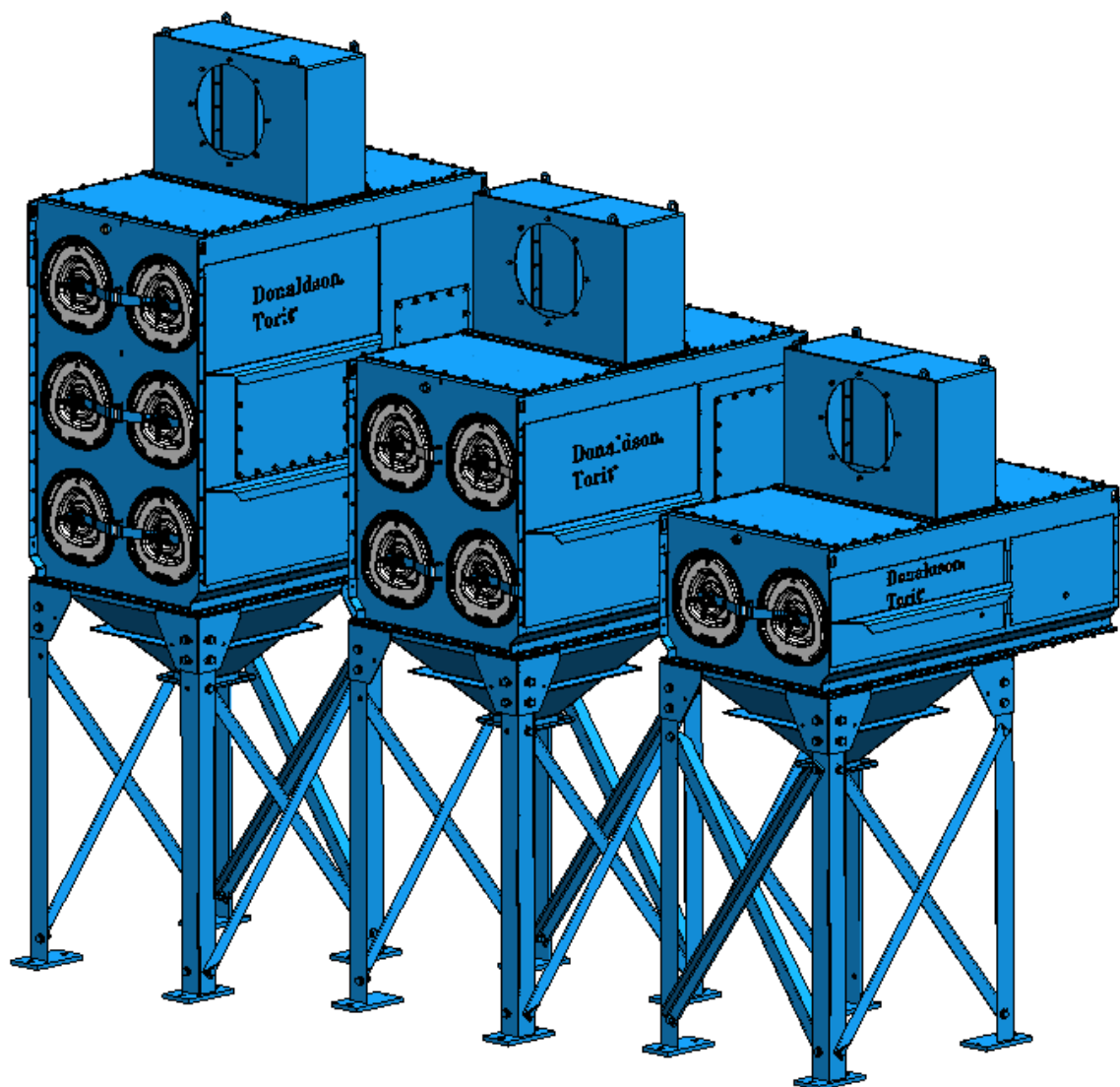


Donaldson®
Torit®

**HIGH VACUUM
DOWNFLO® EVOLUTION DUST
COLLECTORS**

UP TO 40%
FEWER FILTERS
& SMALLER FOOTPRINT



HV DFE with 4-lobe knob and hinges illustrated

EVOLUTIONARY DESIGN

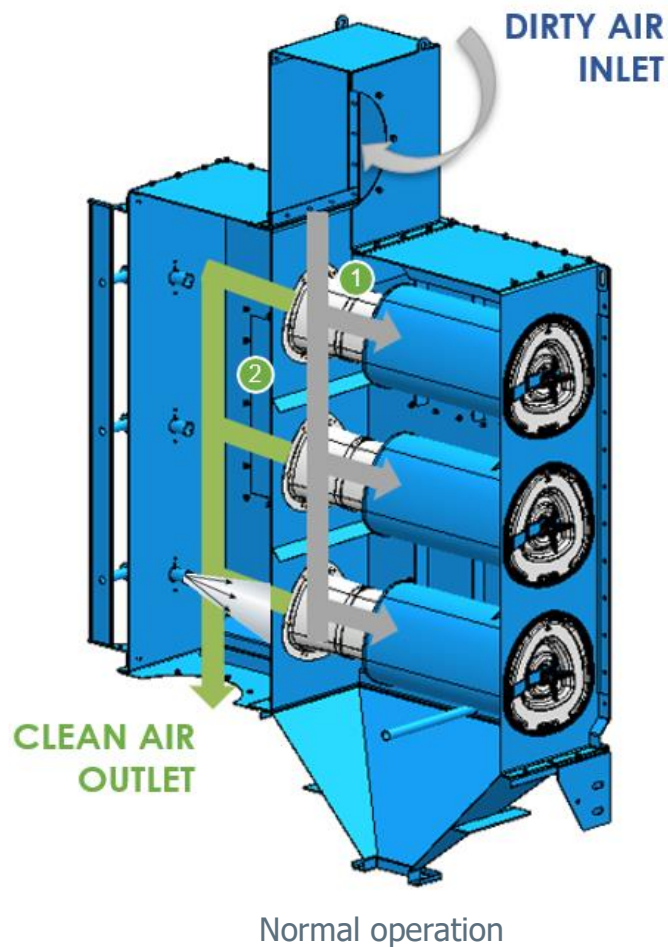
The high vacuum DFE is derived from normal DFE, so it has all the advantages of normal DFE serial products. In addition, it can bear -50kPa pressure by precise calculation and test in air lab. This state of the art collector, coupled with Donaldson's industry-leading Ultra-Web® fine fiber filtration technology, is truly an intelligent design.

ADVANTAGE:

- Lower initial cost per cubic foot of air per minute
- Higher efficiency—cleaner air
