KOMSA





Filtro a cartucce FMC

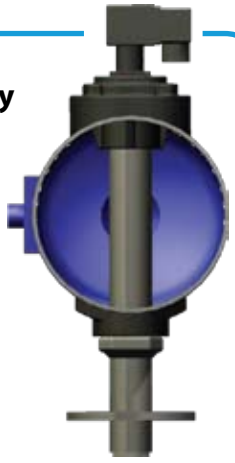
Depolveratore

The FMC200 (1,850-15,000 CFM)

The FMC200 Cartridge Filter is ideal for removal of fine dusts and fumes that can be irritating and harmful. It has a compact design and side removal of filter media for easy maintenance. The compact design can accommodate two sizes of filter elements (standard and long) to fit into spaces where height and or footprint constraints exist.

Immersion Valve Technology (IVT)

Increases peak pressure and flow with lower air consumption compared to traditional valves.



The UniClean Cartridge

The UniClean cartridge was designed with the purpose of increasing the effective cleaning pressure within the cartridge and equalizing its effect over the complete length of the cartridge.

The UniClean device is a simple but very effective component integrated into the construction of the cartridge element.

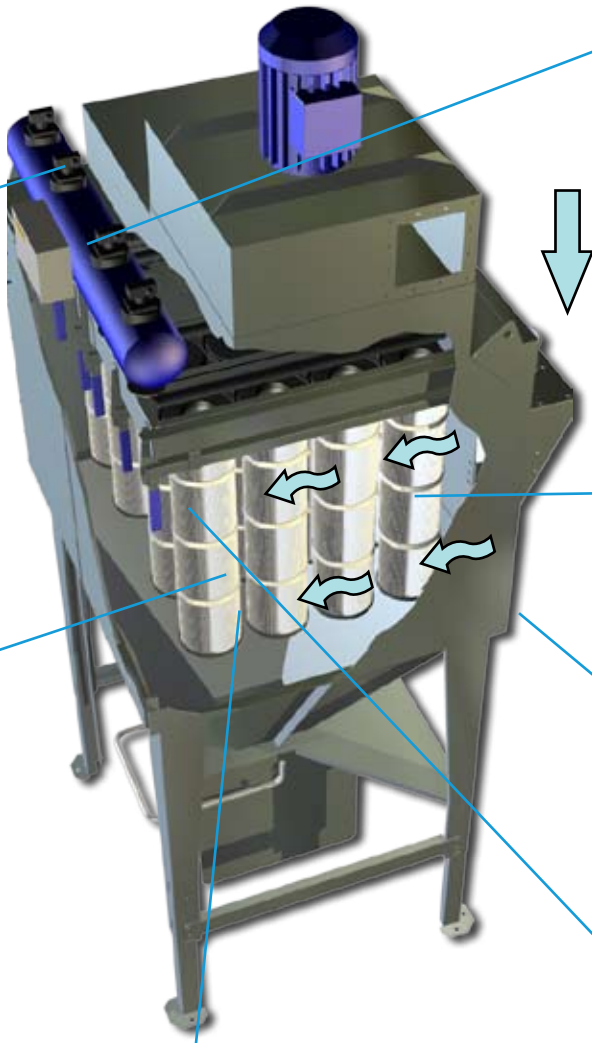
Patented UniClean insert

Lasts TWICE as along as competitor cartridges!

Benefits:

- Higher internal cleaning pressure reduces cleaning requirement and thus compressed air consumption, increasing cartridge life.
- Uniform cleaning of complete cartridge increases effective filter area and reduces differential pressure, saving fan power and energy costs.
- Lower compressed air pressure requirement; increased cartridge life.

Patented UniClean Cartridges and Immersion Valve Technology Minimize Filter Replacement



New Nano-Fiber (CA178) with MERV 15 Rating!

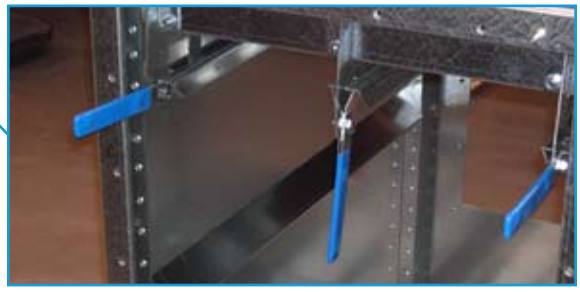
Optimized Perimeter Velocity and wide pleat cartridge handle tough dust applications

The FMC200 (1,850-15,000 CFM)

NF-HD controller: Delta-P functionality minimizes operational costs. LED Screen: displays pressure drop and alarm messages. Programmable for four different stop down cleaning modes and time message for maintenance interval

Efficient Cross Flow Design and Vertical Cartridges reduce pressure drop

Robust Galvanized Finish



Camlock side access removal provides easy service and maintenance

Technical Parameters:

