

PSH Series

MODULAR ESP MIST COLLECTORS



ENGINEERING YOUR SUCCESS.



The ESP Edge

The key to the PSH Series' superior performance is electrostatic precipitation. Used by our engineers for more 50 years, this process charges particles and strips them from the airstream via an electrostatic field, capturing even submicronic contaminants, and leaving only clean air to be exhausted from the unit. The result is cleaner air and the elimination of costly compliance problems.

Efficient and Safe

The PSH Series offers the highest efficiency levels in emission collection, with the ability to handle airflow applications ranging from 750 to 40,000 CFM. Each system comes equipped with Ionizers, which effectively charge particles and ensure even distribution of energy across Collection Cells.

PSH units use a nonlethal, UL recognized power supply for safe operation and maintenance by specially trained plant personnel. The low-energy, self-regulating power supply adjusts voltage based on contaminant loading, assuring safe and continuous operation at the highest efficiency level.



Improve industrial air quality now and avoid costly fines and retrofit expenses in the future!



Face Compliance Issues Head On

PSH units ensure compliance with even the strictest federal, state and local environmental standards. These systems work hard to stop contaminants before they settle on neighboring parking lots and buildings — helping you and your company maintain a positive image and avoid costly compliance fines. Visible industrial process emissions are eliminated, and odors are reduced!

PSH Series

Solving and Controlling complex process emissions.

Industrial Air Cleaners — One Size Fits All

Since no single air cleaning technique is able to control every industrial emissions problem, our engineers developed the SmogHog PSH Series.

This modular system can be constructed in a variety of sizes to fit your company's specific dimensional and application needs. PSH units can be installed indoors or outside a facility, and use a combination of filtering processes to precondition and clean even the most polluted airstreams.

Applications

Developed specifically to collect heat-generated organic vapors and particulate, PSH mist collectors control hazardous emissions which pose a threat to the environment and your business. These units are ideal for companies that need a customized engineered solution for tough emissions from asphalts, industrial cooking, plasticizers, manufacturing processes, textiles and rubber.

Common Uses

Asphalts

- Coatings
- Hot mix plants
- Saturators

Industrial Cooking

- Coffee/Peanut roasters
- Hot oil fryers
- Smokehouses

Textiles

- Tenter frame ovens
- Yarn coating and extrusion

Rubber

- Buffing
- Curing
- Grinding
- Recycling

Plasticizers

- Blown film
- Calandaring
- Curing oven
- Coatings
- Extrusion
- Nylon
- Plastics
- Polyethylene
- Polystyrene
- Texturizing
- Vinyl

Manufacturing Processes

- Furnaces
- Laser etching and cutting
- Metal sintering
- Oil mist or smoke
- Soldering
- Wax vapors
- Wire drawing



Configured to Your Needs

SmogHog PSH systems offer the unique flexibility to accommodate any air volume or building parameter, including areas where traditional exhaust configurations are impractical. A UAS Representative can assist you in selecting the right system for your facility. Before recommending a unit, a factory-trained Representative will carefully evaluate precooling, heat recovery, odor control and other criteria in your plant. Then, a PSH system is created specifically to match your company's requirements.

In addition to the basic PSH unit, which includes the Cabinet, Power Pack, Ionizers and Collection Cells, an assortment of airstream conditioning equipment is available to complement the central system.

