

COMPACT, COMPLETE, CONVENIENT

DOWNFLO® EVOLUTION PRE-ASSEMBLED LARGE DUST COLLECTOR



Donaldson.
FILTRATION SOLUTIONS



Smart Collector
Powered by iCue™ Technology



PRODUCTIVITY MEETS PRACTICALITY

Today's advanced manufacturing tools operate in faster-paced environments, which is great for helping you meet your production goals, but can add a lot of dust to your work environment.

The Downflo® Evolution Pre-assembled Large (DFPRE) series of collectors was designed as a packaged system to answer customer demand for a compact, convenient, and reliable filtration system that can help maximize production uptime in non-combustible dust applications. The result is a family of innovative, easy-to-install dust collectors – DFPRE 4, 6, 9 and 12 – engineered to provide advanced filtration performance and operational confidence.

Keep your operation moving at top speed – while managing the dust that comes with productivity – with effective and reliable dust management solutions that can support:



**EHS
Programs**



**Production
Uptime**



**Economical Cost
of Ownership**



**Packaged & Easy
Installation**



APPLICATIONS

Donaldson offers effective dust control solutions for your continuous manufacturing processes:

- Metal & Machining
- Industrial Processing
- Waste & Recycling
- Mining & Mineral Processing
- Food & Agriculture
- Chemical & Petroleum Products
- Pharmaceuticals





INNOVATIONS IN DUST CONTROL

For more than 40 years, Donaldson has been at the forefront of cartridge filter collection and has developed game-changing dust control solutions that are designed to support performance, convenience, and total cost of ownership.

Smart Collector

This Smart Collector comes standard with Donaldson's iCue™ Connected Filtration Technology. It monitors your equipment and provides operational insights through automated alerts and a dashboard that's accessible from your computer or smart device.

Spark Reducing Inlet

When incorporated as part of an overall fire mitigation strategy, it can help reduce the risk of a spark entering the dust collector by directing the airstream through a tortuous path via the low-side air inlet.*

*Intended for use in applications with an increased fire risk and can be used as part of an overall fire mitigation strategy. No single spark mitigation device, including the Spark Reducing Inlet, can guarantee the elimination of all sparks and ignition sources from entering the dust collector. Please contact your Donaldson sales representative to discuss additional fire mitigation strategies as necessary.

DFPRE SERIES: DESIGNED TO PERFORM

These advancements have resulted in next-generation dust control systems. With a DFPRE collector, you'll discover:

Peak Performance

The air path and horizontal filter design allow for downward airflow in the dirty air plenum and enable optimal dust dropout.

Clean Processes

An optional airflow damper for quick airflow adjustments, as well as an optional backdraft damper to eliminate backflow of contaminant during downtime cleaning.

Cost Savings

The optional Spark Reducing Inlet helps reduce filter load and prolong filter life by pre-separating larger particles.

