



Downflo® Oval 1 Dust Collector Specifications

| MODEL | HEIGHT (MM) | WIDTH (MM) | DEPTH (MM) | ULTRA-WEB® FILTER CARTRIDGE MEDIA AREA | FIBRE-WEB® FILTER CARTRIDGE MEDIA AREA | NUMBER OF CARTRIDGES |
|-----------|-------------|------------|------------|--|--|----------------------|
| DFO 2-8 | 3310 | 1138 | 2099 | 141 m² | 66 m² | 8 |
| DFO 2-12 | 3310 | 1635 | 2099 | 211 m² | 99 m² | 12 |
| DFO 2-16 | 3310 | 2146 | 2099 | 282 m² | 132 m² | 16 |
| DFO 3-12 | 3783 | 1138 | 2099 | 211 m² | 99 m² | 12 |
| DFO 3-18 | 3783 | 1635 | 2099 | 317 m² | 149 m² | 18 |
| DFO 3-24 | 3783 | 2146 | 2099 | 423 m² | 199 m² | 24 |
| DFO 3-36 | 3783 | 3140 | 2099 | 635 m² | 298 m² | 36 |
| DFO 3-48 | 3783 | 4148 | 2099 | 847 m² | 397 m² | 48 |
| DFO 4-16 | 4256 | 1138 | 2099 | 282 m² | 132 m² | 16 |
| DFO 4-24 | 4256 | 1635 | 2099 | 423 m² | 199 m² | 24 |
| DFO 4-32 | 4256 | 2146 | 2099 | 564 m² | 265 m² | 32 |
| DFO 4-40 | 4256 | 2643 | 2099 | 706 m² | 331 m² | 40 |
| DFO 4-48 | 4256 | 3140 | 2099 | 847 m² | 397 m² | 48 |
| DFO 4-56 | 4256 | 3651 | 2099 | 988 m² | 463 m² | 56 |
| DFO 4-64 | 4256 | 4148 | 2099 | 1129 m² | 529 m² | 64 |
| DFO 4-72 | 4256 | 4645 | 2099 | 1270 m² | 596 m² | 72 |
| DFO 4-80 | 4256 | 5196 | 2099 | 1412 m² | 662 m² | 80 |
| DFO 4-88 | 4256 | 5653 | 2099 | 1553 m² | 728 m² | 88 |
| DFO 4-96 | 4256 | 6150 | 2099 | 1694 m² | 794 m² | 96 |
| DFO 4-104 | 4256 | 6661 | 2099 | 1835 m² | 860 m² | 104 |
| DFO 4-112 | 4256 | 7158 | 2099 | 1976 m² | 926 m² | 112 |
| DFO 4-120 | 4256 | 7655 | 2099 | 2118 m² | 993 m² | 120 |
| DFO 4-128 | 4256 | 8166 | 2099 | 2259 m² | 1059 m² | 128 |

Standard Features

- Oval 1 Cartridges
- Expansion Panels
- Quick Release Access Cover Clamp
- Improved Cleaning Efficiency
- IPC Controller
- Horizontal Clean Air Plenum
- Multiple Inlet & Outlet Connections

Options and Accessories

- Ultra-Web® Media
- Ultra-Web® Flame Retardant Media
- Fibre-Web® Media
- IPC ΔP Controller
- Weatherproofing for External Installations
- Static Earthing
- Variable Hopper Clearance and Support Height
- Range of Dust Disposal Systems
- Sprinkler Pack
- Vibrator Pack
- Explosion Protection
- Inlet-Outlet Adaptors
- Abrasion Resistant Inlet
- Pressure Regulator
- Bin Balance Connection Pack

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.



Downflo® Oval 1

* 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
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Torit DCE reserve the right to alter design without notice. Freedom from patent restrictions must not be assumed.

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Increased efficiency



Improved airflow path



Torit DCE is the innovation leader in dust and fume control systems. With over 80 year's experience, we understand dust, fume and oil mist problems better than anyone, and more importantly we understand how these problems are best dealt with. Torit DCE engineers systems to the highest possible standards to protect people, machinery and the environment.

With ever increasing demands being placed upon production efficiency, reduced downtime and minimal maintenance, manufacturing industries require dust collectors that not only deliver exacting standards of filtration efficiency but also demonstrate a longevity of service to match demanding production schedules.