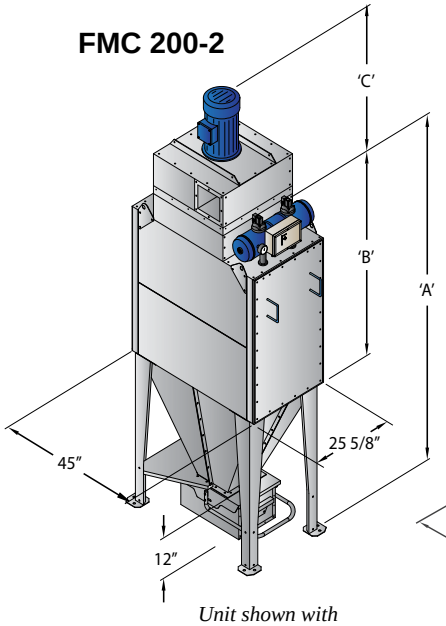
- ***Standard cartridge in polyester CA100:5g/m3 max. of fine or coarse dusts***
- ***Construction: Galvanized (Powder Coat Optional)***
- ***Maximum working temp 167°F***
- ***Max Dust Load: Polyester Spun Bond – 5 g/m2, Cellulose – 1 g/m2***
- ***Standard Door Type: Bolted (Hinged Optional)***
- ***Controller: NFHD Delta-P***
- ***Inlet: Cross Flow with Solid Deflector Plate***
- ***Air inlet part fitted with a deflector plate***
- ***Compressed Air Cleaning System: 1" Dia. NPT, (Max. 6 bar)***
- ***Explosion Vent Kits: ST1, ST2, and ST3 (contact us for ST3)***
- ***Max. negative pressure: 16" wg***
- ***Max. normal over pressure: 6" wg***
- ***Optional Inlet and Outlet Adapters: 6", 10", 12", 16", 20", 22" Diameters***
- ***Inlet and Outlet Adapter Connection Type: Raw, QF, and Flanged***

Typical Applications:

Shot Blasting
Sand Blasting
Meal Grinding
Welding Smoke / Fumes
Plasma / Laser Cutting
Thermal Spray
Nuisance Dust Ventilation
Paper Scrap Systems
Recycling Operations
Grain / Agriculture
Powder and Bulk Materials
Pharmaceutical
Chemical Processing
Powder Painting and Pigment