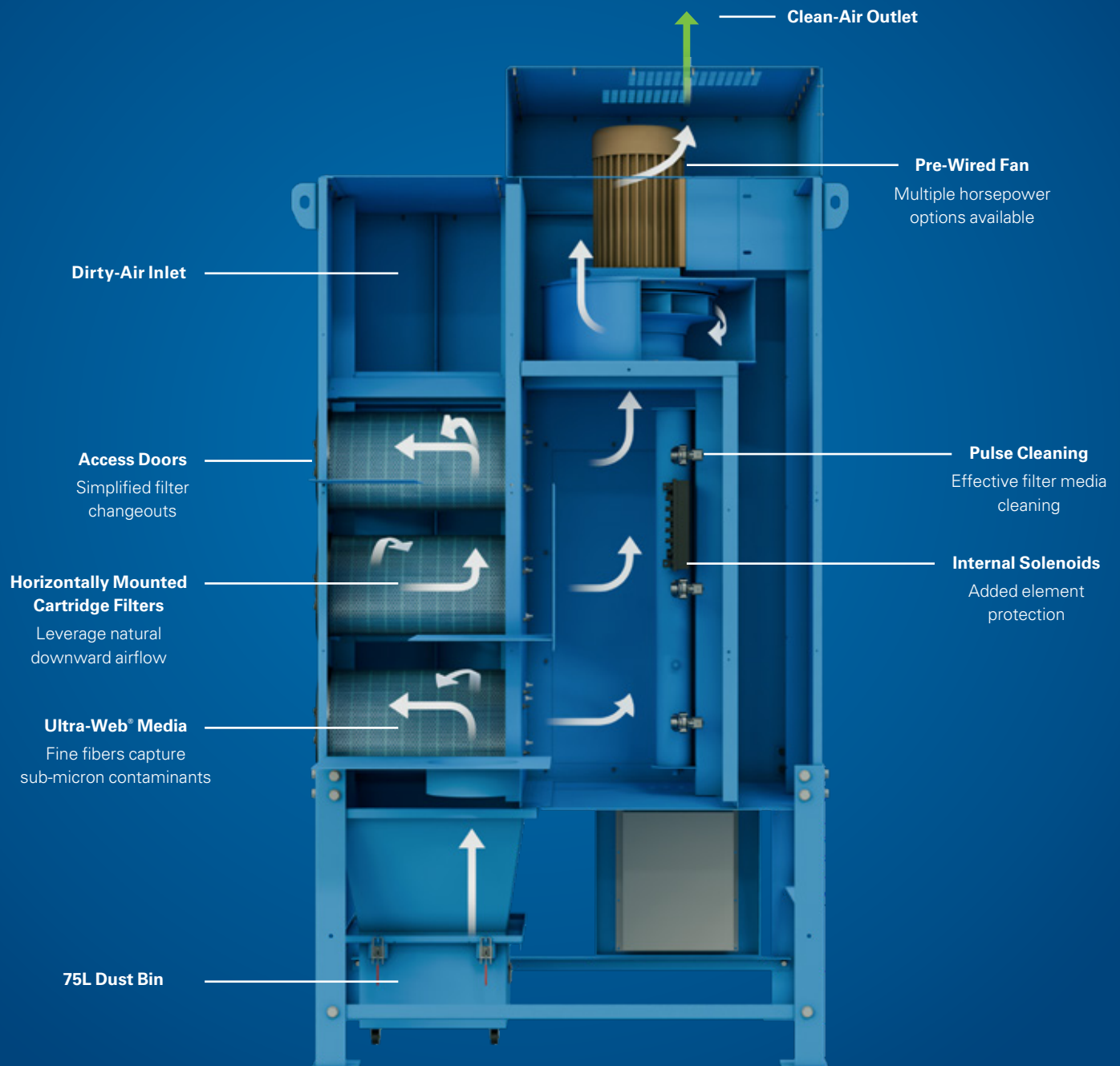


ENGINEERED TO EXCEL

The DFPRE 4, 6, 9 and 12 utilize natural downward airflow for increased filtration performance. By ducting the dirty air into the collector from above the filters, the downward airflow forces heavy particulate from the airstream into the hopper.

The collector's horizontally mounted filters make filter changeouts easy and even help limit exposure to dust during the process. The filter orientation also contributes to reduced compressed air usage since most of the heavy particulate has already found its way to the containment vessel.

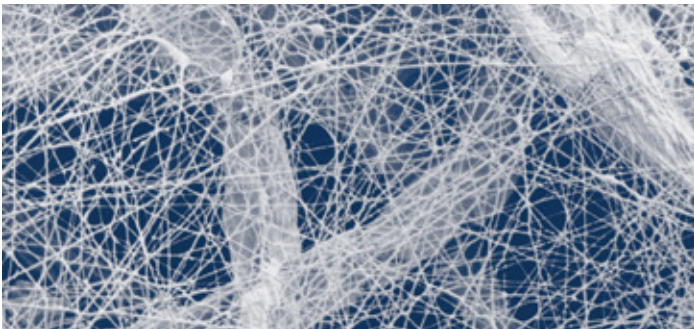
The unit's pre-wired fan and controls help take you from installation to operation fast, while the timely pulse cleaning adds to filter life and performance.