- Lower pressure drop—greater energy savings
- Fewer filter changeouts
- Reduced filter disposal cost
- Easy system setup
- Less maintenance

APPLICATIONS:

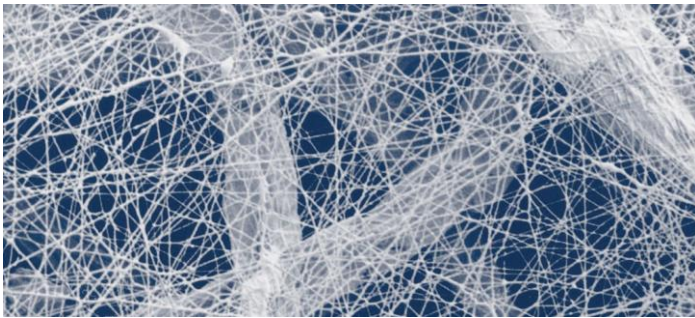
- Metal Grinding
- Plasma Cutting
- Dry Bulk
- Pharmaceutical
- Thermal Spray
- Welding
- Metal Manufacturing
- Glass
- Food Processing



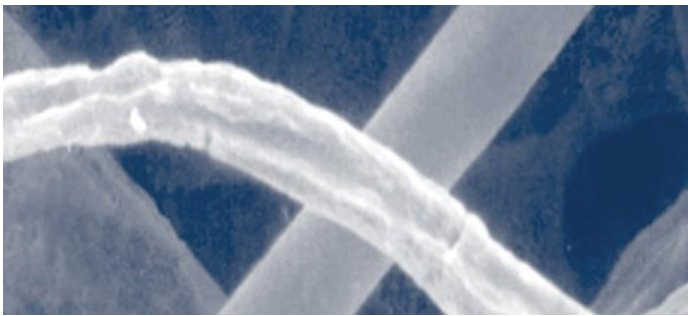
INDUSTRY-LEADING FILTRATION DESIGN

Our unique triangular cartridge filters – made with industry-leading Ultra-Web® fine fiber filtration technology – have more filter media at the bottom of the cartridge element so pulse-cleaning energy directs the ejected dust toward its ultimate destination – the containment vessel.