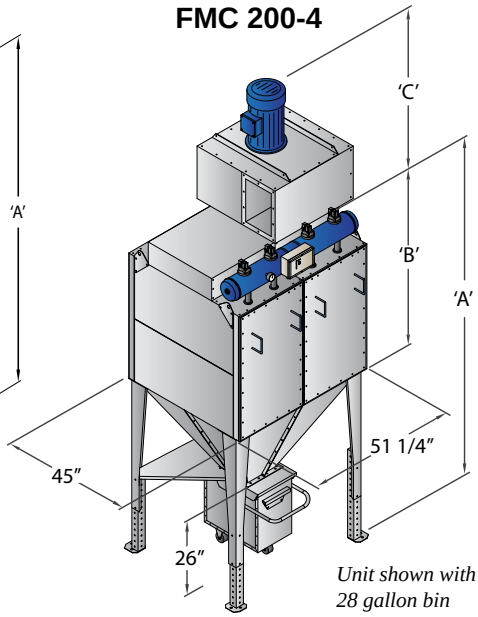
Unit Specifications

FMC 200-2



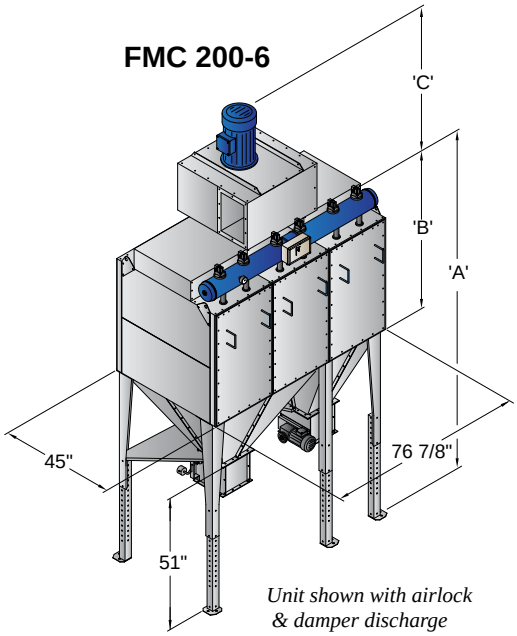
Unit shown with 14 gallon bin

FMC 200-4



Unit shown with 28 gallon bin

FMC 200-6

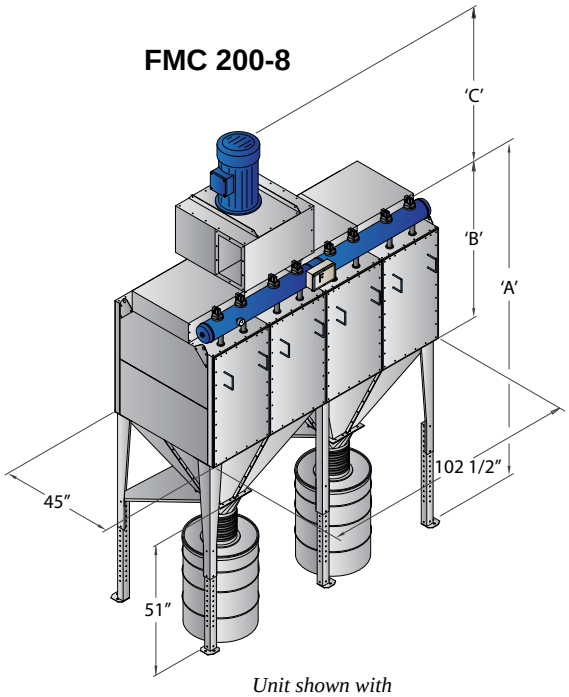


Unit shown with airlock & damper discharge

MODEL NUMBER	NO. OF CATRIDGES AND TYPE	FILTER MEDIA (ft^2)	MAX AIR VOLUME (cfm)	'A1' With small bin (14gal.)	'A2' With large bin (28gal.)	'A3' With large drum (55gal.) or air-lock	'B'	'C'	STANDARD FAN ARRGT.	WEIGHT FILTER & FAN (lbs)
FMC200-2L	8 POLYESTER	344	1850	96.375”	110.5”	135.5”	51.5”	27”	FM 620 5 HP	800
	8 CELLULOSE	775								
FMC200-2A	8 POLYESTER	570	3100	117.75”	131.5”	157”	73”	27”	FM 625 7.5 HP	1,000
	8 CELLULOSE	1249								
FMC200-4L	16 POLYESTER	689	3700	96.375”	110.5”	135.5”	51.5”	38”	FM 825 10 HP	1,300
	16 CELLULOSE	1550								
FMC200-4A	16 POLYESTER	1140	6200	117.75”	131.5”	157”	73”	43”	FM 831 20 HP	1,500
	16 CELLULOSE	2497								
FMC200-6L	24 POLYESTER	1,033	5,500	96.375”	110.5”	135.5”	51.5”	43”	FM 828 15 HP	2,000
	24 CELLULOSE	2,325								
FMC200-6A	24 POLYESTER	1,711	9,200	117.75”	131.5”	157”	73”	43”	2 x FM 828 2 x 15 HP	2,400
	24 CELLULOSE	3,745								

