Donaldson
Torit®

POWERCORE® V-SERIES FILTER PACK

ENGINEERED FOR DUST COLLECTION

- Ultra-Web® fine fiber media ensures longer filter life at a significantly lower pressure drop
- Surface filtration offers superior particle release
- Fluted construction packages more effective filter area in a smaller space
- Filter pack is designed with easy-grip handles.
- Easy filter changeout for quick maintenance — no tools required
- MERV* 13 filtration efficiency rating (standard)
- MERV* 15 filtration efficiency rating (optional)

PowerCore® V-Series Filter Packs
(Also available in Flame-Retardant, Spunbond and Anti-Static)

PowerCore
A Donaldson Filtration Technology

PROVEN TECHNOLOGY THAT PERFORMS

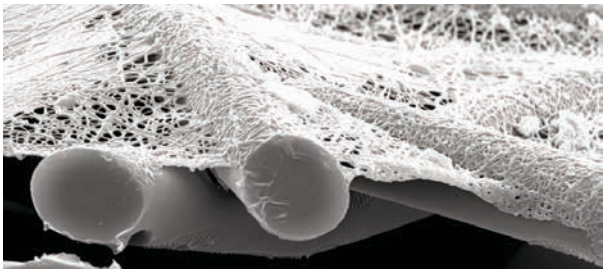
Proven and proprietary Ultra-Web® filter media delivers longer filter life, cleaner air and greater cost savings than other traditional filter media. It is made with an electrospinning process that produces a very fine, continuous, resilient fiber of 0.2-0.3 microns in diameter.

PowerCore filter packs with Ultra-Web media keep dust on the surface of the fluted channels where it is easily cleaned off unlike conventional filter media that depth loads.

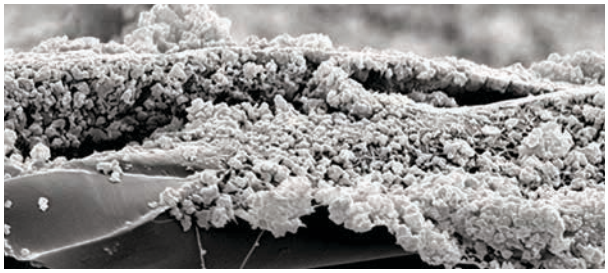
- Surface loading promotes improved filter cleaning and longer life
- Improved pulse cleaning lowers operational pressure drop and energy use

SEM† IMAGES

1 micron = 1/25,400 of an inch (1/1,000 millimeters)



Clean Ultra-Web Media



Surface-Loaded Ultra-Web Media
(substrate still clean)

† Scanning Electron Microscope
* Refer to Technical Information on page 2.

APPLICATIONS

- Premium performance on fine, dry, fibrous and/or abrasive dust
- Flame retardant version available
- Optional Conductive FR media available for applications where electrostatic charges can be hazardous
- Optional Spunbond media available for high humidity applications

MEDIA COMPATIBILITY DATA		
Temperature Resistance	150°F 65°C	
Moisture Absorption**	Maximum 14% @ 70°F (21°C) and 65% RH	
Chemical Tolerance***	Acids: Poor Bases: Fair	Oxidants: Poor Solvents: Fair
Moisture Absorption** for Spunbond	0.2-0.5% @ 70°F (21°) and 65% RH	
Chemical Tolerance*** for Spunbond	Acids: Good Bases: Good	Oxidants: Good Solvents: Good
Abrasion Resistance	Excellent per TAPPI 476 (Taber Method)	

SPECIFICATIONS

MEDIA COMPOSITION	
Fine fiber Technology	Durable proprietary synthetic filter media fiber and polymer Mean fiber diameter of 0.2 µm
Substrates	Proprietary blend of cellulose fibers Flame-retardant version per UL®† Standard 558, TAPPI Standard T 461 om-94, and DIN 53438 Part 3 Conductive FR version per ESD STM 11.11-2001 Resistance less than 10^6 OHM Spunbond Polyester

MEDIA EFFICIENCY	
U.S. Efficiency Rating	MERV* 13 (standard)
U.S. Efficiency Rating	MERV* 15 (optional)

FILTER PACK CONSTRUCTION	
Standard Construction	Rectangle design Metal casing Fluted media configuration Urethane gasket Built-in handle

CURRENT AVAILABLE CONFIGURATIONS

Collector Models	Dimensions		PowerCore			
	in	mm	Standard	Flame Retardant	Conductive	Spunbond
VH	36.3 x 22.4 x 5.3	922 x 569 x 135	•	•	•	•
VL	36.3 x 22.4 x 5.3	922 x 569 x 135	•	•	•	•

† UL is a registered trademark of Underwriters Laboratories, Inc.

* 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 per minute (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.

** Environmental conditions involving combinations of high temperature, corrosive material, and moisture can reduce media strength. Reduction in media strength may compromise cartridge integrity and performance.

*** A combination of chemicals may alter fiber resistance to the specified performance level. Chemical attack may compromise cartridge integrity and performance.

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and parts.

Important Notice
Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

Donaldson.

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