Ultra-Web filtration technology features a layer of fine fibers (0.2 - 0.3 microns in diameter) on the surface of the media to capture sub-micron contaminants. This makes the dust cake come off easily during automated cleaning cycles, ensuring cleaner air longer.



Fine Fiber Media (600px) – Fine fiber surface loading technology is available in all Ultra-Web and Fibra-Web® filter cartridges.



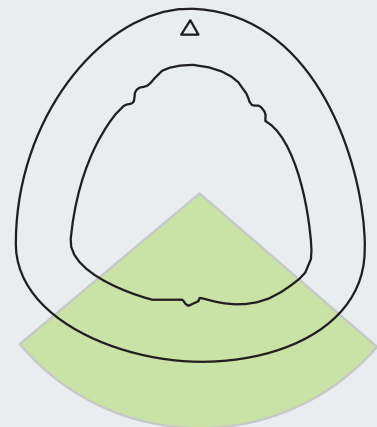
Commodity Filter Media (600px) – Conventional media has spaces of up to 60 µm between fibers, allowing dust to become deeply embedded.

With its more efficient cartridge filters and advanced downward airflow, the DBE requires fewer filters for the same filtration power, resulting in:

- Reduced filter replacement costs
- Reduced maintenance
- Reduced floor space requirement

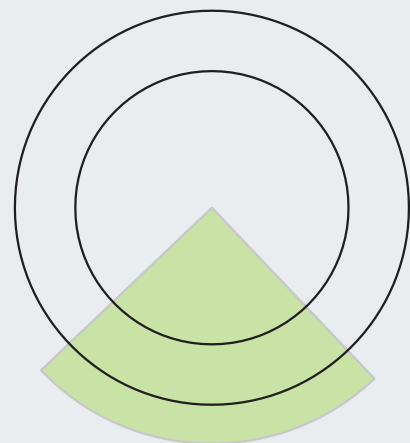
Triagonal filters are specifically designed for improved pulse cleaning, increased airflow per cartridge, and superior performance.