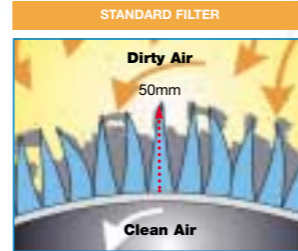
In order to meet these new challenges our design engineers have developed the next generation in dust control technology: the **Downflo[®] Oval 1**. The **Downflo[®] Oval 1** is a revolution in dust control. It combines the high quality engineering associated with Torit DCE and some unique features which increase efficiency whilst reducing maintenance frequency.



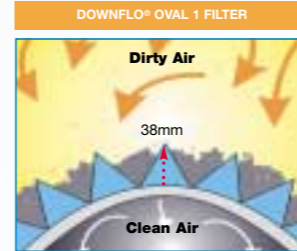
Downflo[®] Oval 1

It will change the way you think about dust control equipment

A re-designed cabinet, unique filter cartridges and optimised cleaning system allow the **Downflo[®] Oval 1** to handle in excess of 10% more airflow whilst actually reducing internal case velocities and prolonging media life. Maintenance is also easier with new quick-release access cover handles.



Shown: Standard filter media with 50mm pleats



Shown: Oval 1 filter media with 38mm pleats

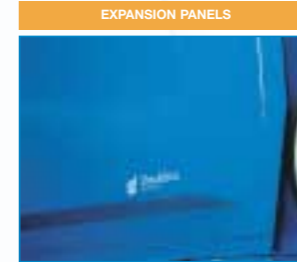
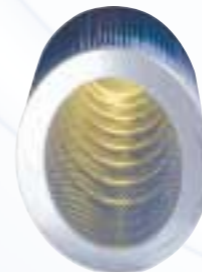
The design of the **Downflo[®] Oval 1** filter cartridge is new and improved. Like its name suggests the construction is Oval and the elliptical shape of the **Downflo[®] Oval 1** filter cartridges enables the pleats of the filter media to be shorter and of a more open nature. Traditionally circular cartridges with a 50mm pleat depth are more prone to the pleat walls bending resulting in the pleat tips touching and trapping dust, preventing its expulsion. This gives rise to poor cleaning efficiency and reduced media life. With the **Downflo[®] Oval 1** the pleat depth is reduced to 38mm providing a stronger more uniform stiffness and improving cleaning efficiencies whilst increasing media life.

The filter cleaning system has also been enhanced utilising newer high specification valves delivering increased peak pressures throughout the cleaning cycle. As a result, cleaning efficiencies have been increased by almost 30%.

The new pleat design and shape, enhanced cleaning system and Ultra-Web[®] media make an exciting combination. Ultra-Web[®] media features a layer of Eon[™] fine fibres that capture even sub-micron particulate at the media's surface. This aids the formation of an even dust cake that can be easily pulsed off, making the cleaning effectiveness of the **Downflo[®] Oval 1** collector truly exceptional.

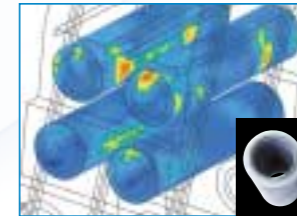


Downflo[®] Oval 1 Cartridges



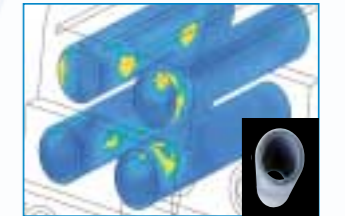
The removal of internal stiffeners and addition of expansion panels have improved the **Downflo[®] Oval 1**'s casing. The cross-sectional area has, therefore, been increased without comprising structural integrity. Inside the casing the Oval cartridges provide more space between filters adding to a reduction in case velocities thus reducing abrasion. All these attributes add up to a significant improvement in filter media life, reduced operating costs and in many cases a smaller footprint which maximises costly factory floor space.

STANDARD COLLECTOR: 12 400 m³/hr



Shown: Fluid flow modelling software showing velocity contours of 16 cartridge collectors

DOWNFLO[®] OVAL 1 COLLECTOR: 15 500 m³/hr



The red colour in these Fluent[™] velocity contour diagrams shows areas of high velocity. Even with a significant increase in airflow through the same casing the **Downflo[®] Oval 1** collector demonstrates significantly fewer 'hot spots' and subsequently a lower potential for media abrasion which is the most common cause of premature media failure.

*Fluent is a trademark of Fluent Inc.

Maintenance is quick, simple and secure with the Downflo[®] Oval 1

Cartridges are light and easy to remove with quick release handles fitted to cartridge covers. Complicated, time consuming filter changes are a thing of the past.

