

## V20-EX Positive Pressure Ventilators < Electric Motor

A PPV fan powered by a single speed hazardous location motor - unmatched durability, a slightly larger PPV with firefighter friendly features - ideal for departments with a medium to large residential and a few commercial structures in their district with the need for a PPV for use in hazardous and explosive environments.

### Features

- < 7 Point Cast Aluminum Airfoil Blade < holds up better than plastic in high heat
- < Precision Spun Steel Shroud < durability with maximum airflow
- < Full Roll Cage Aluminum Frame < protects key components, 15% lighter than steel
- < Solid Cushion Tires < heavy duty rubber, never flat, rolls up stairs and curbs
- < 5 Position Tilt Plate < tilt shroud to multiple angles, can be tilted to negative angles to be placed on stairs or for taller firefighters to easily maneuver
- < StreamShaper Guard < standard guard designed for larger set back
- < Fold Down Ergonomic Handle < folds down within frame for easy, compact storage
- < Compatible With Super Vac Accessories
  - < Spiral Duct
  - < LED Holder
  - < Light Kit
  - < Foam Generator
- < 5 Year Warranty

### Specs

**Motor** < Bluffton, single speed, hazardous location rated Class 1 Group D

**Motor Specs** < 1 Hp, 50/60hz, 115/230V

**HxWxD** < 26" x 25" x 23" < 660mm x 640mm x 590mm

**Blade Diameter** < 20" < 508mm

**Weight** < 82 lbs < 37 kg

**RPM** < 1750

**Start Requirements** < 4000w - 15 amp circuit

**Run Requirements** < 1500w

**Output** < 10,190 cfm < 17,310 cmh





## POSITIVE PRESSURE VENTILATOR

A Super Vac, part number #V20-EX, 20" electric positive pressure ventilator shall be supplied. The unit shall be cart style designed with rear mounted wheels, a full height frame, and a tilt-up, full width handle for easy positioning and rapid deployment. The components of the positive pressure ventilator shall 100% manufactured and assembled in the United States.

The entire frame of the unit shall be constructed of aluminum that shall surround the shroud and the seven-blade 20" airfoil propeller in a roll cage design that shall enhance lifting and user safety. The blade shall be constructed of precision cast of aluminum alloy #A356. The blade shall be driven by the gas engine that shall have a direct drive connection. Any ventilators using plastic or nylon blades shall not be acceptable due to the high radiant heat found on the fire scene.

The shroud and the safety grill shall be designed as to provide maximum air velocity. The positive pressure ventilator shall have a foot activated tilt control with five positions including two position that can direct airflow downward. The standard angle of air direction shall be equipped with positions of the air flow to 15, 8, 0, and -8, -15 degrees above and below horizontal level. Ventilators that do not tilt into a downward direction shall not be acceptable due to the need to fit taller firefighters while moving the unit and the need to easily access the engine controls for starting.

The rubber, never-flat tires shall be engineered to be in the back (engine side) of the fan to help protect the shroud while moving the unit and allow the unit to be re-positioned on the fire scene without turning your back to doorway. Any ventilator with wheels on the shroud side shall not be acceptable.

The PPV shall be powered by a 1 Horsepower electric motor that is limited by Underwriters Laboratory for Hazardous Locations up to and including Class 1, Group D.

The front and rear safety guards shall be designed to OSHA and U.L. Standards to prevent accidental contact with the blade. The unit shall be certified to AMCA 240-15 for air movement and the air movement shall exceed 10,190 cubic feet per minute as listed at [www.amca.org](http://www.amca.org).

The positive pressure ventilator shall be designed with the following:

Motor Manufacturer: Bluffton Explosion Proof Engine

Horsepower: 1HP

Rotations per minute: 1,750 RPM

Output: 10,190 CFM

Dimensions: 26" high x 25" wide x 23" deep

Weight: 82 pounds

The positive pressure ventilator shall have a minimum five (5) year warranty. The engine shall be warranted by the engine manufacturer for a minimum of two (2) years.