

Home > Dust & Fume Extraction Equipment Dry Dust Filters >

Donaldson Torit (DCE) DFT4-112 Dust Extraction Unit



Stock Code: CLE500

Manufacturer: Donaldson Torit (DCE)

Model: DFT4-112

Year of Manufacture: 1994

Serial: 95070058

New or Used: Used (Second Hand)

Approx Duty CFM / M³/Hr : 35,000 // 59,465

Filter Area ft² / m²: 28,450 // 2,643

Other Info: ATEX rated explosion relief panels

Weight: 6,500

Donaldson Torit DFT4-112 Reverse Pulse Jet Extraction System with 75kw Fan - Designed for Outdoor installation This large and high specification installation is a unique opportunity for a high capacity extraction system to be reused as configured.

However this facility can be be for split for reinstallation: 56 cartridge can be configured into multiple 16, 32 & 48 cartridge options.

Additionally full support with moving, handling and transport is available, including reinstallation and configuration.

Includes:

Home > Dust & Fume Extraction Equipment>Dry Dust Filters >

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Fitted hopperDMN Westinghouse Rotary SealCentrifugal fanBrooke Crompton 75kw electric motor driveGalvanised Steel ducting to building and steel work/entablature throughoutRe-inforced welded constructionAtex rated roof mounted explosion relief panels

Description

The Downflo II dust collector is a continuous-duty, modular collector with cartridge-style filters. The downward airflow design delivers high filtration efficiency while using less energy. Continuous-duty means no downtime. The filters are pulse-cleaned in sequence, one set at a time, without turning the unit off.

The modular design allows flexibility in system design and adapts easily to limited space areas. Each standard module is two or three filter rows wide by two, three, or four rows high by two filters deep.

Designed to increase the versatility of the unit, standard options include top or front inlets, filter access covers, Bag Out, cold climate kits, steep-slope ledge-free hoppers, trough hoppers, and stationary service platforms.

Purpose and Intended Use

Downflo II collectors are widely used on nuisance dust where the load to the collector is less than two grains per cubic foot.

Some typical applications include:

- Abrasive blasting
- Grinding
- Mixing
- Blending
- Processing
- Pan coating
- Powder paint applications
- Sand handling
- Welding
- Machining

For all ambient, extremely fine, and non-fibrous dust, use Ultra Web ® filter cartridges which offer high efficiency and performance on fine particulate.

For fibrous dust, use a cartridge with an open-pleat design, such as Fibra-Web

Operations involving high temperature and high humidity may require special attention. Temperature, moisture content, and chemistry issues may require custom collector design. Appropriate cartridge options are available from Donaldson Torit.

Operation

Home > Dust & Fume Extraction Equipment>Dry Dust Filters >

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During normal operation, dust-laden air enters the unit through the dirty-air inlet. Airflow is directed downward through the collector and heavier particulate falls directly into the hopper. The cartridges remove fine particulate and clean filtered air passes through the cartridges to the clean-air plenum and discharges through the clean-air outlet.

Filter cleaning is completed using pulse-jet technology. A solenoid and diaphragm valve aligned to each row of filters provides the pulse cleaning.

The cleaning sequence starts at the top filter row and continues down through each row. Remove, inspect, or change the cartridges from outside the unit by removing the filter access cover and sliding the filters out.

Features

Filter elements - No. of filter elements 112 (factory installed)
Operating temperature Max : + 65° C /Min : - 10° C
Max. operating pressure (1) ± 5 kPa (500 mm WG)
Full automatic cleaning mechanism electronic adjustable time control

Optional extras included with this unit

Fan set
Execution for outdoor installation
Connecting duct between clean air plenum and fan set
Full range of filter elements
Transition pieces for inlet and outlet
Fan starter/power box
Service platform with galvanized gratings, handrail and ladder

View Donaldson Torit (DCE) DFT4-112 Dust Extraction Unit on our web site at
<https://www.rileysurfaceworld.co.uk/machines/30795.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.