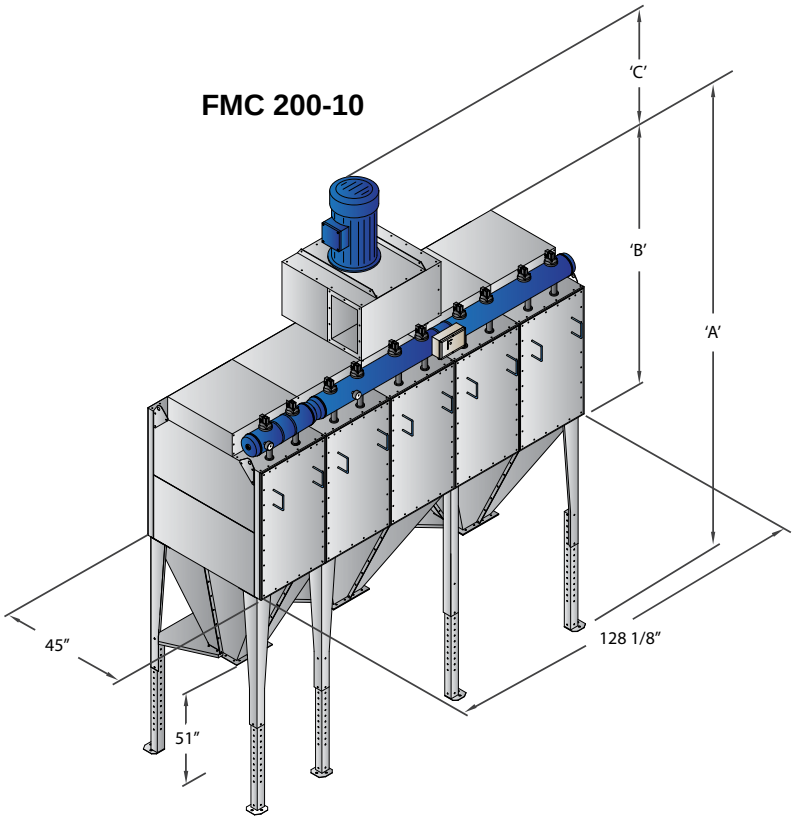
Unit Specifications

FMC 200-8



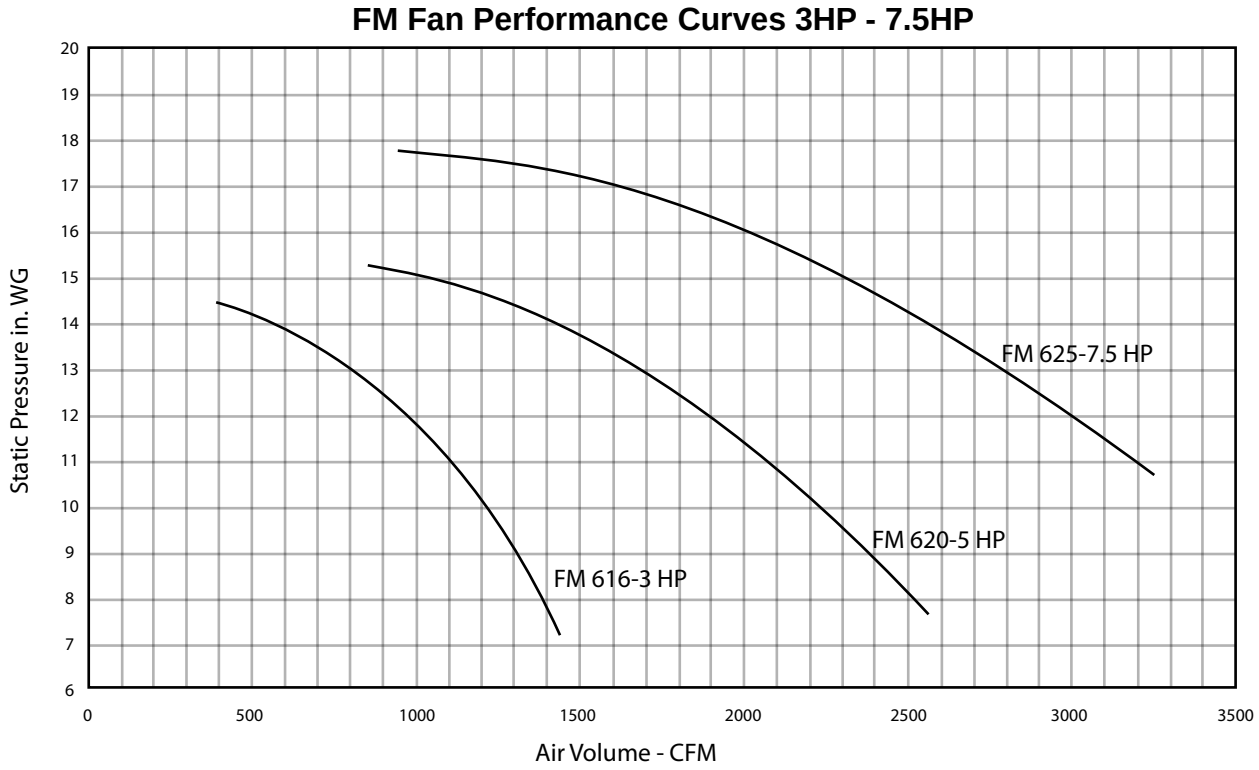
Unit shown with 55 gallon drum

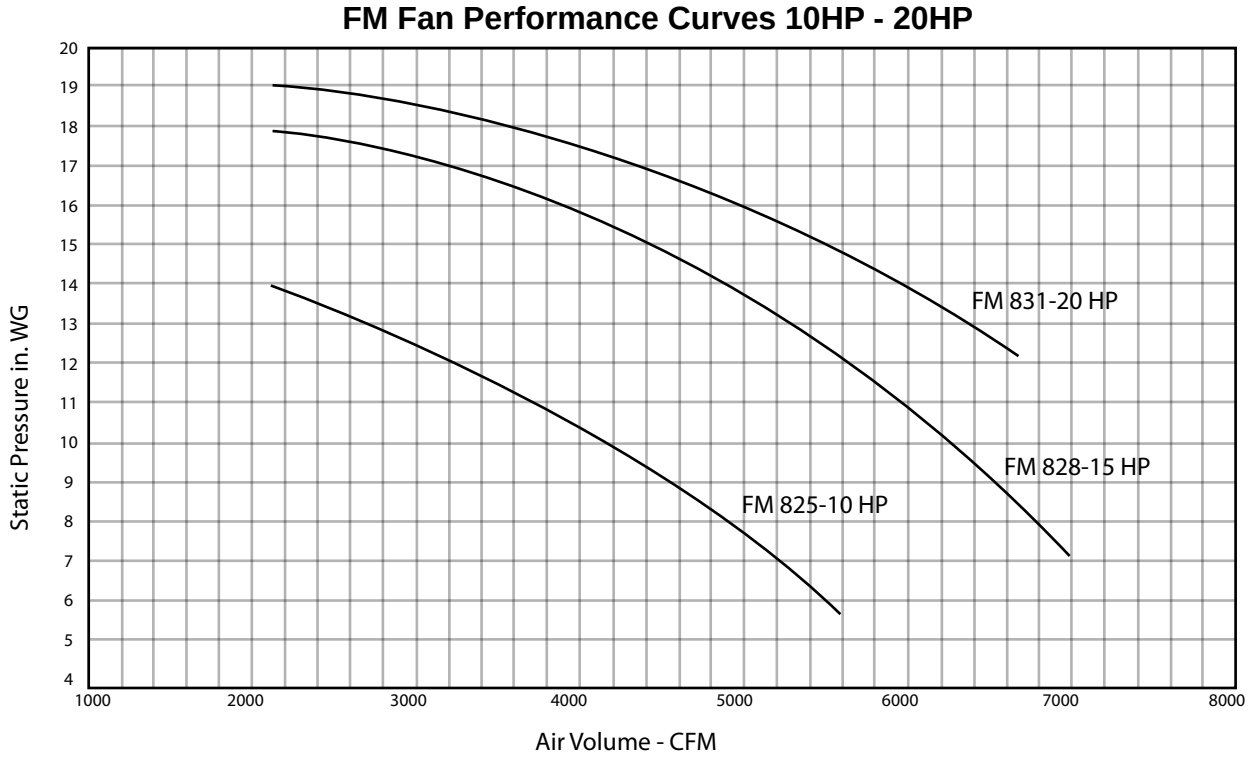
FMC 200-10



MODEL NUMBER	NO. OF CARTRIDGES AND TYPE	FILTER MEDIA (ft^2)	MAX AIR VOLUME (cfm)	'A1' With small bin (14gal.)	'A2' With large bin (28gal.)	'A3' With large drum (55gal.) or air-lock	'B'	'C'	STANDARD FAN ARRGT.	WEIGHT FILTER & FAN (lbs)
FMC200-8L	32 POLYESTER	1,378	7,400	96.375"	110.5"	135.5"	51.5"	38"	2 x FM 825 2 x 10 HP	2,500
	32 CELLULOSE	3,100								
FMC200-8A	32 POLYESTER	2,282	12,300	117.75"	131.5"	157"	73"	43"	2 x FM 831 2 x 20 HP	3,200
	32 CELLULOSE	4,994								
FMC200-10L	40 POLYESTER	1,723	9,250	96.375"	110.5"	135.5"	51.5"	43"	2 x FM 828 2 x 15 HP	3,400
	40 CELLULOSE	3,875								
FMC200-10A	40 POLYESTER	2,853	15,350	117.75"	131.5"	157"	73"	43"	2 x FM 831 2 x 20 HP	4,200
	40 CELLULOSE	6,243								

