

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

**McCoy**

# WAM SILOTOP®

R01 SERIES SILO VENTING FILTER



## 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<sub>2.5</sub> 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](http://www.airqualityontario.com/science/pollutants/particulates.cfm)



SILOTOP® is a cylindrically shaped dust collector for venting of pneumatically filled silos. The stainless steel body contains vertically mounted, POLYPLEAT® filter elements. The air jet cleaning system is integrated in the hinged weather protection cover.

Dust separated from the air flow by special POLYPLEAT® filter elements drops back into the silo after an integrated automatic reverse air jet cleaning system inside the weather protection cover has removed it from the filter elements.

Originally designed for cement and similar materials, SILOTOP® can be used with any dust generating material as long as it is dry and does not pack under pressure.

## INCLUDES

- Compact 800mm (30 in) diameter 304 stainless steel body with bottom flange.
- Low dust emission level due to B.I.A.-certified POLYPLEAT® filter media.
- Maintenance-free air jet cleaning unit integrated inside weather protection cover.

## OPTIONS

- Weld-on bottom ring.
- Multifunctional electronic differential pressure meter.
- Winter protection for solenoid valves.

BODY	FILTER SURFACE	MAX. HEIGHT WHEN CLOSED	MAX. HEIGHT WHEN OPEN	LBS (KG)
Ø 31.5 inches (800 mm)	264 ft <sup>2</sup> (24.5m <sup>2</sup> )	45 inches (1145 mm)	73 inches (1850 mm)	225 (102)

## FEATURES AND BENEFITS

- High cleaning efficiency due to "Full-Immersion" solenoid valves incorporated in corrosion-resistant aluminium air tank.
- Safe 304 stainless steel weather protection cover with lockable snap hook
- No tools required for filtering element removal.
- Reduced flow resistance and prevention of rust due to special 304 stainless steel air distributors.
- Standard fitting of condensation release valve on air reservoir.
- McCoy exclusive pressure actuated automatic start for unmanned operation.

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