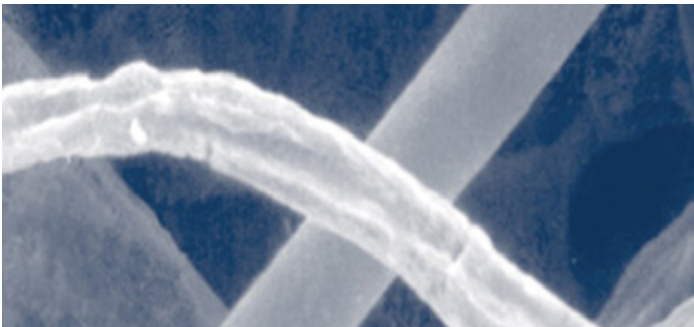
INDUSTRY-LEADING FILTRATION DESIGN

Our unique triagonal 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 efficient cartridge filters and advanced downward airflow, the DFPRE requires fewer filters for the same filtration power, resulting in:

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

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

In addition, Donaldson's DFPRE filters are placed strategically within the collector to allow for easy and fast filter replacement, and they are sized to avoid allowing the filter to exceed 50 pounds when loaded with dust. Convenient access panels allow operators to manage contaminant during changeouts.

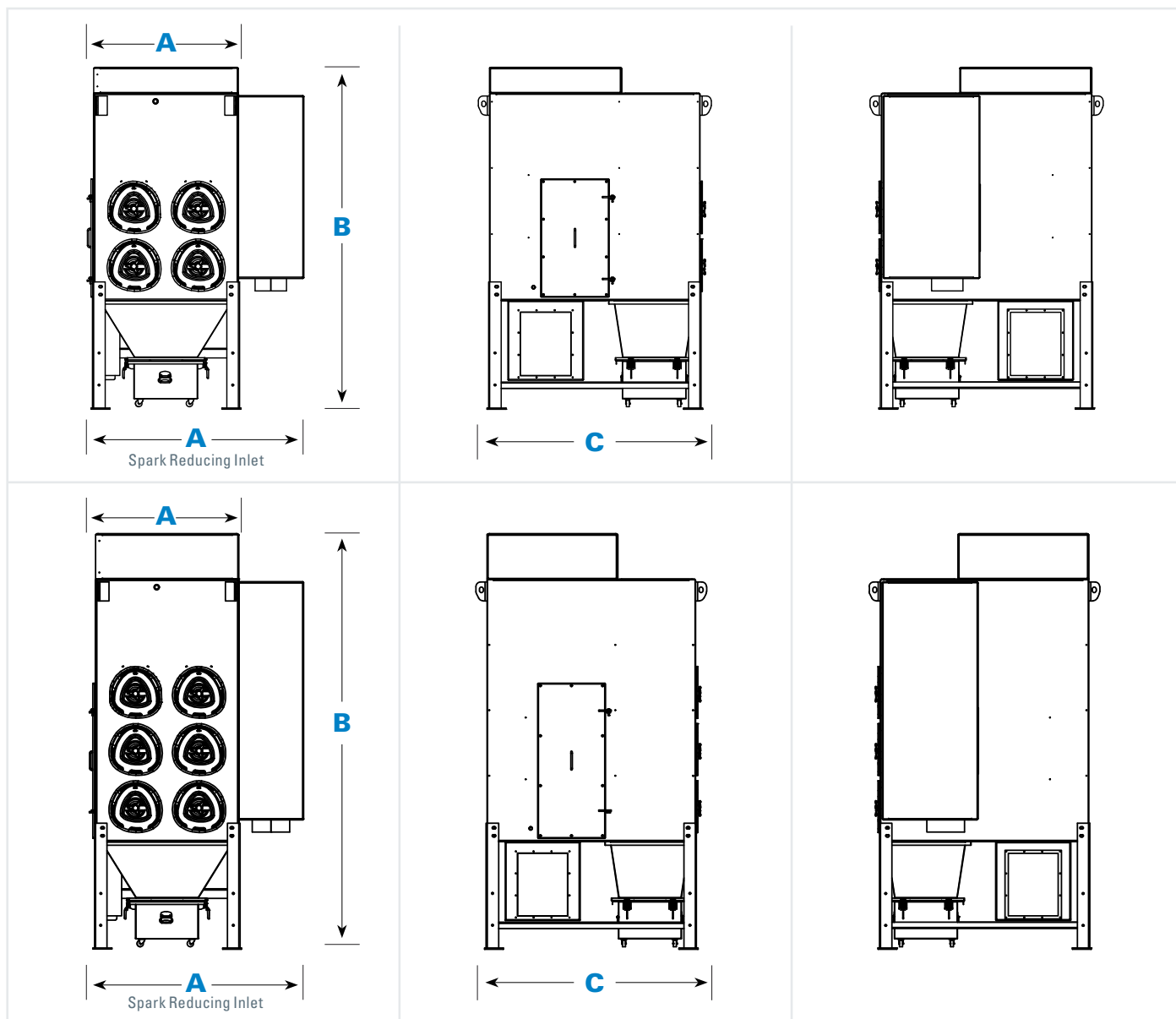
Triagonal Filter



Round Filter



DIMENSIONS FOR THE DFPRE 4 & 6

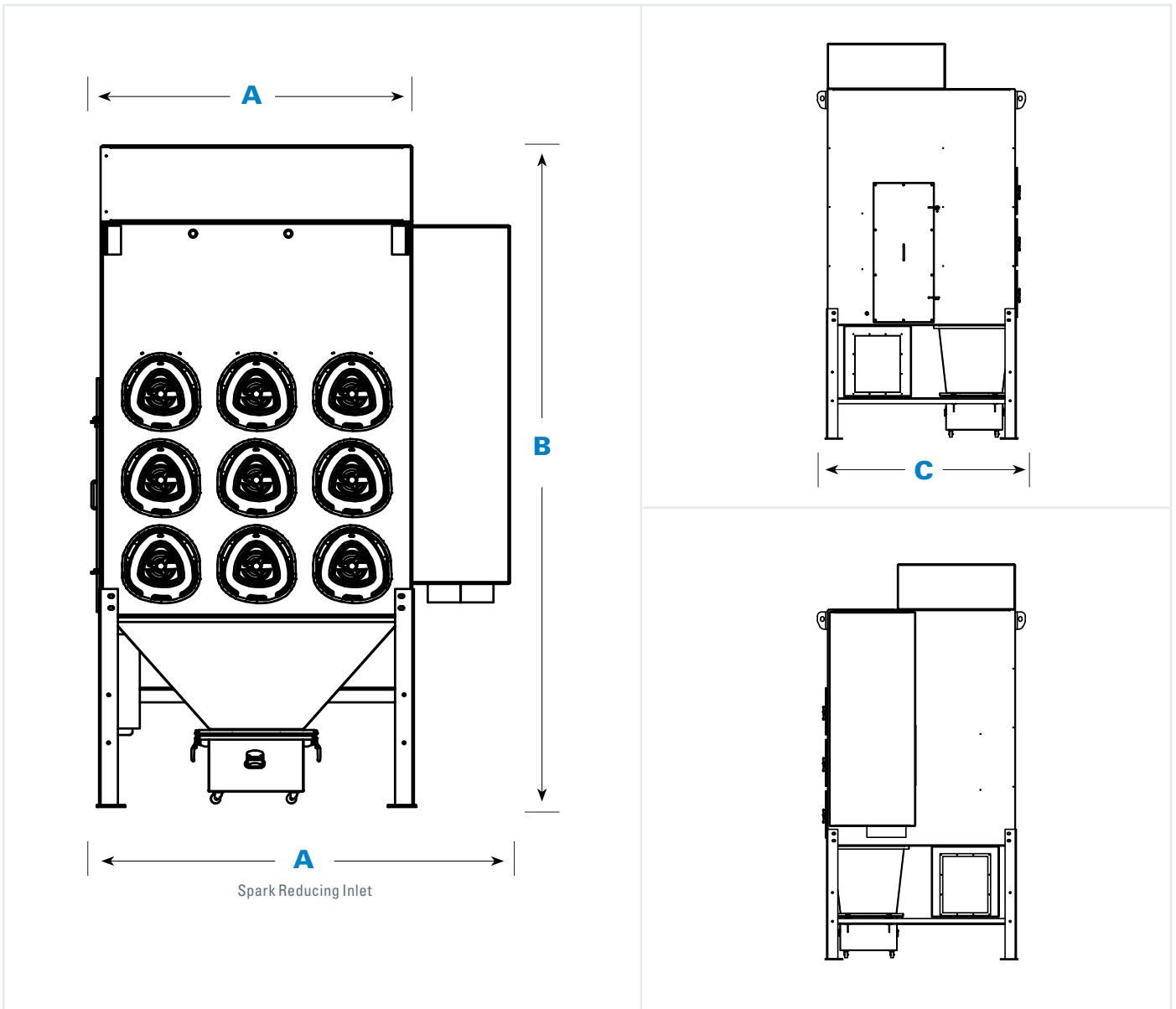


Model	Number of filter elements	Filtration area (m ²)	Number of valves	Dimensions (mm)*			Weight (kg)**
				Width A	Height B	Depth C	
DFPRE 4	4	94.4	4	47.3" (1,197)	106.6" (2,707)	72.7" (1,846)	1,877 lbs. (851)
DFPRE 4 with Spark Reducing Inlet				67.5" (1,715)	106.6" (2,707)	72.7" (1,846)	2,074 lbs. (941)
DFPRE 6	6	141.6	6	47.3" (1,197)	131" (3,328)	72.7" (1,846)	2,033 lbs. (922)
DFPRE 6 with Spark Reducing Inlet				67.5" (1,715)	131" (3,328)	72.7" (1,846)	2,304 lbs. (1,045)

* Without accessories or optional equipment. Dimensions & Weights depend on the options chosen.

** Weights include filter cartridges and are for collectors prior to first use, i.e., with no dust collected. Excludes shipped loose items.