FMC Fan Curves





FMC Options

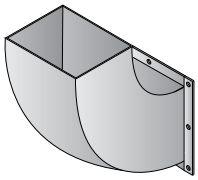
14 gallon quick release bin

28 gallon quick release bin with wheels

NRS3 rotory air-lock

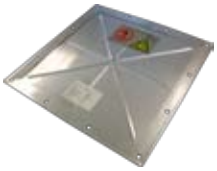
NFSU3 counter balanced dump valve

Fan outlet transition



Fan outlet elbow

Silencer

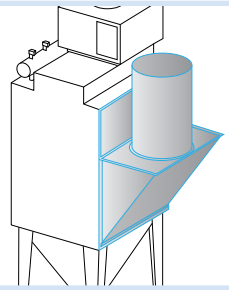


Explosion panel

Fan outlet damper

55 gallon drum assembly

CARZ Explosion Isolation Flap



Backpack

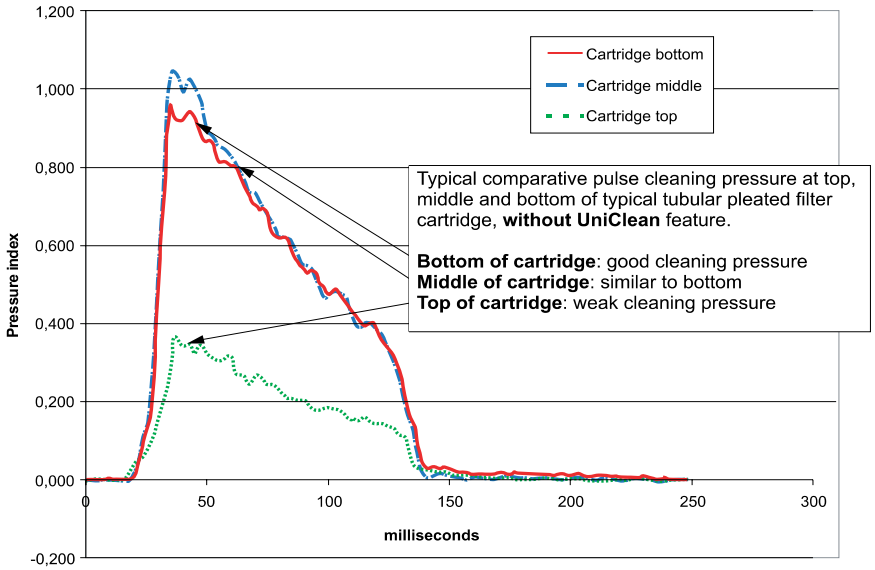
Hoerbiger Flameless Vent

Smartflow System

Firetrace

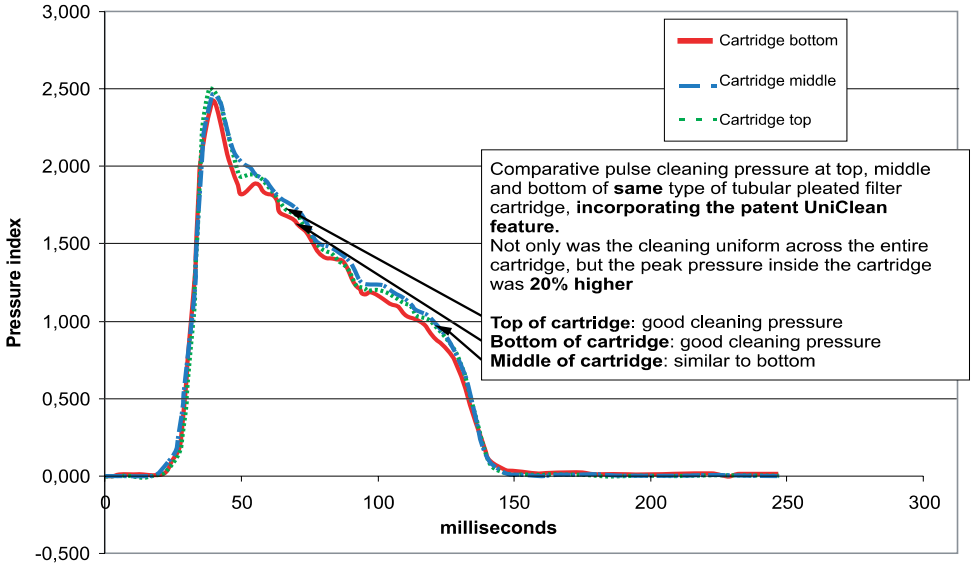
UniClean Cartridge Benefits

The **UniClean** cartridge was the result of an exhaustive design project with the purpose of increasing the effective cleaning pressure within the cartridge and equalizing its effect over the complete length of the cartridge. The **UniClean** device is a simple but very effective component integrated into the construction of the cartridge element .



4m² ø200 dust loaded Conventional Cartridge

Benefits achieved by this patented invention.



4m² ø200 dust loaded UniClean Cartridge

- Higher internal cleaning pressure reduces cleaning requirement and thus compressed air consumption, increasing cartridge life.
- Uniform cleaning of complete cartridge increases effective filter area and reduces differential pressure, saving fan power and energy costs.
- Lower compressed air pressure requirement; increased cartridge life

The Nederman Advantage

All Dantherm Filtration cartridge collectors utilize the patented **UniClean** *design to offer customers one of the longest life and most efficient cartridges on the market today.*

This brochure provides datasheets for the wide array of media offerings to meet the most demanding dust applications along with technical discussions about the important features of each of the cartridge offerings.

These cartridges are offered in our:
FM (modular style side entry collector),
MJ (welded outdoor top entry collector), and
SILOSAFE (silo vent top entry bin collector).
Please refer to the respective product brochure to see how the UNICLEAN cartridge is utilized.

Cartridges

CA100
Spun bonded polyester

CA105
Spun bonded polyester with moisture treatment

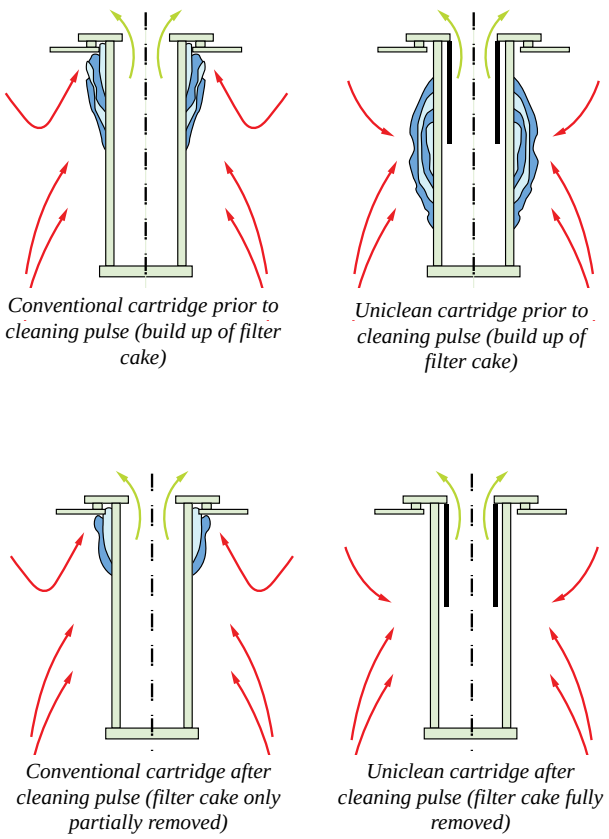
CA140
Spun bonded polyester with anti-static treatment

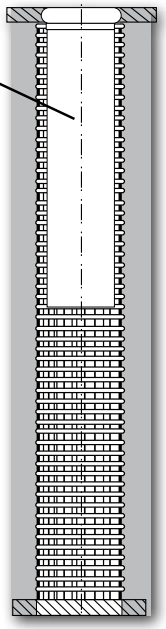
CA190
Spun bonded polyester with PTFE coating

CA198
PTFE membrane media

CA175
80/20 Cellulose with flame retardant

CA178
80/20 Cellulose with melt blown NANO fiber and flame retardant





The UniClean Cartridge

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UniClean Benefits:

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- Lower compressed air pressure requirement; increased cartridge life.

