

Donaldson[®]
Torit[®]

**DOWNFLO[®] II
DUST COLLECTORS**



ULTRA-WEB[®]
High Efficiency **Nanofiber Filters** Built to Last

ENGINEERED FOR RELIABLE PERFORMANCE

The long-standing, most influential cartridge collector in industrial air filtration history, the Donaldson® Torit® Downflo® II (DFT), delivers optimum performance and is one of the best values available in today's marketplace. A leader in the industry for over 20 years with thousands of successful installations in place, DFT dust collectors ensure steadfast, trouble-free operation.

The DFT advantages can be found in the collector's patented design and components. Now featuring a ledgeless design in combination with proprietary Ultra-Web® filter media and patented cleaning technology, the DFT continues its strong performance in traditional applications such as metalworking. It also generates interest and respect in process applications where ledgeless construction is often a requirement. Providing higher efficiency and smaller footprints than any baghouse collector or even other cartridge collectors, DFT adds up to long-term savings and improved performance in many applications.



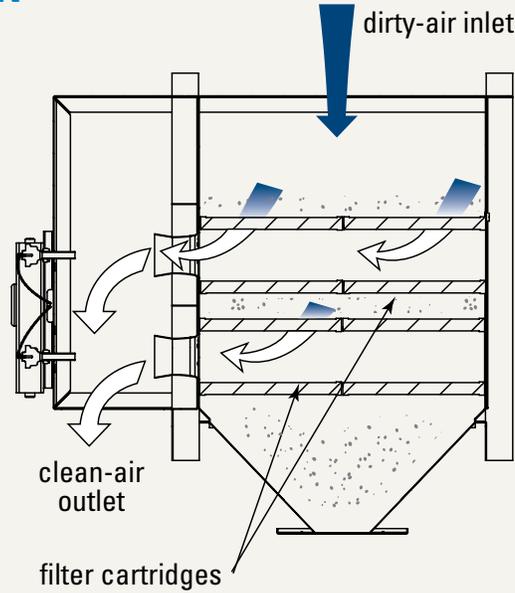
DFT offers:

- **LEDGELESS CONSTRUCTION**
Eliminates dust build-up and accommodates wash down environments.
- **COMPACT DESIGN**
Minimizes floor space.
- **POWERFUL PERFORMANCE**
Patented ExtraLife™ Filter Cleaning System provides 30% more cleaning energy.
- **COST SAVINGS**
Fewer filter changeouts, reduced filter disposal costs, less energy usage.
- **RELIABILITY**
Exceptional results for over 20 years and counting.
- **EASY SYSTEM SET UP**
- **EASY MAINTENANCE**
- **10-YEAR WARRANTY**

