

Besides filter efficiency, the best way to keep your Dust Collector operating at peak performance and lowest cost is to control the airflow.

Airflow is the life blood of a Dust Collector. It is the medium by which contaminant-laden air is delivered to the filters, be they cartridges or bags, for cleaning. Provide too much airflow and the filters become clogged very quickly; too little airflow and you get ineffective cleaning.

The moral of the story?...The best filters in the world won't do anything if the flow of air to them is not controlled.



Dust Collector airflow is created by a Blower, which typically is driven by an AC Motor. The Motor controls the Blower rotational speed, which in turn creates the airflow. Ideally, the airflow should be proportional to the level of contaminants in the air, as opposed to just providing a fixed airflow independent of the level of contamination.

A **Variable Frequency Drive (VFD)** control system, when added to a Dust Collector, will vary the frequency of the incoming electrical power, and hence the speed of the Motor/Blower, to match the load on the system.

What does this mean for you?

- First and foremost, you will ALWAYS have the correct airflow, and hence, will be operating at optimum performance
- Energy costs will be reduced
 - Typically, VFDs pay for themselves in less than 2 years
- Less wear and tear on your equipment



Let us show you the advantages for your system.



Dawson-Macdonald Co., Inc.

845 Woburn Street – Wilmington, MA 01887
Tel: (800) 556-4456 (toll free) / Fax: (978) 657-8740
E-mail: info@dawson-macdonald.com
Website: www.dawson-macdonald.com