CA-100 Filter Cartridge

Heavy-Duty Polyester Spunbonded nonwoven filter media at 260 g/m²

Common Applications

- Chemical Processes
- Pharmaceutical
- Pigment
- Powder Coating
- Plastics and Catalysts
- Food Processes
- Mineral Processes
- Metal Processes

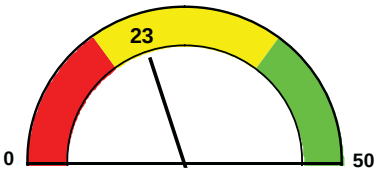
CA-100 is a high-strength, 100% synthetic spunbonded media with excellent durability, particulate release and moisture resistance. Continuous operating temp 275°F

ETV
www.epa.gov/etv

Basis Weight 160 lbs/300 ft²

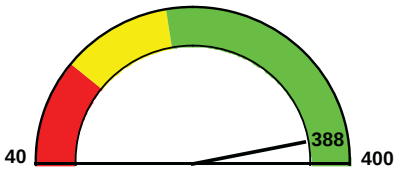
CA-100 Media Performance

Frazier Permeability - CFM



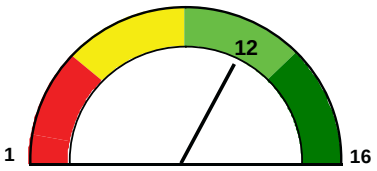
Permeability of 23 is moderate. The higher the permeability, the greater the airflow and throughput. Higher airflow leads to decreased energy costs.

Strength - Mullen Burst (Dry) PSI



Dry Mullen of 388 PSI is extremely high for dust filtration applications. The higher the mullen burst, the stronger the media. Strength in media leads to longer filter life.

Ashrae 52.2 "MERV"



Test results on a common cartridge configuration. Initial efficiency is moderate for below 3 microns, but should be only one of many factors to be considered when choosing the optimum media for your application.

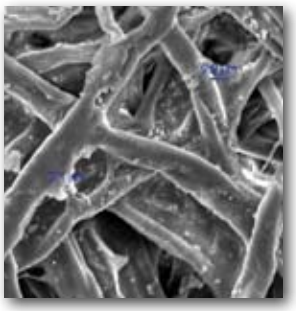
CA-175 Filter Cartridge

Blended cellulose/synthetic fiber paper, non-phenolic resin system with fire retardant material applied

Common Applications

- Laser Cutting
- Metal Spray
- Metal Grinding
- Polishing
- Textiles
- Tobacco
- Wood Working
- Welding

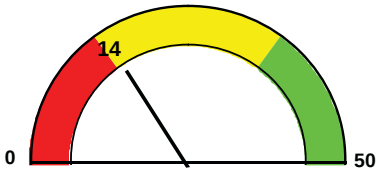
CA175 is an excellent grade of paper which is suitable for most applications. It is moisture resistant and has fire retardant properties compliant with NFPA701 and TAPPI T-461. Continuous operating temperature 200°F



Basis Weight 87 lbs/300 ft²

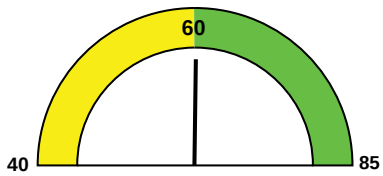
CA-175 Media Performance

Frazier Permeability - CFM



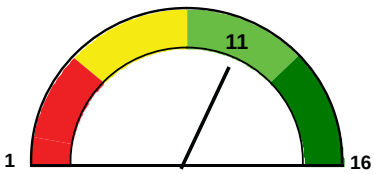
Permeability of 14 is moderate. The higher the permeability, the greater the airflow and throughput. Higher airflow leads to decreased energy costs.

Strength - Mullen Burst (Dry) PSI



Dry Mullen of 60 PSI is moderate/high for dust filtration applications. The higher the mullen burst, the stronger the media. Strength in media leads to longer filter life.

Ashrae 52.2 "MERV"



Test results on a pleated/panel configuration. Initial efficiency is moderate for below 3 microns, but should be only one of many factors to be considered when choosing the optimum media for your application.

CA-140 Filter Cartridge

Static dissipating heavy-duty polyester spunbonded nonwoven filter media at 260 g/m²

Common Applications

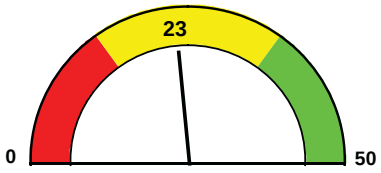
- Chemical Processes
- Pharmaceutical
- Pigment
- Plastics and Catalysts
- Mineral Processes
- Finish Mill

CA-140 is a high-strength, 100% synthetic spunbonded media with excellent durability, particulate release and moisture resistance. Contains an aluminized anti-static surface. Continuous operating temperature is 275°F.
Meets NFPA 77 regulations.

Basis Weight 160 lbs/300 ft²

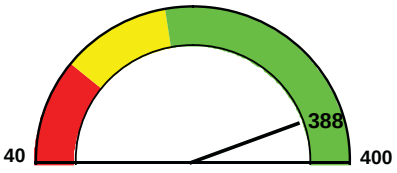
CA-140 Media Performance

Frazier Permeability - CFM



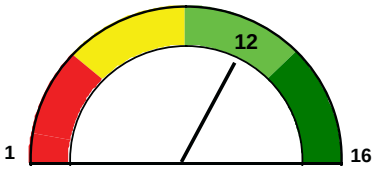
Permeability of 23 is moderate. The higher the permeability, the greater the airflow and throughput. Higher airflow leads to decreased energy costs.

Strength - Mullen Burst (Dry) PSI



Dry Mullen of 388 PSI is extremely high for dust filtration applications. The higher the mullen burst, the stronger the media. Strength in media leads to longer filter life.

Ashrae 52.2 "MERV"



Test results on a common cartridge configuration. Initial efficiency is moderate for below 3 microns, but should be only one of many factors to be considered when choosing the optimum media for your application.

