

Downflo® II Dust Collectors



Downflo® II

Engineered for Reliable Performance

The longstanding, 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 20 years with thousands of successful installations in place, the DFT family of reliable performers ensures steadfast, trouble-free operation.

The DFT advantage can be found in the collector's patented design and components. Now featuring a ledgeless design in combination with proprietary UltraWeb® filter media and patented cleaning technology, the DFT continues its strong performance in traditional applications such as metalworking and generates new 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 most applications.

A Leader in the Industry
for **20** Years

DFT Offers:

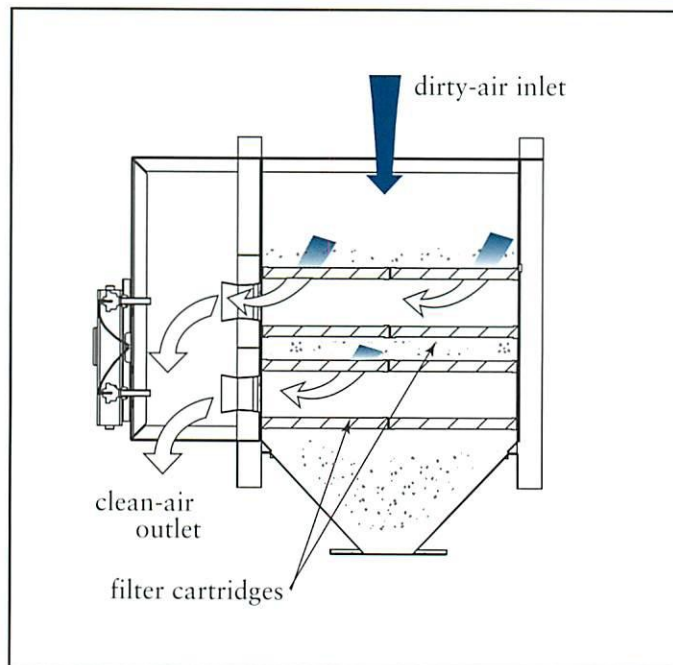
- **Ledgeless construction** Accommodates wash-down requirements.
- **Compact design** Minimizes floor space.
- **Powerful performance** Patented ExtraLife™ Filter Cleaning System provides 30% more cleaning energy.
- **Cost savings** Fewer filter changeouts and reduced filter disposal costs.
- **Reliability** Exceptional results for over 20 years and counting.
- **Easy system set up**
- **Easy maintenance**
- **10-year warranty**



