

V20-BK-SP Variable-Speed Battery Fan

Never in firefighter history has one fan worked with your department's other battery-operated tools. Until now. The all-new Super Vac 20" variable-speed battery fan, equipped with Makita XGT 40v batteries, is the most compatible PPV interface on the market. Finally, the industry can turn to a fan with a trusted battery name that pairs with Super Vac's dependable history.

Frame Features

- 1 **Compact, Roll-Cage Frame:** Features a tough yet lightweight aluminum frame to protect key components while providing a compact, lightweight design
- 2 **Fold-Down Ergonomic Handle:** Folds into the frame for compact storage; features full-width handle for easy grip with heavy-duty gloves
- 3 **Flat-Proof Rubber Tires:** Highly maneuverable, and all without lifting the fan; easy to deploy by the smallest firefighters.
- 4 **180-Degree Tilt:** Provides the largest tilt range among battery fans, allowing airflow to be directed virtually anywhere

Fan Features

- 5 **Makita XGT 40V Batteries:** Provides up to 70 minutes of max airflow, depending on battery selection
- 6 **Polymer Blade:** Minimizes weight; Super Vac's single-piece cast aluminum blade is available by request
- 7 **Precision-Spun Steel Shroud with StreamShaper Guard:** Provides durability with max airflow, while the StreamShaper guard allows for flexible setback; Air Cone Guard available by request




20" Blades - H x W x D: 28.25" x 28.75" x 12.25" - 720mm x 730mm x 315mm

Model	Weight Without Batteries and Shore Power	Motor	Setback For Output Rating	Angle For Output Rating	AMCA 240-22 Certified Output
V20-BK-SP	61 lbs 28 kg	Totally Enclosed Variable-Speed DC	15 ft 4.6 m	10°	9,773 cfm* 16,604 cmh*

*See back for disclaimer.



Battery Options

Compatible Battery	Run Time At Max Airflow
 Makita® XGT 40v 4.0Ah Batteries	35 minutes (with built-in battery gauge)
 Makita® XGT 40v 5.0Ah Batteries	45 minutes (with built-in battery gauge)
 Makita® XGT 40v 8.0Ah Batteries	70 minutes (with built-in battery gauge)

120-240V AC operation is standard (with optional delete).



POSITIVE PRESSURE VENTILATOR

A Super Vac, part number V20-BK-SP, 20" battery operated positive pressure ventilator shall be supplied. The unit shall be designed with a lightweight roll-cage frame and include flat-proof rubber tires and an ergonomic handle that folds into the frame for easy positioning, rapid deployment and compact storage.

The entire frame of the unit shall be constructed of aluminum that shall surround the shroud and a six-blade 20" airfoil propeller in a roll-cage design, which shall enhance lifting and user safety. The blade shall be constructed of polymer and driven by a battery-powered motor with a direct drive connection. Any ventilators utilizing belts, pulley, gears or additional shafts shall not be acceptable.

The unit shall be supplied with dual Makita XGT 40v battery systems (dual 4.0Ah, 5.0Ah or 8.0Ah batteries) that is commercially available for low cost and ease of replacement. A dual 8.0Ah battery system shall enable the fan to operate for up to 70 minutes on a single charge delivering a maximum amount of airflow; the 5.0Ah battery system shall operate for up to 45 minutes; the 4.0Ah battery system shall operate for up to 35 minutes. Fans using proprietary battery systems shall not be acceptable due to higher cost and limited supply.

The shroud and the safety grill shall be designed to provide maximum air velocity. The positive pressure ventilator shall have 180-degree tilt capability. The front and rear safety guards shall be designed to OSHA and U.L. Standards to prevent accidental contact with the blade.

The fan shall include shore power, allowing continuous operation off any 120-240V AC supply.

The air movement shall meet 9,773 cubic feet per minute. Results must be based on data documented during comparable AMCA 240-22 testing procedures.

The variable-speed battery fan shall be designed with the following:

Motor:	Totally Enclosed Variable-Speed DC
Power:	1 HP
Speed:	2,086 rpm
Airflow*:	9,773 cfm (16,604 cmh)
Dimensions:	28.25" x 28.75" x 12.25" (720mm x 730mm x 315mm)
Weight:	61 lbs. (28 kg) (Weight without batteries / shore power)

The PPV shall have a minimum five (5) year warranty. The battery and charger are warranted by Makita for three (3) years. See makitatools.com for details. Motor shall be warranted for a minimum of three (3) years.

*The listed ratings are based on tests and procedures in accordance with AMCA Standard 240-22. All other outputs in this chart are based on results from comparable AMCA 240-22 testing procedures. The AMCA 240 Standard was revised in 2022 to specifically test battery-powered PPV fans and was created in collaboration with industry experts, select firefighters and PPV manufacturers.

The new test reflects improved variables, including a smaller doorway (to match international standards), constant power supply (since battery power drops over time) and documentation of battery runtimes (to assure accuracy). These variables deliver more accurate, yet lower airflows compared to identical fans tested to the old AMCA 240-16 standard.