A **LEADER**
IN THE INDUSTRY
FOR OVER **20** YEARS

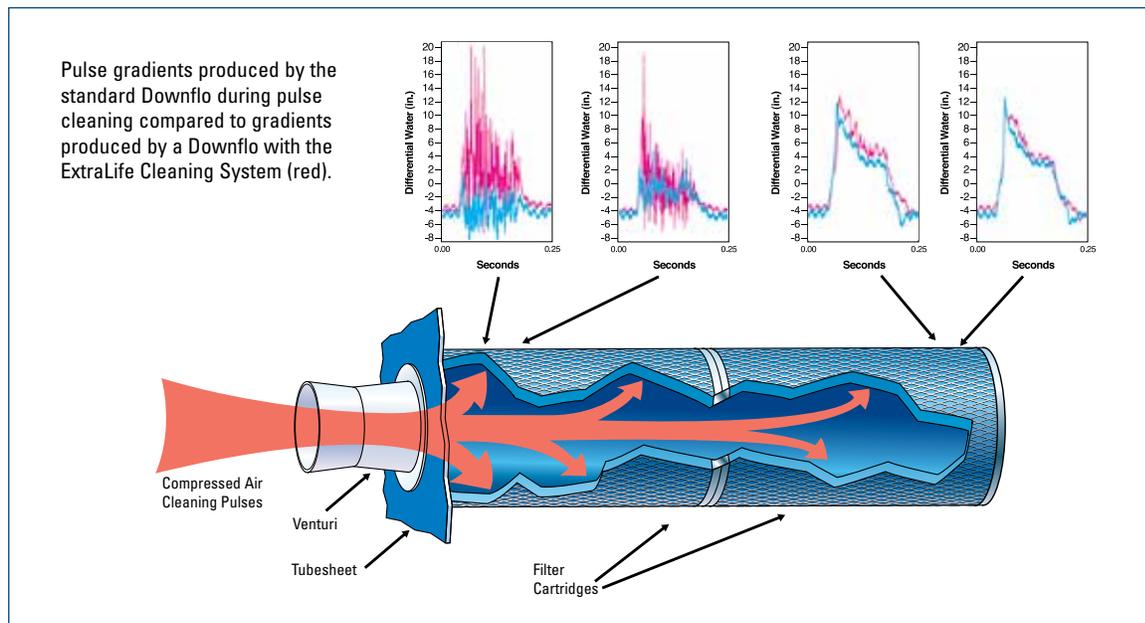
SIZES & OPERATIONS

NORMAL OPERATION



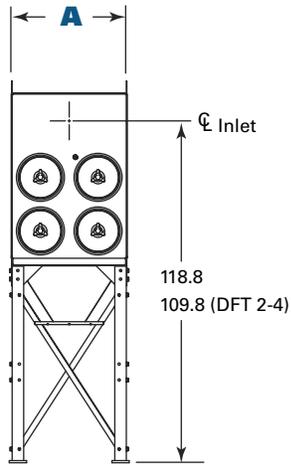
PULSE CLEANING TECHNOLOGY

ExtraLife Filter Cleaning System uses proprietary, computer-modeled pulse cleaning technology to easily “pulse off” dust from the surface of the filter, improving filtration efficiency and prolonging filter life. The red lines in the illustration show the increased pressure at the front of the Downflo filter generated by the ExtraLife system. The blue line shows the pulse signature of a standard cartridge collector.

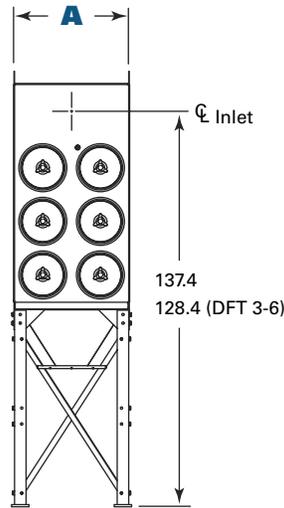


DOWNFLO PULSE PRESSURE GRADIENTS

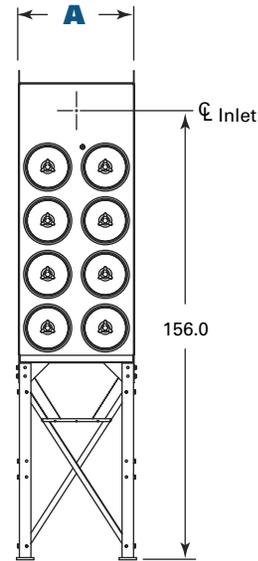
DIMENSIONS & SPECIFICATIONS



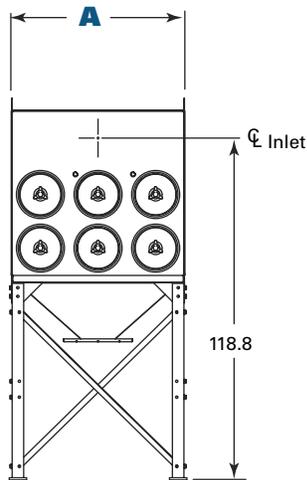
Front View
DFT 2-Models



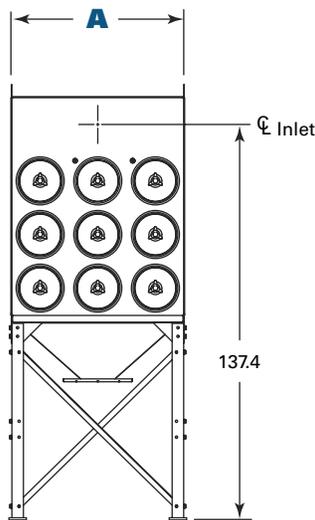
Front View
DFT 3-Models



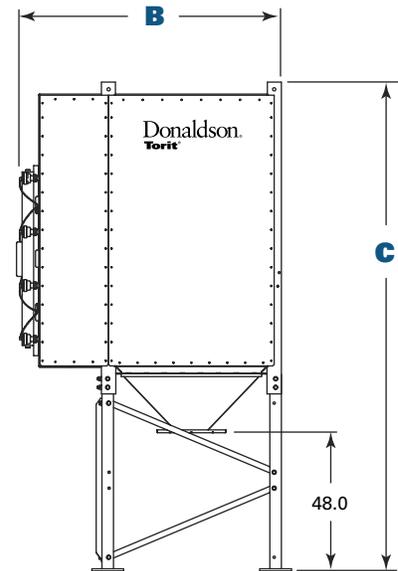
Front View
DFT 4-Models



Front View
DFT 2-12
(3-Wide Models)



