



Cartridge Type Dust Collector

The compact cartridge type dust collector with the dust container bucket is capable of filtering dust-laden air through suitable filter media capable to have dust emission level of 10 mg/Nm^3 .

The dirty or contaminated air enters the dust collector through the module inlet and passes through a number of filter cartridges, which retain the dust particles on the exterior surface while allowing clean air to pass through the module outlet.

As the collector operates, the collected dust begins to form dust cake, which eventually diminishes the porosity of the filter cartridges. As the pressure drop increases the ventilation volume of the collector decreases.

To maintain a moderate pressure drop, the cleaning cycle is employed to provide continuous cleaning of the filter cartridges. The cleaning system consists of a solid-state programmable timer, which actuates electric solenoids governing the air valves. These air valves deliver momentary burst or pulse of high compressed air through the manifold pipe into the filter tube. This push of air creates reverse flow of air, which expands the filter cartridges to remove the collector dust.

The cleaning procedure occurs on a row-by-row basis therefore only a fraction of total filter air is interrupted for cleaning allowing continuous ventilation.

The dust cake when pulsed from the filter cartridges falls directly into the bucket at the bottom where it is removed.

An exhaust fan suitable for air volume 1000 cubic feet per minute and is mounted on the top of dust collector, which generates the negative draft through out the process.

SALIENT FEATURES

- The complete installation is designed to occupy a minimum amount of floor space and overhead room.
- It can be assembled on site without any requirement of the expertise manpower.
- The units are of fully welded construction.
- It has no moving part, which guarantees a long life.

