

# MONROE Multiple Venturi Air Scrubber



- Wet type dust collector
- Removes chemical fumes
- No pump required
- Efficiencies up to 99.9%
- No moving parts in wash zone
- Minimum maintenance
- Capacities from 500 to 60,000 CFM

## Customized to Meet Your Needs

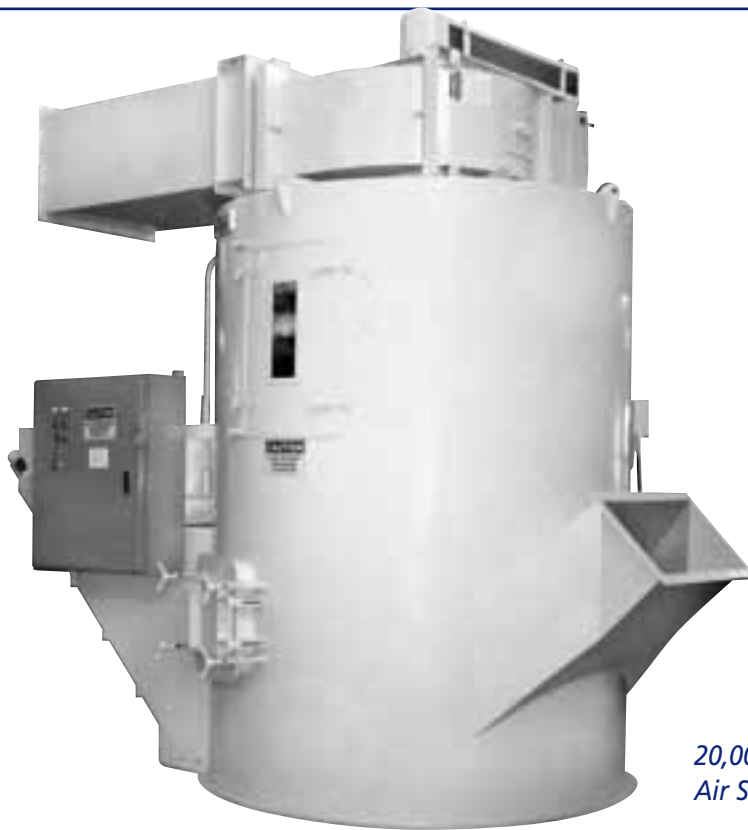
The Monroe Venturi Air Scrubber is a unique design, wet type, high velocity, high efficiency unit with no moving parts. It is designed to remove airborne contaminants from industrial exhaust systems and process gases.

The airflow itself activates turbulent washing action without a pump. The air and scrubbing liquid, alternately flow in and out of small venturi slots in the multiple venturi section.

A high kinetic energy is imparted to the particles contained in the dirt-laden air, and the airflow itself causes a high degree of atomization of the wash liquid.

The tangential whirling flow pattern of both air and liquid ascends the multiple venturi sections with dynamic impingement creating high collection efficiency.

The wash liquid is driven to the outside of the top moisture eliminator section of the scrubber by centrifugal force, then drains back to the bottom reservoir.



*20,000 CFM  
Air Scrubber*

Entrained dirt particles settle to the bottom of the reservoir. Clean wash liquid is drawn from the surface of the reservoir and recirculated in a closed system, thus reducing water consumption.

### Ideally Suited for Removal of:

- Cast iron
- Chemical fumes
- Explosive dusts
- Forging smoke and fumes
- Foundry dust and fumes
- Machining and grinding exhaust
- Paint overspray
- Shot blast

### Minimum Maintenance, No Moving Parts

The Monroe Multiple Venturi Air Scrubber contains no moving parts. The entry area and the venturi throats are self-cleaning.

The maintenance requirements for this unit are low. It is not necessary to enter the structure for cleaning, as is required with many other air scrubbers. There is no packing required, water distributors to clean, nozzles to maintain, or mechanical devices to cause downtime.

Once placed on line, the Monroe Multiple Venturi Air Scrubber operates continuously with sustained efficiency.

## MONROE Multiple Venturi Air Scrubber

### Multiple Venturi Efficiency

Normally, the high efficiency of a single stage Monroe Multiple Venturi Air Scrubber will handle most industrial processes. For difficult applications two or three stage systems are available.

### Remove Chemical Fumes

High removal efficiency can be achieved on chemical fumes because of excellent liquid/gas contact and long residence time.

The self induced water recirculating system provides a convenient means of adding neutralizing chemicals.

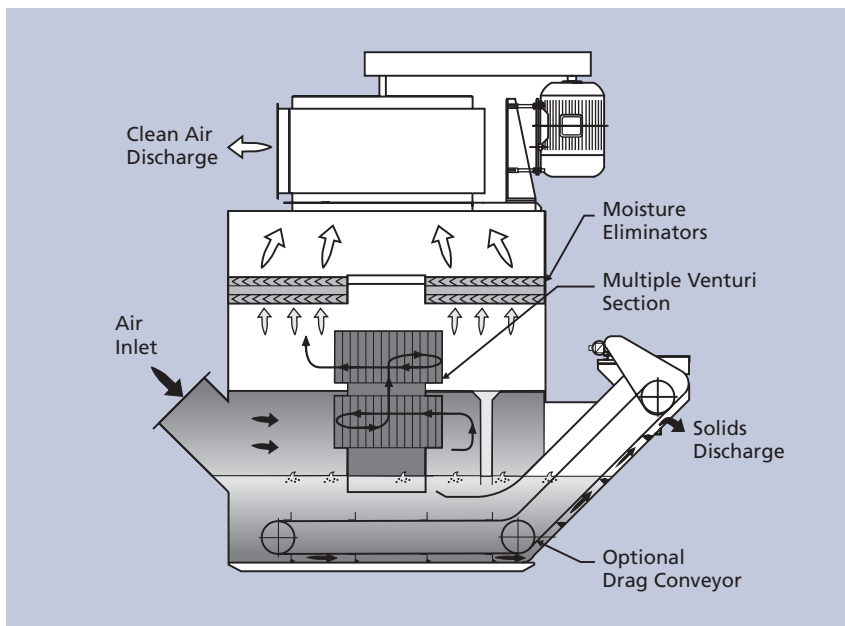
### Special Features

An optional drag conveyor can be included for continuous removal of settled sludge for heavy dirt loads.

**Wide range of construction materials.** Mild steel, special coatings, stainless steel, fiberglass and numerous other materials are available to meet intended applications.

**No moving parts** in the collection area eliminates costly shut-down due to wear and abrasion, assuring optimum performance under continuous operating conditions.

**Complete electrical controls** are available to meet customer specific requirements.



### Many Configurations Available

Monroe Multiple Venturi Air Scrubber complete systems are available including a liquid clarifier, chemical feed equipment, instrumentation and electrical controls.



**MONROE  
ENVIRONMENTAL**

*Manufacturer of Industrial Filtration Systems*

11 Port Avenue, P.O. Box 806  
Monroe, Michigan 48161 USA  
Phone: 1-800-992-7707 or 734-242-7654  
Fax: 734-242-5275

[www.monroenvironmental.com](http://www.monroenvironmental.com)

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