-ramping  
- Chip Resistant Powder-Coated 12 Gauge Steel Case  
- Modular, common core component design simplifies repair and maintenance  
- Air-input connection for rapid cleaning  
- On-board timer controls with 250 second duration  
- Detachable remote with magnetic case and 10’ (3m) cable (included)  
- Multi-link and daisy chain up to four (4) machines  
- CE, RoHS Compliant, ETL/cETL (pending)

**SHADOW™ Blackout**  
- 1500 Watt Heat Exchanger  
- Continuous blast fog output with rapid reheating cycle  
- Chip Resistant Powder-Coated 12 Gauge Steel Case  
- Modular, common core component design simplifies repair and maintenance  
- Air-input connection for rapid cleaning  
- On-board timer controls with 250 second duration  
- Detachable remote with magnetic case and 10’ (3m) cable (included)  
- Multi-link and daisy chain up to four (4) machines  
- CE, RoHS Compliant, ETL/cETL (pending)

Stand the **Blackout** vertically to deliver smoke up towards high ceilings and through stairwells.
VENTILATION TRAINING

Tempest has teamed up with some of the most respected and well-known names in ventilation to offer an extensive list of experience, research and test based educational materials to help train any Firefighter or Fire Department. Nearly all of these resources and more can be found on www.positivepressuretraining.com, a website sponsored by Tempest Technology Corp.

Publications

BOOK – Positive Pressure Attack for Ventilation and Firefighting
Garcia / Kaufmann
Learn how and why PPA has changed firefighting in this book by Batt. Chiefs (Retired) Kriss Garcia and Reinhard Kaufmann, with Ray Schellie, of the Salt Lake City FD.
Part No. 795-010

BOOK – Fire Ventilation – Svensson
Published by the Swedish Rescue Services Agency, Fire Ventilation combines experience from fire and rescue services and research in the form of experiments and theoretical studies on the subject.
Part No. 910-053

MAGAZINE – Pressurized Fire Attack Precautions: THE BIG THREE - Garcia / Kaufman
Part of the Fire Engineering University Program, Pressurized Fire Attack Precaution: THE BIG THREE helps students understand the difference between positive pressure attack (PPA) and positive pressure ventilation (PPV). Also covered are fire conditions in which fans should not be used and knowing when interior conditions indicate that PPV could be used.
Part No. 910-011

BOOK – Build & Burn - Garcia / Kauffman
Emergency Engineered Solutions is offering an 11x17 book that includes step-by-step instructions, a materials list and diagrams. These plans are for a structure that simulates a simple, 24-foot x 32-foot, single family dwelling.
Part No. 910-010
Expanding on Battalion Chiefs (Retired) Kriss Garcia and Reinhard Kauffmann's years of work in PPA/PPV training, Tempest has established a global network of dealers to aid in positive pressure education. Hands-on Training programs can be custom tailored to your department's specifications, needs, time frame and location. If you're interested in hands-on training, let us know by reaching out to us at 800.346.2143 or response@tempest.us.com.

Photo provided by Kevin Sehlmeyer

Online - Digital Simulation

Available through www.positivepressuretraining.com, Tempest offers access to two, 100% free simulation programs which are designed to take students through a near real-life fire experience and the correct application of PPA.

Audio/Video


This four-hour introduction to Positive Pressure Attack (PPA), presented by Battalion Chiefs (Retired) Kriss Garcia and Reinhard Kauffmann, uses live fire scene video, incident case studies and scientific data to walk students through the theories, tactics and applications of Positive Pressure Attack.

Part No. 910-047

VIDEO – *Evaluating Fire Fighting Tactics Under Wind Driven Conditions* - Kerber / Madrzykowski

Two DVD Set covering NIST's research in the area of wind driven fires, done in collaboration with the Fire Department of New York City, the Chicago Fire Department, and many others. Includes an 86 minute overview along with hours of the test video.

Part No. 910-049

Want More Information on PPV/PPA?

The U.S. Government offers an extensive list of research conducted through the National Institute of Standards and Technology (NIST). You can access this extensive library on the Tempest Technology website, or the NIST website at www.fire.gov.