DIMENSIONS FOR THE DFPRE 9

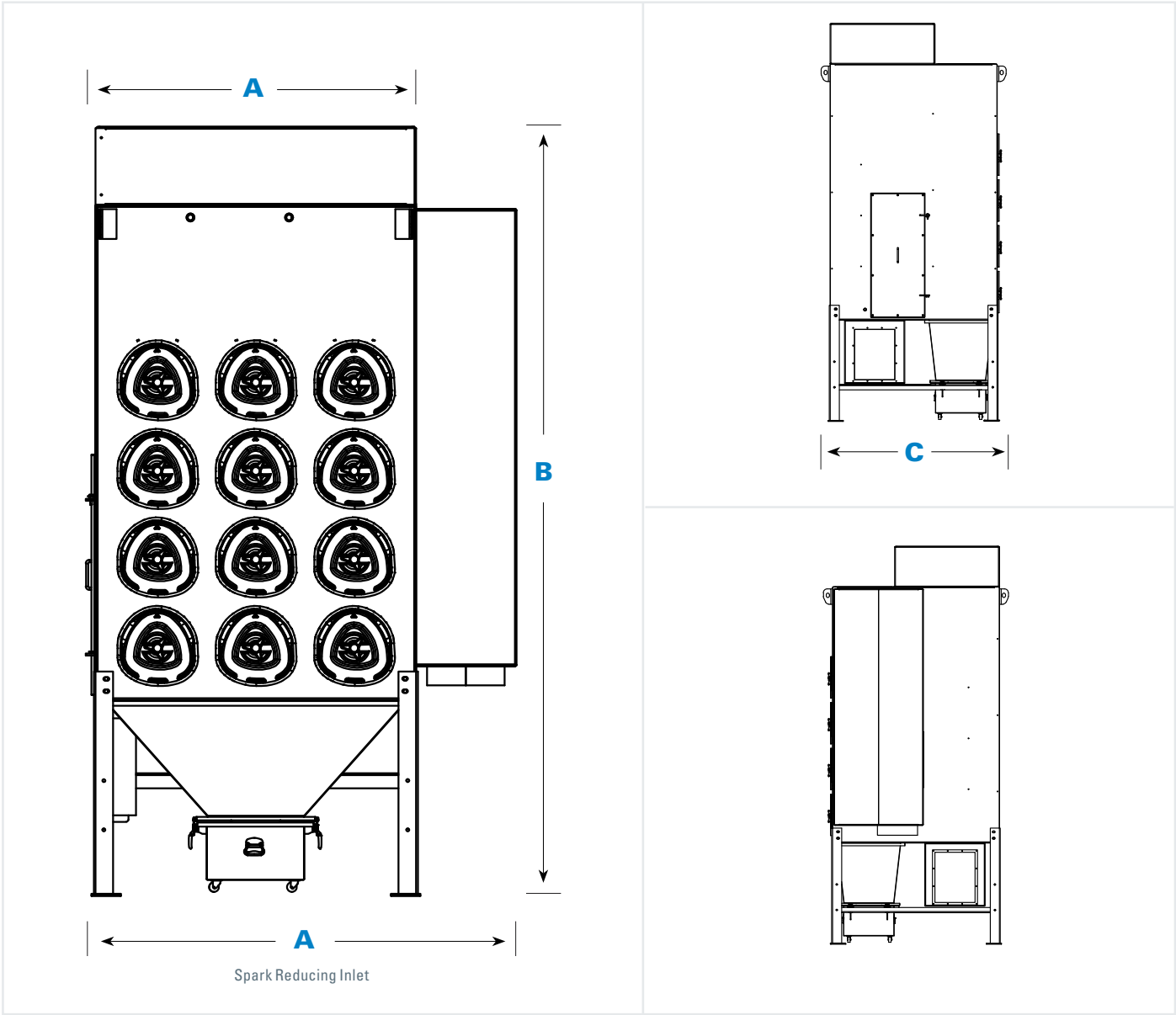


Model	Number of filter elements	Filtration area (m ²)	Number of valves	Dimensions (mm)*			Weight (kg)**
				Width A	Height B	Depth C	
DFPRE 9	9	212.4	9	66.97" (1,701)	138.39" (3,515)	72.7" (1,846)	2,840 lbs. (1,288)
DFPRE 9 with Spark Reducing Inlet				87.4" (2,219)	138.39" (3,515)	72.7" (1,846)	3,111 lbs. (1,411)

* Without accessories or optional equipment. Dimensions & Weights depend on the options chosen.

** Weights include filter cartridges and are for collectors prior to first use, i.e., with no dust collected. Excludes shipped loose items.

DIMENSIONS FOR THE DFPRE 12



Model	Number of filter elements	Filtration area (m²)	Number of valves	Dimensions (mm)*			Weight (kg)**
				Width A	Height B	Depth C	
DFPRE 12	12	283.2	12	66.97"(1,701)	156.4" (3,972)	72.7" (1,846)	3,235 lbs. (1,467)
DFPRE 12 with Spark Reducing Inlet				87.4"(2,219)	156.4" (3,972)	72.7" (1,846)	3,580 lbs. (1,624)

