

Wet Scrubbers

Wet Scrubbers are effective air pollution control systems for removing gasses and/or particles from modern fumes streams. Wet scrubber work by introducing the dirty gas stream with a scouring liquid - typically water. Gasses or Particulate are gathered in the scrubbing liquid.

Wet scrubbers are generally the most appropriate air contamination control device for gathering both gas and particulate in a single system.

Pollution Systems offer a many types of Wet Scrubber systems, especially designed for your procedure application. Many important operating variables are considered when assessing the size and kind of scrubber for any particular application. We will work with you and use our experience and information to give the most possible solution for your procedure.

Counter Current Scrubber



- Capacities from 2000 to 100,000 CFM
- Vertical design and small footprint to save floor space
- Lower shell serves as integral sump for recycle of liquid
- Single spray nozzle liquid distributor for minimalist fouling
- Special multi-bed designs accommodate different scrubbing solutions for removal of multiple contaminants

Typical applications that benefit from counter current scrubber

- Automotive
- Chemical
- Fertilizer
- Food & Agricultural
- Incineration
- Metal Processing & Coating
- Mining & Material Processing
- Pharmaceutical
- Pulp & Paper

Venturi Scrubber



High removal efficiency in a cost-effective solution. Venturi scrubbers combine with high removal efficiency, making them ideal for a broad range of industrial and manufacturing applications.

Features and Benefits

- Used primarily for particulate removal
- Recommended for exhaust streams containing particles with a defined size distribution
- Can achieve moderate gas absorption for soluble/reactive gases

How it Works

The venturi throat is designed to provide proper gas acceleration and liquid droplet shearing to ensure adequate contact between the particulate and recycled liquid for impingement. Throat pressure drop is a function of particle size. The smaller the particle to be removed, the smaller the throat and the higher the pressure drop.

Packed Scrubber



- Designed for small to medium gas flows
- Special gas sparger design eliminates the need for a recirculation system
- Available in 7 standard sizes from 500 to 7,000 CFM
- Greater than 90-95% removal for soluble/reactive gases
- Completely preassembled including control panel and automation
- Lightweight, corrosion-resistant polypropylene construction