

MONROE Dry Dust Collectors

- Long life pleated cartridge filters
- Broad range of filter media available
- Applications up to 350°F
- Easily install and remove cartridges
- Modular construction
- Efficiencies up to 99.9+%
- Capacities from 500 to 50,000 CFM

Efficient, Self-Cleaning Design

The Monroe Cartridge Dust Collector is designed to provide continuous-duty collection and removal of airborne dust produced by manufacturing and processing operations at 99+% efficiency on many installations. Through the use of a Monroe Cartridge Dust Collector, these operations can discharge clean, filtered air back into the work area, reducing climate control costs.

The Monroe Cartridge Dust Collector modular design incorporates high efficiency, pleated cartridge filters to achieve maximum filter surface area in a relatively small housing. The cartridges are designed to provide a low static pressure drop.

Cartridge cleaning is accomplished by reverse compressed air pulses through a few cartridges at a time, allowing continuous operation without shut-down. These reverse pulses, with a velocity twice the speed of sound, break away caked dust from the cartridge so that it can drop to the collector bottom.

Ideally Suited for

- Bulk solids handling
- Chemical processing
- Dry machining and grinding
- Powder coating
- Shot blast and welding operations



Custom configurations, including ceiling or roof designs, are available where a standard collector cannot be used. 30,000 CFM Dust Collector with screw auger option for dust removal shown.

Top Performance with Better Filter Cleaning

The dust cartridges in the Monroe collector are mounted in a vertical position. This assures that when the collected dust is pulsed from the cartridges, it falls to the bottom of the collector.

In units with horizontal cartridges, dust pulsed from above cartridges fall on top of the cartridges below. This reduces filtration capability and requires additional maintenance to rotate the cartridges. This is avoided in the Monroe unit.

The Monroe cartridges are easily accessed with pull out racks when replacement is necessary.

Baghouse Dust Collectors

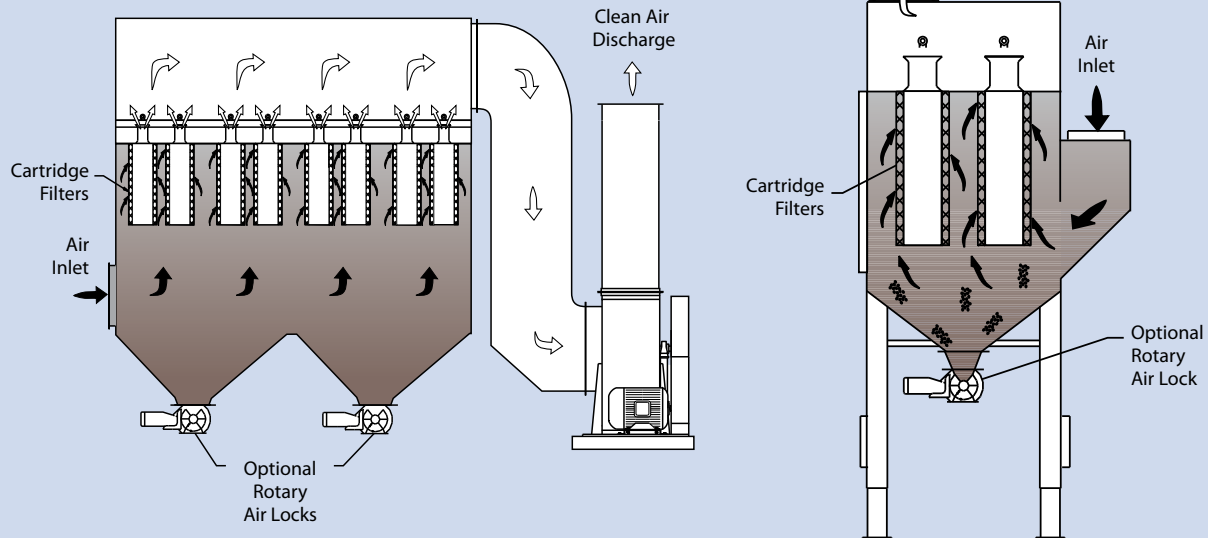
Bag filters can also be used in place of cartridge filters depending on customer specifications and application requirements.



*2,500 CFM
Baghouse Dust
Collector*

MONROE Dry Dust Collectors

Cartridge Dust Collector Configurations



1,000 CFM Cartridge Dust Collector with drum kit

Broad Range of Industrial Capacities

The Monroe Cartridge Dust Collector is available in capacities from 500 CFM to 50,000 CFM in a single unit, and may be integrated with existing ductwork and ventilation systems.

An **AMCA rated fan** on the outlet side of the collector with either a direct coupled motor or an optional "V" belt drive.

Quiet operation. Flexible duct connections, fan mounting isolators, sound attenuators and fan enclosures are available.

Integral pressure gauges are available to indicate when filter maintenance is required.

Standard dust removal is via a slide gate. Options include rotary air locks or an integral screw conveyor.

Complete electrical controls are available to meet customer specific requirements.

Special Features

Heavy gauge steel is used for most installations, but special construction materials are available to meet specific applications. Welded seams and built-in lifting hooks provide rugged durability.

Large, easy to open access doors, each with air-tight seals, are provided for inspection and cartridge servicing.

Monroe Environmental designs and builds air/gas cleaning and odor control equipment including:

- Packed Bed Scrubbers
- Venturi Particulate Scrubbers
- Dry/Carbon Adsorbers
- Dry Dust Collectors
- Oil Mist Collectors
- Complete Engineered Systems



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