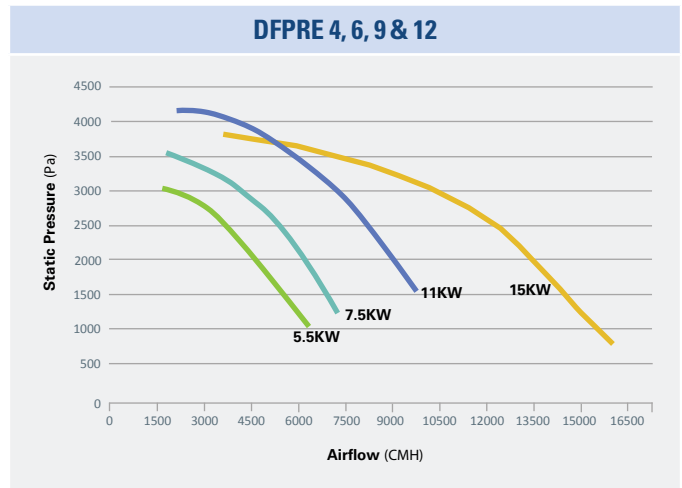
* Without accessories or optional equipment. Dimensions & Weights depend on the options chosen.
** Weights include filter cartridges and are for collectors prior to first use, i.e., with no dust collected. Excludes shipped loose items.

FEATURES & OPTIONS FOR THE DFPRE 4, 6, 9 & 12

Collector Features	Std	Opt
Mild Steel Construction	X	
Filter Cleaning System	X	
Quick Removal Access Covers	X	
Hinged Access Covers		X
Abrasive Resistent Inlet		X
Spark Reducing Inlet	X	
Chamber Silencer	X	
KY Fan	X	
Sprinkler Taps**	X	
Ultra-Web® Flame Retardant Media	X	
Other Media Options		X
Paint System	Std	Opt
Power Coating	X	
Textured Multi-Coat Paint Finish	X	
Custom Colors		X
Premium Duty Finish		X
Hopper Discharge	Std	Opt
75L Dust Container	X	

Electrical Controls, Gauges & Enclosures	Std	Opt
Control Box with Delta P-C02 and Motor Starter	X	
Donaldson's iCue™ Connected Filtration Technology		X

Power Pack Fan Motors	DFPRE 4	DFPRE 6	DFPRE 9	DFPRE 12
Fan Horsepower	5.5 KW	7.5 KW	11 KW	15 KW
Decibel Level (Max dBA)*	78 ± 2 dBA (depending on KW)			



* Standard sound pressure levels were taken at an operator position of 1.5 m high and 1 m from the source.

** Design and installation of fire protection in consultation with local authorities.



SMART COLLECTOR. SMART CHOICE.

Choosing a Donaldson Smart Collector means choosing an industry-leading dust, fume, and mist collection solution for your operation and employees.

Smart Collectors come equipped with Donaldson's iCue™ Connected Filtration Technology. The system tracks your equipment, providing real-time data and analytics to help maximize uptime, increase maintenance efficiency, and manage your operation's critical compliance data. Our industry professionals, extensive product portfolio, and outstanding service and support make your Smart Collector a Smart Choice.



UNPARALLELED
PERFORMANCE



INNOVATIVE FILTER
MEDIA TECHNOLOGY



INTELLIGENT
ENGINEERING



Smart Collector
Powered by iCue™ Technology



Donaldson.

Donaldson Company, Inc.
Minneapolis, MN

donaldson.com • shop.donaldson.com

North America

Email: donaldsontorrit@donaldson.com
Phone: (USA) +1-800-365-1331

Latinoamerica

Email: industrialair@donaldson.com
Phone: +52-449-300-2442
Toll Free: (CO) (57) 601-580-1611
(CL) +800-914-544 • (PE) +800-712-10
(BR) +55 (11) 99707-6689

China

Email: info.cn@donaldson.com
Phone: +86-400-921-7956

Donaldson Europe B.V.

Email: IAF-europe@donaldson.com
Phone: +32-16-38-3811

India

Email: info.difs@donaldson.com
Phone: +91-124-4807-400 • +18001035018

Australasia

Email: marketing.australia@donaldson.com
Phone: +61-02-4350-2066

Korea

Email: contactus.kr@donaldson.com
Phone: +82-2-517-3333

South Africa

Email: SAMarketing@donaldson.com
Phone: +27-11-997-6000

Southeast Asia

Email: IAF.SEA@donaldson.com
Phone: +65-6311-7373

Japan

Email: jp-ndl.ifsw@donaldson.com
Phone: +81-42-540-4114



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