DFT 3-6

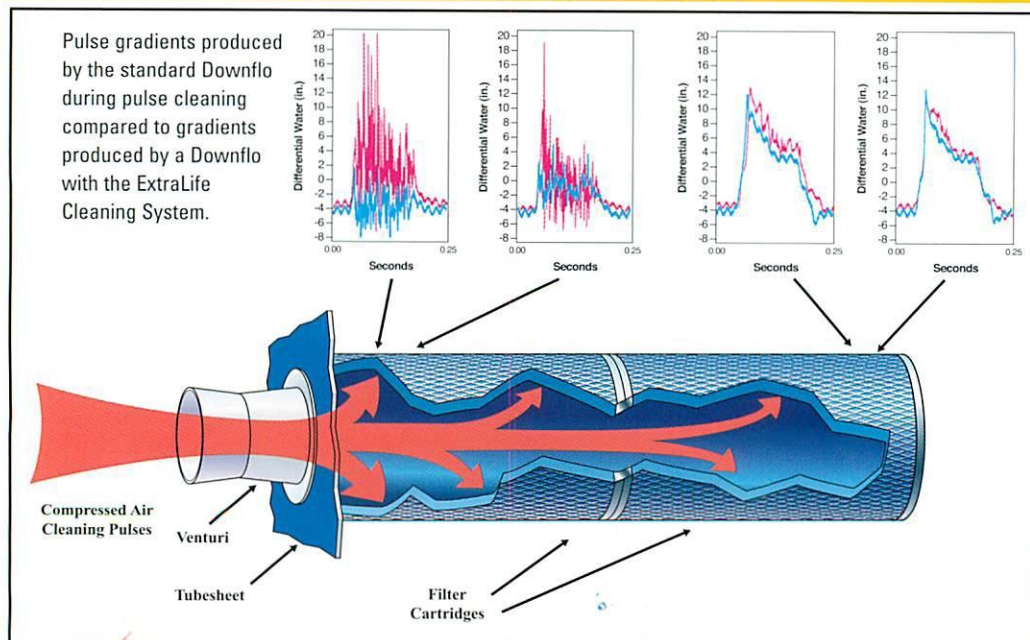
Sizes & Operations

Normal Operation



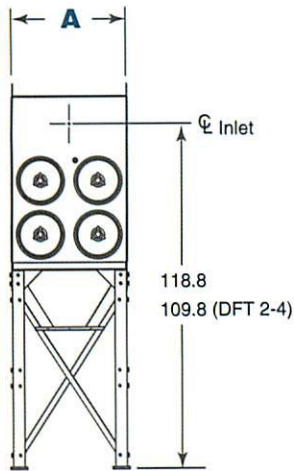
Pulse Cleaning Technology ExtraLife Filter Cleaning System uses proprietary, computer-modeled pulse cleaning technology to easily “pulse off” dust from the surface of the filter, improving filtration efficiency and prolonging filter life. The red lines in the illustration show the increased pressure 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

