



---

**Downflo<sup>®</sup>+**

*The complete solution  
to dust and fume  
collection*

---

*Donaldson Dust Collection Group*

# The Torit DCE Downflo<sup>®</sup>+



The Torit DCE Downflo<sup>+</sup> dust and fume collector offers high efficiency and increased airflow, together with easy installation and maintenance in an integrated, compact unit.

Its advanced modular design allows for a low-cost unit, virtually off-the-shelf, offering a range of filtration areas from 94.4m<sup>2</sup> to 377.6m<sup>2</sup>, and handling applications from 1,700m<sup>3</sup>/h to 21,000m<sup>3</sup>/h.

## Downflo<sup>+</sup> typical applications

- Metalworking
- Welding & cutting fumes
- Thermal spraying
- Chemical & pharmaceutical
- Bulk handling

# Features and benefits

## Increased airflow

A 12% increase in filtration area reduces cost with a more compact unit.

## Easy installation

Installation of the Downflo<sup>+</sup> is quick and easy. The unit will even go into a corner, meaning greater flexibility for installation with less floor space.



The integrated design with built in:

- Fan
- Silencer
- Damper valve
- Pre-wired controls

...means lower set-up and start-up costs.

## Quieter operation

The built-in fan and cleaning mechanism reduces operating noise level to 75 dB(A) and lower.

## Easy, safe operation

At Torit DCE, we design our own control boards to give reliability and easy to read operating information. The rugged, yet clean-looking control board, which has no external wiring, gives full diagnostics and a feedback warning light for safer operation.

## Potential cost savings

High efficiency filtration allows air re-circulation for reduced plant heating costs.

Low fan power requirement due to low pressure drop (typically 50 daPa) resulting in reduced energy costs.

## Easy access and maintenance

Hinged doors give easier, quicker access to both dirty and clean air compartments. This allows safe filter cartridge change and provides direct access to the cleaning mechanism.

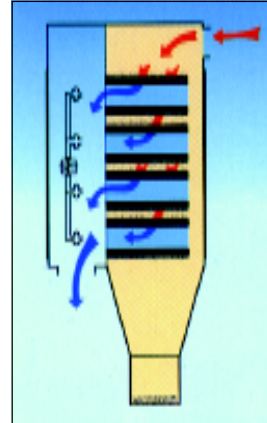
The dust bin, mounted on castors, with plastic disposable bags and access from any side of the hopper, means faster, easier, safer and cleaner dust disposal.

## Flexibility

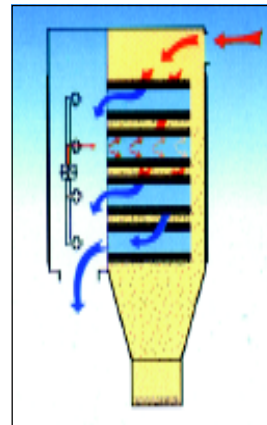
Numerous choice of filter cartridges, pre-separators and customised selection of options available.

## Downflo+ simple and effective in operation

During normal operation, dirty air enters the Downflo+ dust collector through the top inlet and passes through filter cartridges. Dust is collected on the outside surface of the cartridges and clean air flows through the centre of the cartridges into the clean air plenum, where it exits through the clean air outlet.



During filter cartridge purge, the control timer automatically selects the cartridge to be cleaned and activates a solenoid valve which opens a diaphragm valve. High pressure pulses of air are directed into the centre of the selected cartridges. The dust is swept downwards into the hopper by the prevailing air flow and by gravity.



The Downflo design, pioneered by Torit DCE over 20 years ago, offers highly efficient dust collection even with ultra fine and light particles like fumes, which is not possible with traditional upflow dust collectors.

