



Donaldson®
Filtration Solutions



TD Range High Efficiency Dust Collectors



Tough Dusts Demand a Tough Collector

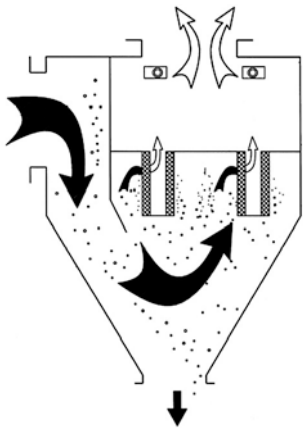
Dust Collectors for Abrasive Dusts

▶ The Donaldson TD cartridge dust collectors combine high efficiency dust collection with integrated abrasive dust and spark separation. The result is a collector, which delivers proven and reliable performance in handling aggressive dusts such as glass, sand, cured ceramics, shot blasting and other abrasive dusts.

▶ The TDP and the TDS ranges have a filter area from 42m² to 1008m² capable of handling air volumes up to 60,000m³ per hour.

Principle of Operation

▶ During normal operation dust laden air enters the collector through a circular inlet where abrasive particles and sparks are pre-separated. Air passes through

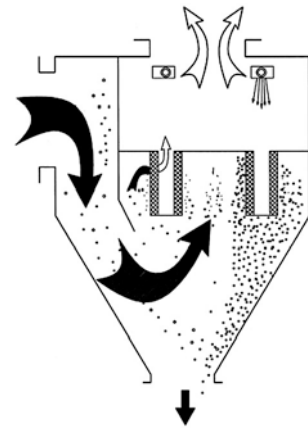


the filter cartridges and dust is collected on the outer surface of the cartridge. Cleaned air flows through the centre of the cartridge into the plenum where it exits through the clean air outlet.



TDP 900

▶ During operation the electronic controller selects and activates reverse jet cleaning by blowing a pulse of compressed air directly into the centre of each cartridge. This removes the collected dust from the cartridge downward into the hopper beneath the collector. Offline cleaning is possible using a Delta P controller.



Applications

Shotblast:

- ▶ Descaling
- ▶ Desanding
- ▶ Shotpeening

Abrasive Dust:

- ▶ Sand
- ▶ Glass
- ▶ Ceramics

Grinding:

- ▶ Hand Grinding
- ▶ Swing Frame Grinding
- ▶ Pedestal Grinding

Designed for Performance and ease of Maintenance

▶ Integrated pre-separator eliminates the need for additional pre-separators and duct work. With the optional top-mounted fan the unit can be optimally positioned to use the minimum floor space.

▶ Pre-wired electronic controller ensures reliable and efficient cleaning. The filter pressure drop can be readily accessed for monitoring of operation. No-tool cartridge change and quick release dust bin makes maintenance quick and easy. Access and maintenance of the cartridges are made from outside of the dust collector.

Ultra-Web® – High Efficiency Cartridge Media

The TD series uses Donaldson's proven cartridge filter media. An exclusive method of bonding a thin layer of ultra fine fibres to a structurally stable conventional filter substrate ensures that fine submicron particles are captured.



Features and Benefits

- ▶ Filtration efficiency of 99.999% at 0.5µm
BIA qualified class C to meet EPA, Ta-Luft, MAK requirements
- ▶ Lower pressure drop
Up to 25% savings in energy consumed
- ▶ Lower cost per m³ per hour
Up to 50% more airflow compared to conventional media
- ▶ Substantial savings in energy costs Filtered air can be recirculated



Options

- ▶ Fan sets
- ▶ Delta P monitor
- ▶ Leg heights
- ▶ Dust discharge systems
- ▶ Open bottom collector with DIN flange
- ▶ Weather-proof installation
- ▶ Acoustic diffuser
- ▶ Platform
- ▶ Ladder
- ▶ Reinforcement & explosion relief
- ▶ Blow off channels
- ▶ Pulse noise attenuation
- ▶ Compressed air oil/water
- ▶ ATEX Compliance



Donaldson. *And everything just got better.*

Total Filtration Management

▶ Donaldson offers a wide variety of solutions to reduce your energy costs, improve your productivity, guarantee production quality and help preserve the environment.

Compressed Air Filtration, Sterile Filtration, Process Filtration, Refrigerant Drying, Adsorption Drying, Condensate Drains, Condensate Purification Systems, Water Chillers, Air / Oil Separation, Dust and Fume Removal, Process Air and Gas Processing, Oil Mist Separation

Total Filtration Service

▶ A comprehensive range of services especially designed to keep your production at peak performance and at the lowest total cost of ownership.

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