

## **BID SPECIFICATIONS**

### **ALL-TERRAIN PORTABLE PPV FAN**

1. All-terrain portable PPV fan shall have a fail-safe 24-inch, two-blade, aircraft-style propeller consisting of a vibration-dampening wood core with pressure-bonded, quadruple-layer fiberglass and Kevlar® outer structure.
2. Fan shall have three independently adjustable, outward curving, powder-coated legs made of solid aluminum, which:
  - Allow the fan to straddle 12-inch high ground debris and be placed on stairs or uneven ground; and
  - Raises the fan's propeller at least 14 inches above the ground in order to allow aiming of the air stream over obstacles such as residential entry steps.
3. Fan shall be gasoline powered and equipped with a 4.6 hp\* GC160 motor.
4. Fan's full-throttle ungoverned engine speed shall not exceed the engine manufacturer's redline of 4,000 RPM.
5. Fan air stream shall not exceed the OSHA 8-hour permissible exposure limit of 50 ppm carbon monoxide content.
6. Fan noise level shall not exceed 95 dB measured from 4 feet behind the fan at full throttle.
7. Fan, with legs fully retracted and before any accessories are added, shall
  - Measure 27 inches long x 22 inches wide x 28 inches high, and
  - Weigh less than 65 pounds.
8. Fan shall produce at least 23,800 CFM, verified by a thrust value of 19 pounds or more.
9. Fan's free-flowing wire guard which excludes objects larger than a 1/2-inch diameter probe.
10. Fan shall be covered by warranties of:
  - 3 months on the engine, and
  - 5 years on all other components, workmanship, and materials.
11. Fan shall come with one Ultimate Door Stop which can be used in at least four different ways to hold a door open at a 90° angle.
12. Fan shall be available with the following optional accessories:
  - Spark Arrester which is self-cleaning, contains fine wire mesh that captures carbon particles released during combustion, and meets National Park/Forest requirements.
  - Digital combination tachometer and hour meter which tracks RPM and total hours.
  - Small Solid Rubber Wheels and Skids which includes two 5-inch diameter polyurethane wheels with ABEC-5 bearings, two powder-coated steel stair skids located on the front of the fan which allow for easy sliding of the fan up and down stairs/curbs, and a handle that moves straight up and down from the center of the fan.
  - Medium Flat-Free Wheels and Skids which include two solid microcellular polyurethane foam tires with zinc-plated, two-piece steel hubs that measure 6 inches in diameter by 2 inches wide, two powder-coated steel stair skids located on the front of the fan which allow for easy sliding of the fan up and down stairs/curbs, and a handle that moves straight up and down from the center of the fan.
  - Large Pneumatic Wheels which includes two pneumatic tires that are air-filled, measure 8.5 inches in diameter by 3 inches wide, and a handle that moves straight up and down from the center of the fan.
  - Low-pressure water Misting Ring Kit made of stainless steel, which includes a flushable 22-micron filter, eight adjustable nozzles, and operates at maximum pressure of 150 psi.

*\*The horsepower rating of the engine indicated in this document is the net power output tested on a production engine for the engine model and measured in accordance with SAE J1349 at 3600 rpm.*