

V18-B PPV Electric Motor with Lithium-Ion Battery

The V18-B's electric motor can be powered by a 15-amp GFCI circuit or the supplied lithium-ion battery. This flexible, variable-speed fan provides the perfect combination of size and power, offering precise air movement and up to 80% more airflow than suitcase battery fans. Featuring a patent-pending frame design that is simple and intuitive to position on the fireground, the Valor series is engineered to ease the toughest ventilation challenges.

Frame Features

- 1 **Full-Roll Cage Frame:** Features a tough, tubular aluminum frame to protect key components; delivers a lightweight design (15% lighter than steel frames)
- 2 **5-Position Tilt Frame with Step Pad:** Provides positive/negative angles; allows for fan placement on stairs; allows tall firefighters to easily move fan
- 3 **Fold-Down Ergonomic Handle:** Folds down into frame for compact storage; features full-width handle for easy grip with heavy-duty gloves
- 4 **Flat-Proof Rubber Tires:** Eliminates flat tires; rolls up stairs and curbs easily; tires are placed on the back of the frame so that firefighters never have to put themselves between the PPV and the fire during setup

Fan Features

- 5 **Single-Piece Cast Aluminum Blade:** Holds up better than plastic in high heat
- 6 **Precision-Spun Steel Shroud:** Provides durability with max airflow
- 7 **StreamShaper Guard:** Standard guard, designed for farther setback; Air Cone Guard available by request
- 8 **AMCA Licensed Airflow:** Ratings listed below are based on tests in accordance with Air Movement Control Association (AMCA publication 211) and comply with the AMCA certified ratings program
- 9 **5-YEAR WARRANTY**



18" Blades - H x W x D: 23.5" x 23" x 22" - 600mm x 560mm x 585mm

Model	Weight	Motor	RPM	Run Time	Setback	Angle	Output
V18-B	95 lbs 43kg	Leeson, variable speed, 24VDC	2,477	25 minute battery continuous 120VAC	9 ft 2.7m	10°	8,699 cfm 14,780 cmh



POSITIVE PRESSURE VENTILATOR

A Super Vac, part number #V18-B, 18" battery operated positive pressure ventilator shall be supplied. The unit shall be cart-style designed with rear-mounted cushion tires, a full-height frame and a tilt-up, full-width handle for easy positioning and rapid deployment. All components of the positive pressure ventilator shall be 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 18" airfoil propeller in a roll cage design that shall enhance lifting and user safety. The blade shall be constructed of precision-cast aluminum alloy #A356. The blade shall be driven by an electric/battery-powered motor that shall have a direct drive connection. The blade shall be precision balanced and attached to the engine shaft with a split taper-lock bushing. Any ventilators utilizing belts, pulley, gears or additional shafts shall not be acceptable.

The unit shall be supplied with a Lithium-Ion battery system. The battery shall enable the ventilator to operate for 25 minutes on a single charge delivering maximum and a tremendous amount of airflow.

The shroud and the safety grill shall be designed as to provide maximum air velocity. The positive pressure ventilator shall have a tilt control with five positions, including two positions that can direct powerful airflow downward and make the unit easier to move by taller firefighters and span a step, if needed. The standard angle of air direction shall be 18 degrees above horizontal ground level and shall be equipped with a lever to set positions of the air flow to 15, 8, 0, -8 and -15 degrees above and below horizontal level.

The front and rear safety guards shall be designed to OSHA and U.L. Standards to prevent accidental contact with the blade. The unit must be licensed by AMCA for air movement and listed under PPV at amca.org. The air movement shall exceed 8,699 cubic feet per minute.

The positive pressure ventilator shall be designed with the following:

Motor Manufacturer:	Leeson, 24VDC Motor 2500
Horsepower:	1HP
Speed:	2,477 rpm
Airflow:	8,699 cfm, AMCA licensed
Dimensions:	23.5" high x 23" wide x 22" deep
Weight:	95 pounds

The PPV shall have a minimum five (5) year warranty. The motor shall be warranted by the motor and battery manufacturer for a minimum of two (2) years.