Triagonal Filter



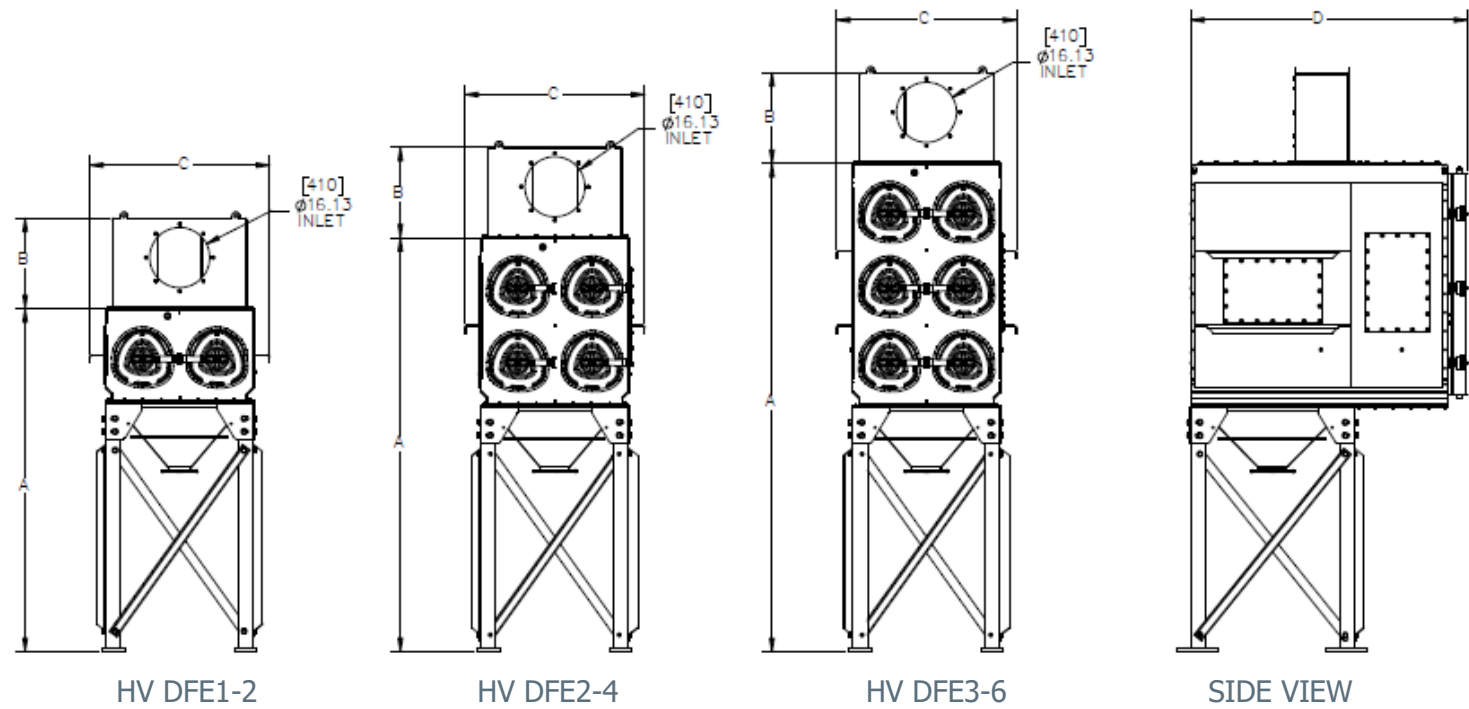
27% of Total Filter Media

Round Filter



25% of Total Filter Media

DIMENSIONS & SPECIFICATIONS



HV DFE Model*	No. of Filters	Ultra-Web Filter Area		No. of Valves	Approx. Shipping Weight *		Dimensions							
		ft²	m²		lb	kg	A		B		C		D	
							in	mm	in	mm	in	mm	mm	in
HV DFE 1-2	2	508	47.2	2	1980	898	92.00	2,337	24.28	617	48.39	1229	74.41	1890
HV DFE 2-4	4	1,016	94.4	4	2390	1084	111.00	2819	24.28	617	48.39	1229	74.41	1890
HV DFE 3-6	6	1,524	141.6	6	2800	1270	131.00	3327	24.28	617	48.39	1229	74.41	1890

OPERATING CONDITIONS FOR HV DFE COLLECTORS

High vacuum DFE	
Housing rating (in of h ₂ O/mm of h ₂ O)	-197/-5000
Housing Construction	Strong 4.5-6 mm Mild steel structure per GB standards
Seismic Spectral Acceleration	S _s = 1.5 S ₁ = 0.6
Wind Load Rating (mph/kph)	90/145
Compressed Air Required (psi/bar)	90-100/6.2-6.9
Operating Temperature	150°F/ 66°C
Control Voltage	120 VAC-or-220 VAC

STANDARD FEATURES & OPTIONS

Collector Design	Std	Opt
Mild Steel Construction	✓	✓
Max Pulse™ Filter Cleaning System	✓	
Access Covers with 4-Lobe Knob and Hinges	✓	
Inlets	✓	
Hopper Pack	✓	
Leg Pack	✓	
Sprinkler Taps	✓	
Bag-In and Bag-Out (Filter)		✓
Explosion Vent		✓
Steep Hopper		✓
Cartridge Filters		
Ultra-Web® (MERV* 15)	✓	
Variety of Torit-Built® filter cartridges		✓
Paint System		
Standard FINISH (Powder Coating)	✓	
Custom Colors		✓
Electrical Controls & Enclosures		
Delta P-C01 Control	✓	
Solenoid Enclosure (NEMA 9)		✓

* The Minimum Efficiency Reporting Value (MERV) of this filter cartridge has been determined through independent laboratory testing using ASHRAE 52.2 (2007) test standards. The MERV rating was determined at a face velocity of 118 feet (36.0 meters) per minute and loading up to four inches (101.6 millimeters) 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.



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EXACTLY WHAT YOU NEED.™

DFE Dust Collectors (11/2021)

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