Front View
DFT 3-18
(3-Wide Models)



Left Side View
All Models

DFT STANDARD OPERATING CONDITIONS

Seismic Rating (zone)	4	Compressed Air Required (psig)	90-100
Wind Load Rating (mph)	100	Valves and Controls	50/60 KHz
Housing Rating ("wg)	+15 / -20		

DIMENSIONS & SPECIFICATIONS

DFT Model*	Nominal Airflow Range** (cfm)	No. of Filters	Ultra-Web Filter Area (ft ²)	No. of Valves	Approx. Shipping Weight (lbs)***	Dimensions (inches)		
						A	B	C
2-4	500-3,150	4	760	4	1,700	40.0	67.8	117.3
2-8	1,020-6,300	8	1,520	4	1,700	40.0	94.5	132.7
2-12	1,525-9,450	12	2,280	6	2,400	60.0	94.5	132.7
2-16	2,030-12,600	16	3,040	8	3,300	80.0	94.5	132.7
2-24	3,050-18,900	24	4,560	12	4,600	120.0	94.5	132.7
2-36	4,570-28,350	36	6,840	18	7,000	180.0	94.5	132.7
3-6	760-4,720	6	1,140	6	1,700	40.0	64.5	136.0
3-12	1,525-9,450	12	2,280	6	2,100	40.0	94.5	151.3
3-18	2,285-14,175	18	3,420	9	2,900	60.0	94.5	151.3
3-24	3,050-18,900	24	4,560	12	4,200	80.0	94.5	151.3
3-36	4,570-28,350	36	6,840	18	6,100	120.0	94.5	151.3
3-48	6,100-37,800	48	9,120	24	8,000	160.0	94.5	151.3
3-54	6,850-42,520	54	10,260	27	8,500	180.0	94.5	151.3
3-60	7,620-47,240	60	11,400	30	10,100	200.0	94.5	151.3
3-72	9,140-56,700	72	13,680	36	12,000	240.0	94.5	151.3
4-16	2,030-12,600	16	3,040	8	2,500	40.0	94.5	169.9
4-32	4,060-25,200	32	6,080	16	4,600	80.0	94.5	169.9
4-48	6,100-37,800	48	9,120	24	6,500	120.0	94.5	169.9
4-64	8,130-50,390	64	12,160	32	8,500	160.0	94.5	169.9
4-80	10,160-62,990	80	15,200	40	10,300	200.0	94.5	169.9
4-96	12,190-75,590	96	18,240	48	12,100	240.0	94.5	169.9
4-112	14,220-88,190	112	21,280	56	14,500	280.0	94.5	169.9
4-128	16,260-100,790	128	24,320	64	16,000	320.0	94.5	169.9

* The first number indicates number of filter rows, and the second number indicates number of cartridges.

** Based on clean filters.

*** Without accessories or optional equipment.

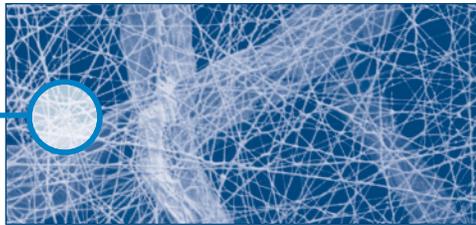
CARTRIDGE FILTER TECHNOLOGY

ULTRA-WEB® NANOFIBER FILTER MEDIA

Donaldson leverages almost 100 years of air filtration experience in the development of filtration media, providing tremendous value to our customers. Ultra-Web® media incorporates a durable layer of premium nanofiber designed to intercept the smallest dust particles at the surface of the media.

Independent laboratory testing determined that Ultra-Web media has a Minimum Efficiency Reporting Value (MERV) of 13 based on the ASHRAE 52.2-1999 test standard. Ultra-Web media rated MERV 13 is the most optimized, balanced and cost effective media in the market place, providing higher efficiency without compromising pressure drop and filter life. For more information on Ultra-Web and MERV ratings, please visit www.ultrawebisalwaysbetter.com.

600x
10 micron

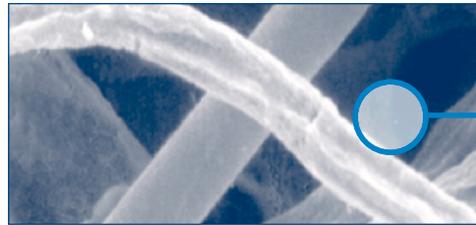


Nanofiber Media

Nanofiber surface loading technology is available in all Ultra-Web and Fibra-Web filter cartridges.

