

Choosing the appropriate dust control solution for your application is critical for environmental compliance, health and safety, and plant cleanliness.

MCCOY

MCCOY FV 300

FILTER VENT WITH JET PULSE CLEANING

McCoy brings you the latest in total dust control.

What is fine particulate matter?

Particulate matter is characterized according to size - mainly because of the different health effects associated with particles of different diameters. Particulate matter is the general term used for a mixture of solid particles and liquid droplets in the air. It includes aerosols, smoke, fumes, dust, ash and pollen. Fine particulate matter is particulate matter that is 2.5 microns in diameter and less. It is also known as PM_{2.5} or respirable particles because it penetrates the respiratory system further than larger particles.

What are the sources of fine particulate matter?

- Aggregate transfer
- Sand transfer
- Cement unloading to elevated storage silo
- Cement Supplement unloading to elevated storage silo
- Weigh hopper loading
- Mixer loading
- Truck loading
- Wind erosion from aggregate and sand storage piles.

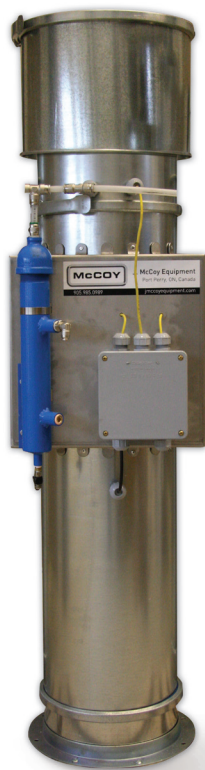
What are the effects of fine particulate matter?

The greatest effect on health is from particles 2.5 microns or less in diameter. Exposure to fine particulate matter has been associated with hospital admissions and several serious health effects, including premature death.

Fine particulate matter is also responsible for environmental effects such as corrosion, soiling, damage to vegetation and reduced visibility.

Most of this information has been taken from the Ontario Ministry of Environment website.

To read the full article please visit www.airqualityontario.com/science/pollutants/particulates.cfm



The McCoy FV- 300 filter vent provides an efficient yet inexpensive solution for dust and particulate matter emissions with air flows to 300 cubic feet per minute (CFM). It is the ideal solution for smaller projects like cement scales and may be used for larger applications such as cement storage silos when used in multiples.

Similar to the DC-300 dust collector, The McCoy FV- 300 is a compact cylindrically shaped Filter Vent used for venting pneumatically filled silos as well as cement scales, weigh hoppers, or mixers.

INCLUDES

- Galvanized steel/stainless steel with optional fully stainless steel construction.
- Single 280 CFM capacity filter
- Dimensions 12" diameter and 62" tall
- Maintenance-free air jet cleaning unit integrated inside weather protection cover.

OPTIONS

- **Filter Vent Controller for Silos (FV-C1)** - A built-in differential pressure switch will automatically activate the jet pulse cleaning once back pressure is sensed during the silo filling process and it will run until the pressure is eliminated (note - a delay timer will keep the unit running for a pre-determined period of time after the pressure switch is de-activated)
- **Filter Vent Controller of Cement Scale (FV-C2)** - The same input signal that opens the cement scale discharge gate can be used as the input to start the jet pulse cleaning and a delay timer will keep the unit running after the input signal is removed for a pre-determined period of time.

FEATURES AND BENEFITS

- Filter media has Metal top construction and Dual Seamless Seal (DSS) design allows for a superior fit and dust-tight seal to prohibit tube sheet leaks. Metal top can also withstand higher operating temperatures versus urethane tops, which can rot and split.
- Pleat+Plus® filter element facilitates higher throughputs, longer life, and higher efficiencies than Baghouse systems.
- Pleat+Plus® filter elements can reach filtering efficiencies of 99.99362% for PM_{2.5}
- Wide and shallow pleat design improves dust cake release. Pleat anchored band with riveted overlap reduce failures in heavy industrial applications.
- Valve mounted on/off pulse timer.
- Pulse jet valve with on/off duration timer, requires 120 VAC for duration of cleaning cycle.
- Requires 120 power and 60 psi of air pressure.