

# Smog-Hog®

## PCN® Mobile Fume/Mist Collector



### Capture Pollutants at the Source:

Using electrostatic precipitator (ESP) technology, the PCN is applied to oily welding fume, metal oxide fume and mist applications. As particulate is captured by the optional extraction arm or inlet collar, the ESP collection cell electrically charges the microscopic contaminants, then captures them much like a magnet. Easily cleaned and reusable pre-filter and main filter aluminum ESP collection components drastically reduce maintenance and costs for filter replacement and disposal. And, because each collection cell can hold more than one pound of welding fume oxide before cleaning is required, maintenance time is minimized.

The source capture swing arm and extraction hood are positioned directly over the smoke, mist or fume source to remove dangerous contaminants that can cause respiratory problems and create safety and maintenance concerns - a situation that can cost lost work time, workers compensation costs and OSHA compliance violations.



### Contact Information:

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### Features and Benefits:

- Reduces make-up air requirements by cleaning and recirculating the air
- Exhausts clean air through a vertical outlet, directing exhaust toward the ceiling instead of the user
- Reduces maintenance costs by eliminating smoke, mist, and fume before particles can settle on equipment and work surfaces
- Helps meet OSHA indoor air quality standards
- Exclusive XA arm hood design makes the PCN even more effective in capturing smoke and fumes
- The bell-mouth shaped hood collects smoke at a greater distance than any other hood design

**ENGINEERING YOUR SUCCESS.**

## Specifications:

**1) Cabinet** – Constructed of 16-gauge welded steel with internal structural rails top and bottom. A hinged door with an electrical interlock safety device provides access to the collection components. An access panel provides entry to the motor/blower compartment to permit easy adjustments. The cabinet is prepared in a phosphatized wash cycle. The finish coat is electrostatically-applied powder polyurethane paint baked to ensure a durable hard finish.

**2) Prefilter** – Heavy-duty, reusable filter constructed of layered expanded aluminum mesh contained in an aluminum frame.

**3) Ionizer** – Constructed of an extruded aluminum airfoil frame which shields the ceramic insulators from the airstream. Each tungsten ionizing wire is spring-mounted from dieformed support bars. Contact with the high voltage source is made through contact springs requiring no mechanical connections.

**4) Collection Cell** – Contains 20,160 square inches of surface area and is constructed of specially-formed aluminum to maximize collection efficiency. Rods are inserted for rigidity and control of spacing between high voltage and ground plates. The insulators are shielded from the airstream by inverted end plates. Contact with high voltage source is made through contact springs requiring no mechanical connections. The collection cell weighs 29 pounds and is equipped with a riveted steel handle, making it easily removable for periodic inspection and cleaning.

**5) Power Pack** – Provides 11,000 volts DC to the ionizer and 6,000 volts DC (nominal) to the collection cell. Self-regulating power pack for input voltage variations from -30% to +13% of nominal rating.

**6) Motor/Blower** – Produces air movement with a belt-driven, centrifugal-type blower with sealed ball bearings and cast iron pulleys. The blower is driven by a heavy-duty, totally enclosed 1/2 or 1 HP motor. Motor/blower has adjustable base to facilitate seNicing. A vari-pitch pulley is used on the motor to enable RPM variation.

**7) Power Cord** – 10 foot, 16-gauge 3SJ with molded plug.

**8) Dust Drawer** – Removable drawer to collect fallen dry particles.

**9) Optional Swing Arm Assembly** – Parker's XA extraction arm source capture hood with 8 inch diameter, 7 / 10 / 12 foot long, easily-adjustable source capture swing arm as standard.

### Dimensions (H x W x D)

A-arm length – 84, 120 or 144 in.

B-unit height – 44 in.

C-unit length – 42 in.

D-unit width – 28 in.

### Weight

400 lbs.

### Electrical

115V/1Ph/60Hz, 0.5 HP

(ETL Listed) 7.4 amps

### Optional Motor

1.0 HP

### Optional Voltage

230V/1Ph/60Hz

### Airflow

1,000 CFM (nominal)

### Swing Arm Options

8" diameter, 7/10/12' length arm

8" inlet collar in place of swing arm