600x

10 micron

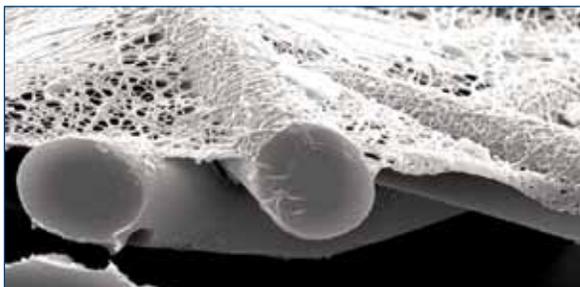


Commodity Filter Media

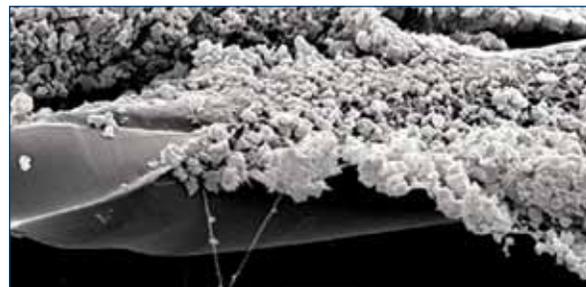
Conventional media has spaces of up to 60 µm between fibers, allowing dust to become deeply embedded.

SYSTEM ENERGY EFFICIENCY, SAVINGS, AND NOISE CONTROL

Surface loading is a key characteristic of Donaldson's Ultra-Web media. This surface loading capability improves the effectiveness of pulse cleaning which minimizes system pressure differential, thereby conserving compressed air usage and brake horsepower requirements of the system fan.



Clean Ultra-Web Filter



**Surface-Loaded Ultra-Web Filter
(substrate still clean)**

Ultra-Web nanofiber media is loaded with ISO fine dust. Dust particles collect on the surface of the media and clean off easily while the substrate stays clean. A depth-loading filter would allow dust particles to penetrate deeply into the substrate where they build up and choke off the airflow.

DFT CARTRIDGE FILTERS

DFT dust collectors' patented downward airflow design delivers highest filtration performance while using less energy. The DFT collector, its patented ExtraLife Filter Cleaning System, and Donaldson Torit's filter cartridges together are an unbeatable system. Choose from our superior line of filters to complete the most powerful dust collection solution available.

STANDARD FEATURES & AVAILABLE OPTIONS

Collector Design	Std	Opt
Mild Steel Construction	X	
ExtraLife™ Filter Cleaning System	X	
Inlets	X	
Ledge-Free Hopper	X	
Sprinkler Taps	X	
Stainless Steel Construction		X
High Temperature Construction		X
Direct Drive Fans		X
Chamber and Exhaust Silencers		X
Abrasion Resistant (AR) Inlet		X
Air Management Modules		X
Extended Dirty Air Plenum		X
Steep-Sided Hopper		X
2-Mod Hopper		X
Explosion Relief Vents		X
Sprinkler Heads		X
Service Platform (OSHA compliant)		X
Damper Pack		X
Drum Sentry™ Drum-Full Indicator		X
Lined Clean Air Plenum		X
Bag-Out Kit (Filter & Discharge)		X
Bag-In/Bag-Out Kit (Filter & Discharge)		X
Cartridge Filters		
Ultra-Web® (MERV* 13)	X	
Ultra-Tek® (MERV 12)		X
Thermo-Tek® (MERV 12)		
Fibra-Web® (MERV 14)		
Ultra-Web SB (MERV 15)		
Torit-Tex™ (MERV 16)		
HEPA/ASHRAE Afterfilters		X

Paint System	Std	Opt
Prime Coated Interior	X	
Acrylic urethane finish over alkyd enamel primer. Paint system passes a 350-hr. salt spray test.	X	
Custom Color		X
Hostile Environment Coating		X
Epoxy Coating		X
Hopper Discharge		
Drum Cover and Hose		X
Slide Gates		X
Rotary Valves and Transitions		X
Screw Conveyors		X
Electrical Controls, Gauges & Enclosures		
Solid State Timer in NEMA 4 Enclosure	X	
Magnehelic®** Gauge	X	
Delta P Control, Delta P Plus Control		X
Custom Panels		X
Photohelic®** Gauge Standard & Weatherproof		X
Basic Cold Climate Kit		X
Heavy-Duty Cold Climate Kit		X
Solenoid Enclosure (NEMA 7 & 9)		X
Warranty		
10-Year Warranty	X	

* The Minimum Efficiency Reporting Value (MERV) of this filter cartridge has been determined through independent laboratory testing using ASHRAE 52.2 (1999) test standards. The MERV rating was determined at a face velocity of 118 feet per minute and loading up to four inches water gauge. Actual efficiency of any filter cartridge will vary according to the specific application parameters. Dust concentration, airflow, particle characteristics, and pulse cleaning methods all affect filtration efficiency.

