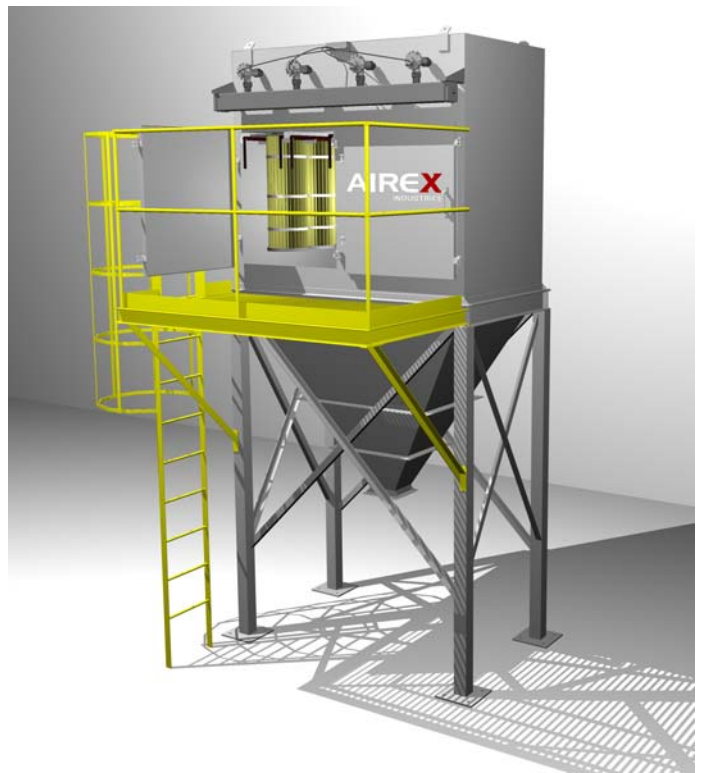


CARTRIDGES DUST COLLECTOR
DCCH Series





General points

The **Airex Industries** DCCH dust collectors series distances themselves with the ability to filter highly contaminated air volumes while remaining extremely compact. The cartridges are combined with an efficient self-cleaning system of compressed air allowing the filtration of sub-micronics dust particles in a continuous operation and with a constant differential pressure loss.

Our DCCH series includes sealed mechanisms and access doors for easy access and requires no tools to carry out the change of filter cartridges.

In order to choose an adequate Airex DCCH dust collector you need to consider the following:

- 1- Type of dust
- 2- Dust concentrations
- 3- Process conditions :
 - Temperature
 - Humidity
 - Corrosive agents
 - Dew point
- 4- Physical constraints
- 5- System static pressure
- 6- Capture dust disposal method
- 7- Fire protection as per the NFPA





Theory of operation

The dust laden gases enter through the side intake of the dust collectors hopper, under vacuum or pressure (except for bin vents, where the air comes in from the bottom).

The gases are then filtered through the cartridges, and exit through the venturis, into the clean air plenum. The clean air can be exhausted outside or recirculated depending on application.

The automatic cleaning system operates as follows :

For each row of cartridges there is a diaphragm valve connected to an air tank. The diaphragm valve is opened in sequence by a solenoid valve and electronic control board.

Short pulses of compressed air are injected through calibrated orifices in the blow tubes and into the venturies. The small primary flow of air through the venturies generates a much larger secondary flow of clean air from the plenum. The combined air flow creates a downward moving pressure wave, that breaks the accumulated dust cake on the cartridges.

The electronic controller allows only one row of cartridges to be cleaned at any given moment, thus ensuring the collector can operate continuously.

Advantages

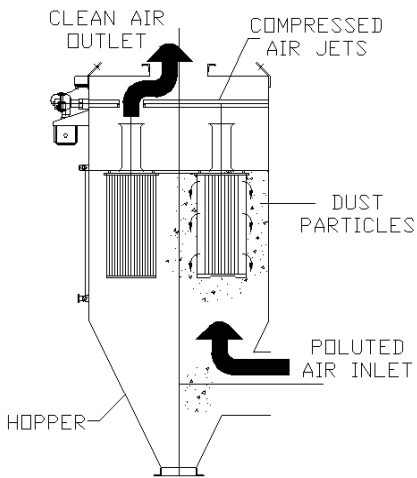
The cartridge dust collector features the following advantages :

Fast, simple and safe cartridge replacement :

- The entire replacement of a set of cartridges is done from outside the dust collector and requires no tools. This way the worker is not exposed to the dust.
 - The cartridge is provided with a rectangular adapter that simplifies the manipulation of the cartridge, and eliminates installation errors.

Economical :

- The selection of a cartridge dust collector is a very economical choice because it requires minimum maintenance. The maintenance is limited to an annual replacement of cartridges (depending the application), providing long term profitability.
- Thanks to the high efficiency of the filtering media, it is possible to filter a larger air volume with a smaller filtering surface. This allows us to manufacture smaller collectors.
- The dust collector operates with low pressure drops, between 1" and 3" of H₂O. These values can be maintained by periodic cleaning that is controlled by a standard adjustable timer.





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