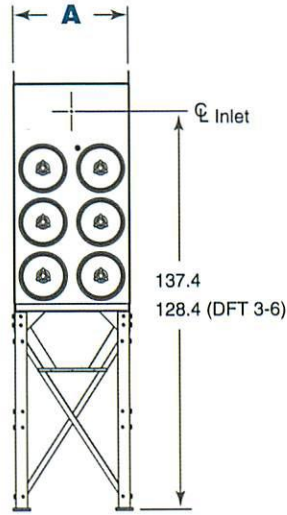


Downflo® II

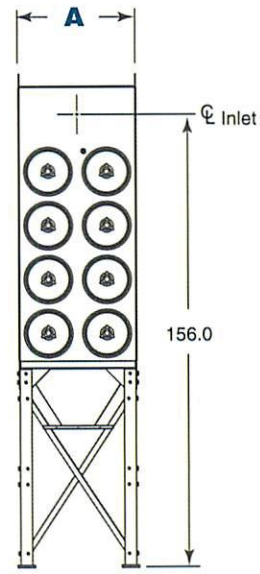
Dimensions & Specifications



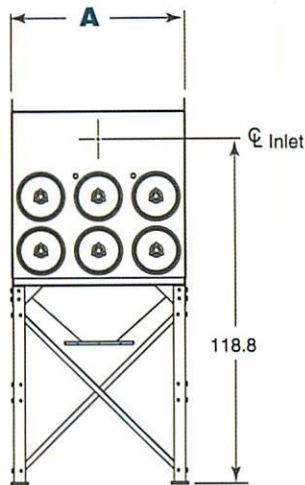
Front View
DFT 2-Models



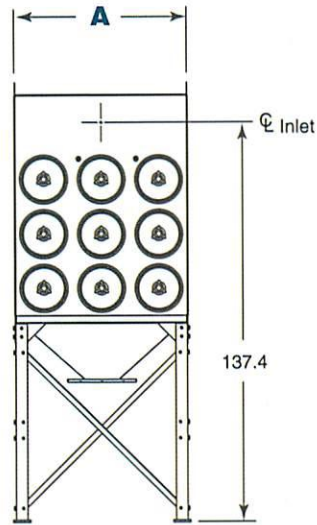
Front View
DFT 3-Models



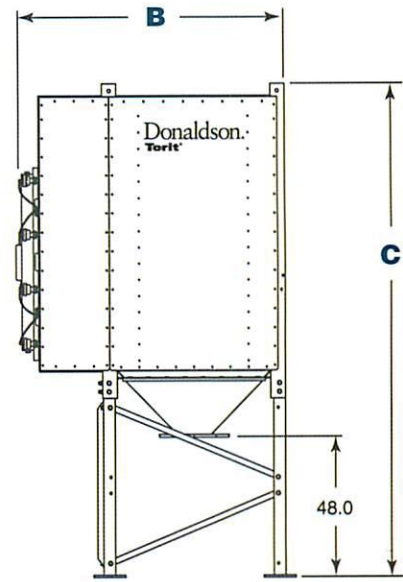
Front View
DFT 4-Models



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

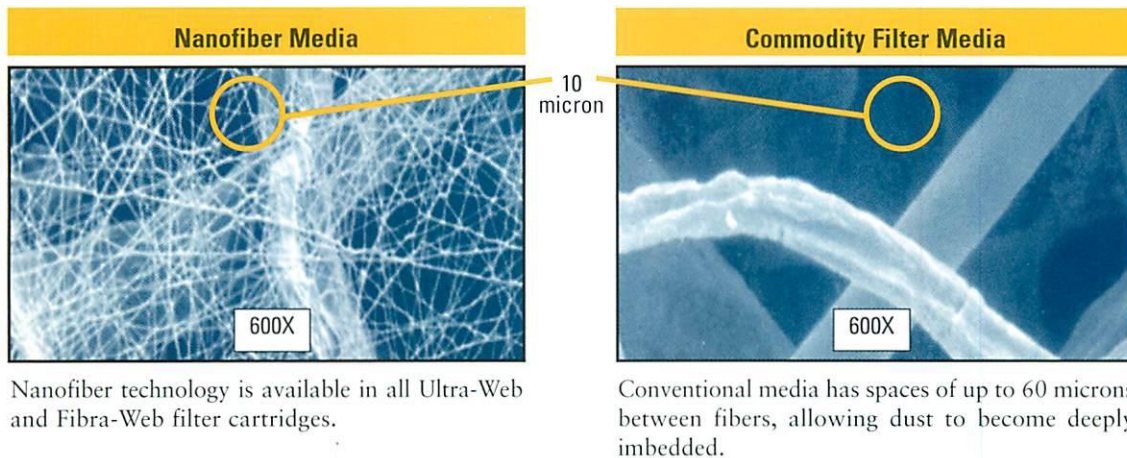
	Model*	Nominal Airflow Range**	No. of Filters	Ultra-Web Filter Area (ft ²)	No. of Valves	Shipping Weight (lbs)	Dimensions (inches)		
							A	B	C
DFT	2 - 4	500-3,150	4	1,016	4	1,678	40.0	64.5	117.3
	2 - 8	1,020-6,300	8	2,032	4	1,678	40.0	90.7	132.6
	2 - 12	1,525-9,450	12	3,048	6	2,392	60.0	90.7	132.6
	2 - 16	2,030-12,600	16	4,064	8	3,300	80.0	90.7	132.6
	2 - 24	3,050-18,900	24	6,096	12	4,600	120.0	90.7	132.6
	2 - 36	4,570-28,350	36	9,144	18	7,000	180.0	90.7	132.6
DFT	3 - 6	760-4,720	6	1,524	6	1,678	40.0	64.5	136.0
	3 - 12	1,525-9,450	12	3,048	6	2,078	40.0	90.7	151.2
	3 - 18	2,285-14,175	18	4,572	9	2,942	60.0	90.7	151.2
	3 - 24	3,050-18,900	24	6,096	12	4,200	80.0	90.7	151.2
	3 - 36	4,570-28,350	36	9,144	18	6,100	120.0	90.7	151.2
	3 - 48	6,100-37,800	48	12,192	24	8,000	160.0	90.7	151.2
	3 - 54	6,850-42,520	54	13,176	27	8,500	180.0	90.7	151.2
	3 - 60	7,620-47,240	60	15,240	30	10,100	200.0	90.7	151.2
	3 - 72	9,140-56,700	72	18,288	36	12,000	240.0	90.7	151.2
DFT	4 - 16	2,030-12,600	16	4,064	8	2,500	40.0	90.7	169.8
	4 - 32	4,060-25,200	32	8,128	16	4,600	80.0	90.7	169.8
	4 - 48	6,100-37,800	48	12,192	24	6,500	120.0	90.7	169.8
	4 - 64	8,130-50,390	64	16,256	32	8,500	160.0	90.7	169.8
	4 - 80	10,160-62,990	80	20,320	40	10,300	200.0	90.7	169.8
	4 - 96	12,190-75,590	96	24,384	48	12,100	240.0	90.7	169.8
	4 - 112	14,220-88,190	112	28,448	56	14,500	280.0	90.7	169.8
	4 - 128	16,260-100,790	128	32,512	64	16,000	320.0	90.7	169.8