** Magnehelic and Photohelic are registered trademarks of Dwyer Instruments, Inc.

Information contained in this document is subject to change without notice.



Facilities in 37 countries

- 40 manufacturing plants and 14 distribution centers
- Sales offices worldwide

LEADING TECHNOLOGY



- Over 1,000 engineers and scientists worldwide
- Over 1,500 issued, active and pending patents
- Broad range of innovative collectors and filters
- 100s of filter media formulations

EXPERIENCE & SERVICE



- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours
- 1,000,000+ dust, fume, and mist collectors installed



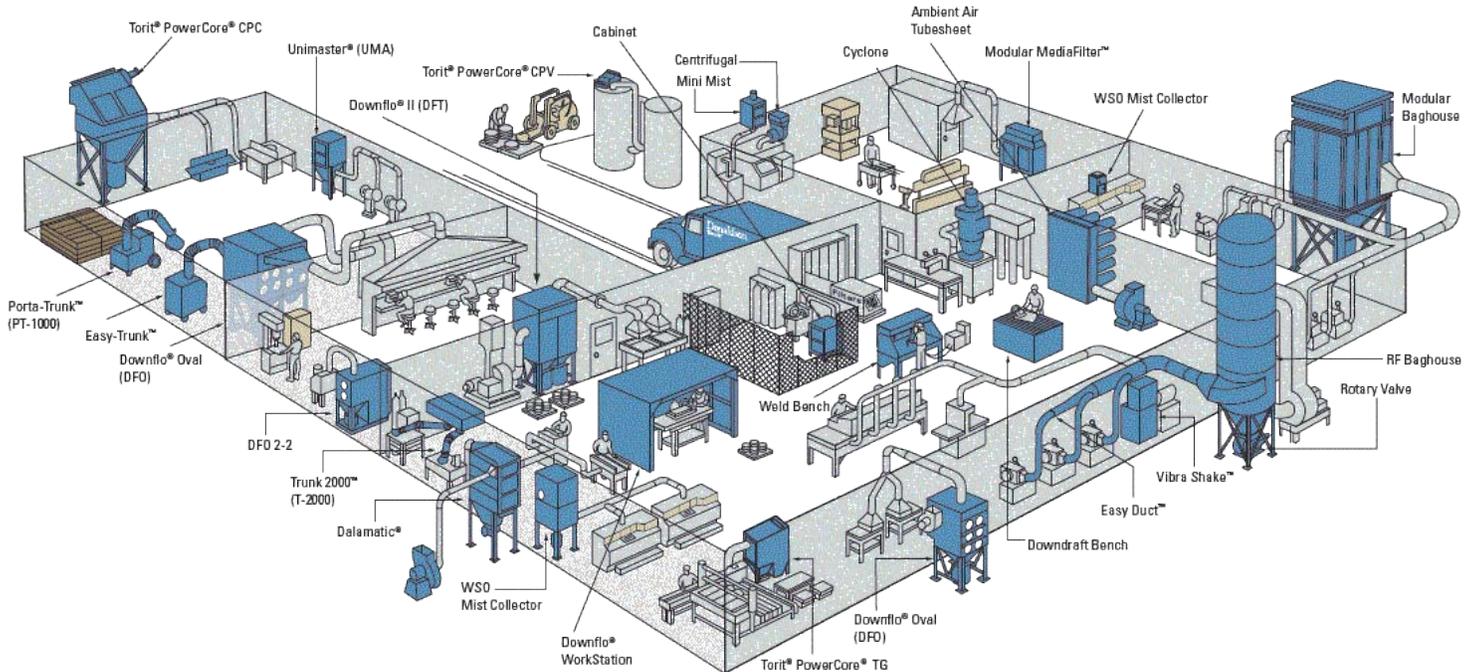
ISO 9001:2000
FM 61768



PROCESS ENVIRONMENTS

Air Filtration Systems for Industry

Dust Collection • Fume Extraction • Mist Control • General Ventilation
System Design • Ductwork • Sheet Metal Fabrication
Turn-Key Installations • Replacement Parts & Filters • Maintenance Contracts



Donaldson
Torit®

Industrial
Air Technology Corp.

HOUSTON • AUSTIN

CORPORATE OFFICE
406 Newport Blvd. League City, TX

Phone: (281) 316-2500 Toll Free: (800) 495-2249 Fax: (281) 526-2501

Website: www.processenvironments.com Email: peimail@processenvironments.com