## Downflo+ customised selection

The Downflo+ dust collection system provides a wide range of dust collectors within a modular design, allowing selection of:

Hopper types	Numerous sizes of fan sets	Full range of pre-separators for sparks and abrasive dusts
Leg heights		
Platforms	Many different inlet and adaptation pieces	Design to cope with dust explosion risk
Dust disposal systems	Reinforced version	

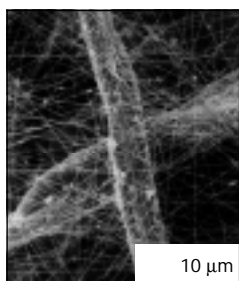
APPLICATION TYPE	FILTER CARTRIDGES	FILTRATION EFFICIENCY
Standard application	Blue Ultra-Web®	99.999% for 0.5µm particles
Risk of sparks	Blue Ultra-Web® flame retardant	99.999% for 0.5µm particles
Fire and dust explosion risk	Blue Ultra-Web® flame retardant antistatic	99.999% for 0.5µm particles
Temperatures from 65° up to 135°C	Thermo-Tek™	99.99% for 1µm particles
Mix of fibrous and submicron particles	Fibra-Web®	99.999% for 1µm particles
Moist, hygroscopic and agglomerative particles	Torit-Text™, Torit-Text™ antistatic	99.999% for 0.5µm particles
Stainless steel, corrosion resistant media, washable media, etc. are available for special applications		

*At Torit DCE we design, develop and manufacture our own filter media, for our vast range of dust, mist and fume collection equipment. Using our own filtration technology we can ensure reliability, high performance and complete solutions.*

**Ultra-Web®, the most advanced filtration technology for nearly two decades.**

Ultra-Web provides higher filtration efficiency because of its fine layer of web-like fibres that trap submicron-

sized dust particles on the surface, allowing it to rapidly build into a dust cake.



Its special surface layer allows for more thorough pulse cleaning, lower pressure drop and longer filter life because it prevents the dust from becoming embedded in the substrate media.



This exclusive Torit DCE technology has been applied to both Ultra-Web and Fibra-Web cartridges.



# Company Profile

*Torit DCE is world-renowned for the quality of its products and application expertise. It also offers the widest choice of dust, fume and oil mist control products, solutions and services available. These are supported worldwide with a dedicated network of wholly owned distributors and authorised agents.*

With 80 years' experience, Torit DCE provides the strength to deliver proven solutions to numerous environmental control problems.

Torit DCE designs, manufactures and installs a complete range of collection equipment. These products use a wide variety of media including: cartridge technology, spun-bonded polyester modules, fabric bags and rigid sintered elements. Torit DCE also designs and installs complete systems based on its leading range of products.

## After Market Service

Torit DCE products are supported by a fully inclusive after sales and technical support service package covering:

*Technical support group*

*Complete turnkey installations*

*Installation*

*Commissioning*

*COSHH testing & inspection scheme*

*Service and maintenance scheme*

*Spare parts*

## Whether your problem's...

Dust...



Fume...

or Oil Mist...



**Torit DCE is the answer**



Donaldson Dust Collection Group

<http://www.toritdce.com>

- (UK) **Torit DCE**, Humberstone Lane, Thurmaston, Leicester LE4 8HP, England  
Tel +44 (0)116 269 6161 Fax +44 (0)116 269 3028 Email: [toritdce.uk@mail.donaldson.com](mailto:toritdce.uk@mail.donaldson.com)
- (IRL) **Torit DCE**, Unit 9, Southern Cross Business Park, Bray, Co. Wicklow, Ireland.  
Tel +353 (0)1 286 8145 Fax +353 (0)1 286 8732 Email: [toritdce.uk@mail.donaldson.com](mailto:toritdce.uk@mail.donaldson.com)
- (B) **European Head Office**  
**Torit DCE**, Interleuvenlaan, B-3001 Leuven (Heverlee), Belgium.  
Tel +32 (0)16 383 970 Fax +32 (0)16 383 938 Email: [toritdce.be@mail.donaldson.com](mailto:toritdce.be@mail.donaldson.com)