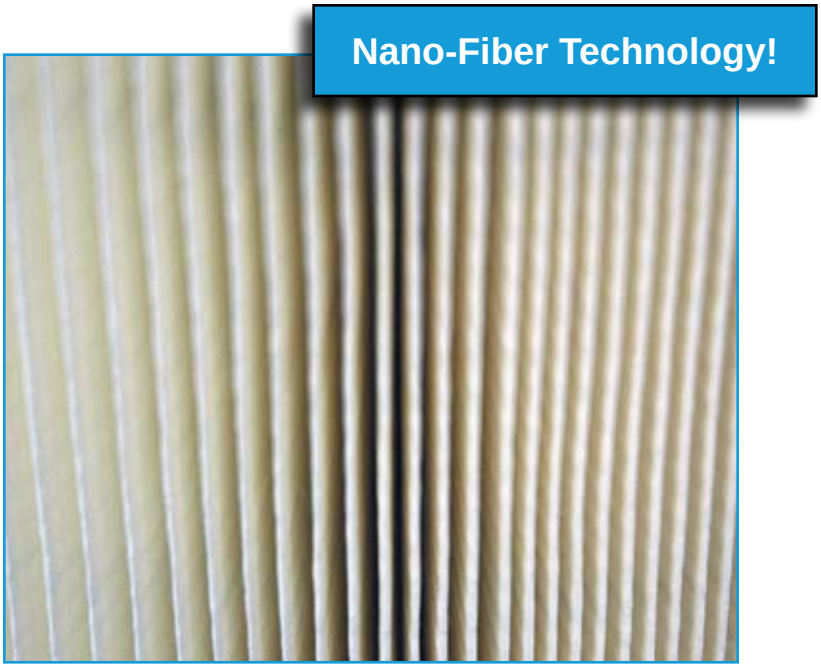
CA-178 Filter Cartridge

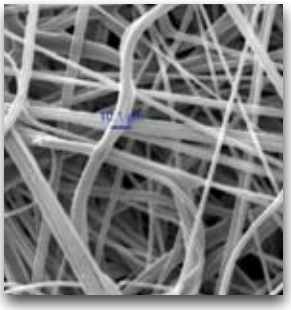
Blended paper with melt-blown nano-fiber and micro-fiber efficiency layer with fire retardant material applied

Common Applications

- Gas Turbine Inlet Filter
- Mineral Processes
- Dry Chemical Processes
- Fiberglass
- Paper Dust
- Weld Smoke Fume
- Powder Coating
- Shot Blast

CA-178 is a high efficiency, fire-retardant paper grade.
Certified to meet NFPA701 and TAPPI T-461
Fire Retardant Requirements

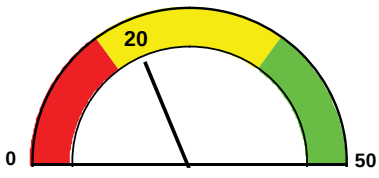




Basis Weight 108 lbs/300 ft²

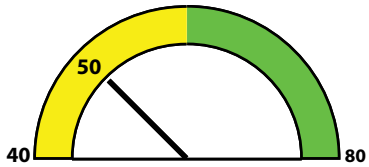
CA-178 Media Performance

Frazier Permeability - CFM



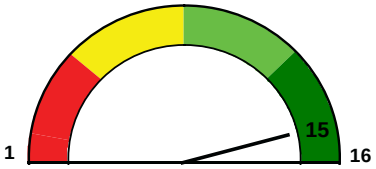
Permeability of 20 is excellent for paper media. The higher the permeability, the greater the airflow and throughput. Higher airflow leads to decreased energy costs.

Strength - Mullen Burst (Dry) PSI



Dry Mullen of 50 PSI is moderate for dust filtration applications. The higher the mullen burst, the stronger the media. Strength in media leads to longer filter life.

Ashrae 52.2 "MERV"



Test results on a common cartridge configuration. Initial efficiency is excellent for below 1 micron. Once the cartridge achieves a proper dust cake, the efficiency will increase. MERV should only be one of many factors in choosing the optimum media for your application.

Installations

Metal Fabricating Welding Fumes

Plastic Composites Dust

Metal Fabricating Welding Fumes

Polishing/Grinding Brass Castings Dust

Flour, Starch, and Garlic Dust from Mixers

Rubber Refacing Process Dust

Installations

Fugitive Dust from Paper Shredding

Fume Extraction from Laser Cutting

Shot Blasting Steel Casting Dust

Fume Extraction from Plasma Cutting

Composite Grinding Dust

Steel Grinding Process Dust

Soluzioni KOMSA per le vostre necessità di aspirazione

Vi mostriamo qui di seguito alcuni esempi di sistemi di aspirazione che fanno parte della nostra ampia gamma di prodotti.
Per maggiori informazioni potrete visitare il nostro sito internet: www.komsa.it

Bracci di aspirazione

Sistemi di aspirazione per gas di scarico veicoli

Elettroventilatori

Filtri

Filtri per impianti centralizzati

Filtri carrellati

Aspiratori indusatriali ad alta pressione

Arrotolatori per tubi e cavi

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