Preconditioning System

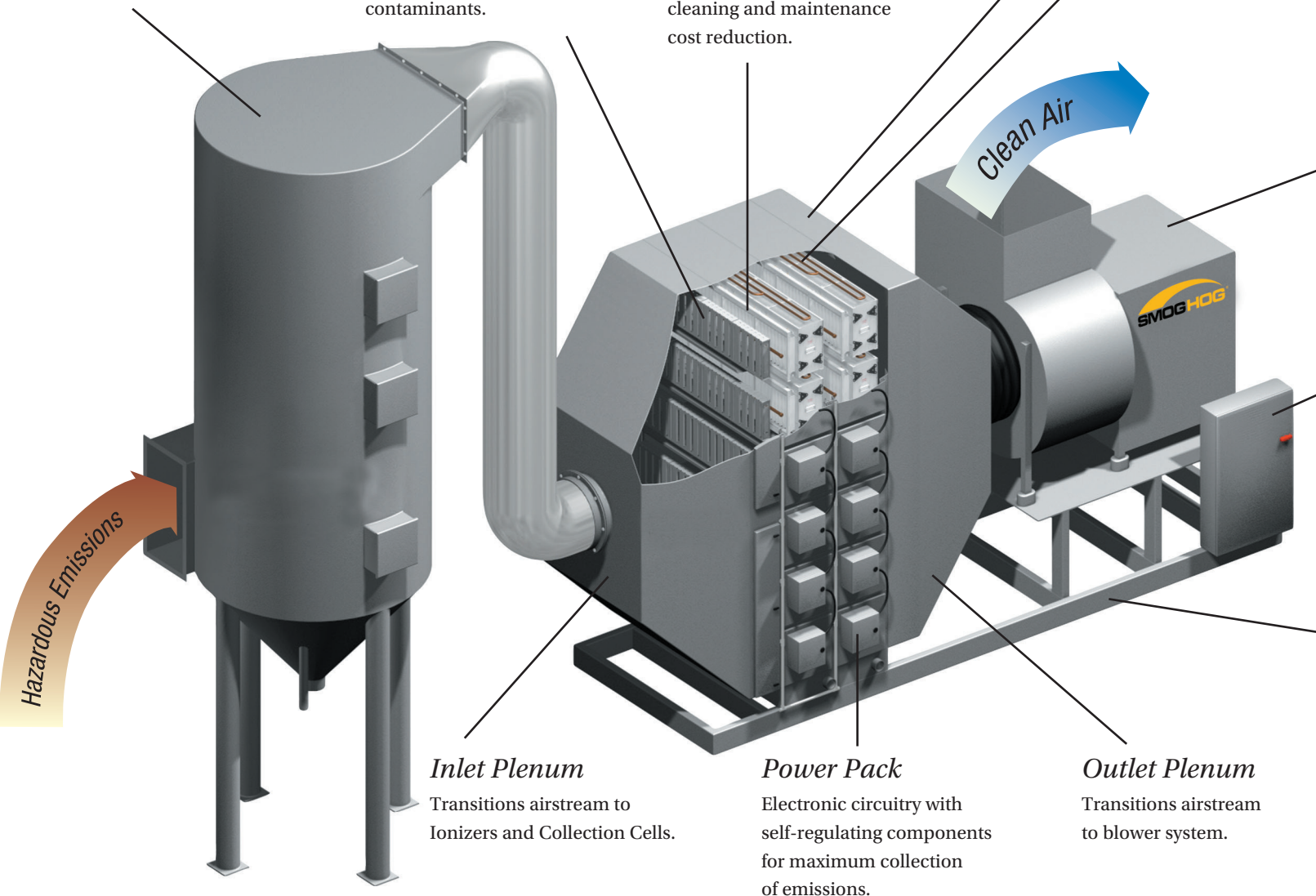
Process optimizes airstream temperature and humidity for maximum collection of large contaminants.

Impingement Baffle Prefilter

Adjustable interlocking "C" channels provide tortuous path for even airflow distribution and collection of large contaminants.

In-Place Cleaning System

Fixed-face and overhead wash headers clean collection components in place. PLC controlled for optimum cleaning and maintenance cost reduction.



Inlet Plenum

Transitions airstream to Ionizers and Collection Cells.

Power Pack

Electronic circuitry with self-regulating components for maximum collection of emissions.

Outlet Plenum

Transitions airstream to blower system.

Cabinet

Heavy gauge steel construction area collects and drains emissions to a bottom sump. Sumps and drains handle all contaminant run-off from in-place cleaning system.



Ionizers and Collection Cells

Unique airfoil design with convoluted insulators and heavy-duty tungsten ionizer wires ensure maximum efficiency, reduced maintenance and long life.

...ability to handle airflow applications ranging from 750 to 40,000 CFM

System Blower

Blower includes backward inclined wheels for quiet, efficient operation.



Controls

Skid-mounted panel can operate all equipment functions. Panels can be remote-mounted as required, and entire system can be tied to a plant-wide distributive control system.

Structural Steel Skid

Heavy structural channel base integrates system and facilitates installation.



Parker Hannifin is committed to providing clean air solutions that protect your employees, improve plant performance and enable you to realize your operating goals.

Our commitment is backed by continuous investment in research, leading-edge technology and product development, our people whom are the most knowledgeable in the industry, and a product portfolio that is proven to deliver results. We have been solving problems for you, our customers across the globe for over 50 years.

Industrial Applications

- CNC Machining
- Laser and plasma
- Cold Heading
- Food Processing
- Plastics Processing
- Asphalt
- Textiles
- Rubber
- Welding

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