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

** Based on clean filters.

Cartridge Filter Technology

Nanofiber Filter Media The distinguishing factor in our Ultra-Web® and Fibra-Web® filters is nanofiber filtration technology. It uses a layer of fibers 0.2 to 0.3 microns in diameter to capture contaminants less than one micron in size. With nanofiber filters, dust particles rapidly accumulate on the filter surface to build a thin, permeable dust-stopping cake. As a result, Ultra-Web and Fibra-Web filters offer the highest filtration efficiency by eliminating premature filter plugging and allowing the dust cake's release during the collector's cleaning cycle.



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

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

DFT Cartridge Filters

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

Featuring patented nanofiber technology, Ultra-Web and Fibra-Web cartridges provide filtration efficiency of 99.999% on 0.5 micron dust particles.* This advanced surface filtration technology ensures longest filter life and lowest operating pressure drop in a full range of cartridges:



- Ultra-Web
- Ultra-Web FR (flame retardant)
- Ultra-Web NL (a "no-liner," banded construction for enhanced dust release on statically charged dust)

- Fibra-Web
- Fibra-Web FR (flame retardant)



* Fractional efficiency is the ratio of the number of particles captured by the filters compared to the number entering the dust collector.

Standard Features & Options

Standard Features for Downflo II

- Ledgefree Housing Construction
- Ultra-Web® EZ Filters
- ExtraLife™ Filter Cleaning System
- Solid-State Timer in NEMA 4 Enclosure
- Inlets/Outlets Cut Per Customer Order
- Quick-Removal Access Covers
- Ledgefree Hopper
- Magnehelic®* Gauge
- 10-Year Warranty

Equipment Options for Downflo II

- Checker™ board Control Panel
- Delta P Control Panel
- Photohelic®* Gauge
- Abrasion Resistant Inlets
- Air Management Module
- Extended Dirty Air Plenum
- Drum Sentry™ Drum-Full Indicator
- Basic Cold Climate Kit
- Heavy-Duty Cold Climate Kit
- Direct Drive Fans
- Damper Pack
- Chamber and Exhaust Silencers
- Explosion Vents
- Rotary Valves and Transitions
- Slide Gates
- Drum Cover Arrangements
- Service Platform (OSHA Compliant)
- Solenoid Enclosure (NEMA 7 & 9)
- Hostile Environment Paint
- Lined Clean Air Plenum (for pulsing noise)
- Afterfilters
- Bag-Out Filter Change
- Bag-In/Bag-Out Filter Change
- Variety of Proprietary Cartridge Filters (for fibrous, nonfibrous, agglomerative, and high-temperature applications)

U.S. Patents 4,395,269; 5,562,746; 5,882,379.

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

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

Donaldson® Torit® Look to Donaldson Torit for all of your air filtration needs. Although you may not always see our products, you can breathe easier knowing we're there.

Customer Support For nearly 90 years, Donaldson Torit has been the leading innovator of air filtration solutions that make manufacturing plants a cleaner environment for employees the world over. Driven by an unwavering commitment to customer support, Donaldson Torit is the name more manufacturers around the globe trust to deliver the most efficient and productive dust, mist and fume collectors and filter media.

Unparalleled Innovation Whether our customers need a single collector or a multi-faceted collection system, Donaldson Torit has the solution. The expanse of Donaldson Torit's innovative product line is unmatched, offering unparalleled filtration systems, ancillary parts and replacement filters. From central, source and ambient systems to baghouse, envelope and cartridge technologies, Donaldson Torit has the expertise to provide filtration solutions for virtually any application.

Global Reach Donaldson Torit manufactures and markets its filtration products throughout the world. As more manufacturers continue to expand and grow their operations globally, Donaldson Torit will be there to serve and support our customers' needs.

Rely on the Industry Leader When it comes to air filtration, you need a partner you can trust. Rely on the world leader in air filtration—Donaldson Torit.



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