

Depth Filter Modules for Critical Process Fluids

Description

DEPTH-CLEAR S Series depth filter modules, constructed of specially formulated cellulose media and inorganic filter aids, provide reliable particle retention and enhanced throughput for superior performance in critical applications. The filter media utilize mechanical and electrokinetic adsorptive capture mechanisms to remove particles, microorganisms, colloids and pyrogen from critical process streams. The module format allows the filtration process to occur within a totally enclosed environment. This eliminates the potential for atmospheric contamination and product loss through leakage.

The DEPTH-CLEAR proprietary formulation process produces filter media with a highly effective filtration area that provides superior particle retention, high contaminant holding capacity, and long on-stream filter life. Manufacturing by means of an advanced, highly automated production process results in very consistent product quality and filtration performance. Each grade is formulated to optimize the retention and flow characteristics, allowing a wide selection of choices to meet an application's filtration requirements.



Benefits

- High surface area filter modules provide superior filtration performance and long on-stream life cycles.
- The proprietary formulation process results in depth media with exceptional particle retention via mechanical and electrokinetic capture.
- The advanced manufacturing process control results in very uniform filtration media and consistent lot-to-lot performance.
- Filter modules are easy to handle and install allowing for quick and easy change-outs.
- Very high surface area per module results in small space requirements for filter housings.
- All materials conform to FDA guidelines regarding material contact in food and beverage processing.
- Non-toxic, meeting the requirements of USP-XXIII, Class VI Biological tests for Plastics.
- Special formulations available for high temperature applications.

Applications

- Beer
- Wine
- Juices, Cider
- Brines, Broths, Edible Oil
- High Fructose Corn Syrup
- Inks and Dyes
- Chemicals
- Resins
- Inks
- Varnishes
- Fragrances

Materials of Construction

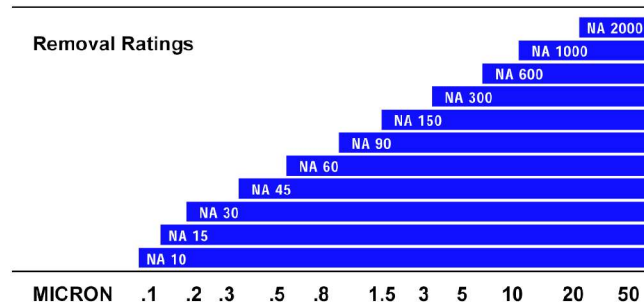
Media	Cellulose Fibers with Inorganic Filter Aids
End Caps	Polypropylene
Cartridge Straps	Stainless Steel
Gaskets/O-Rings	Ethylene Propylene, Silicone, Neoprene, Nitrile, Viton®, Teflon®

Dimensions (nominal)

Grade	Dimensions NAXXXC9-XX	NAXXXC16-XX	NAXXXD14-XX
DIAMETER			
inches	11 1/8	11 1/8	16 3/4
cm	28.3	28.3	42.5
HEIGHT			
inches	7 11/16	10 7/8	10 7/8
cm	19.5	27.6	27.6
FILTER AREA			
ft ²	11	19	38
m ²	1.0	1.8	3.5
NUM. OF CELLS	9	16	14

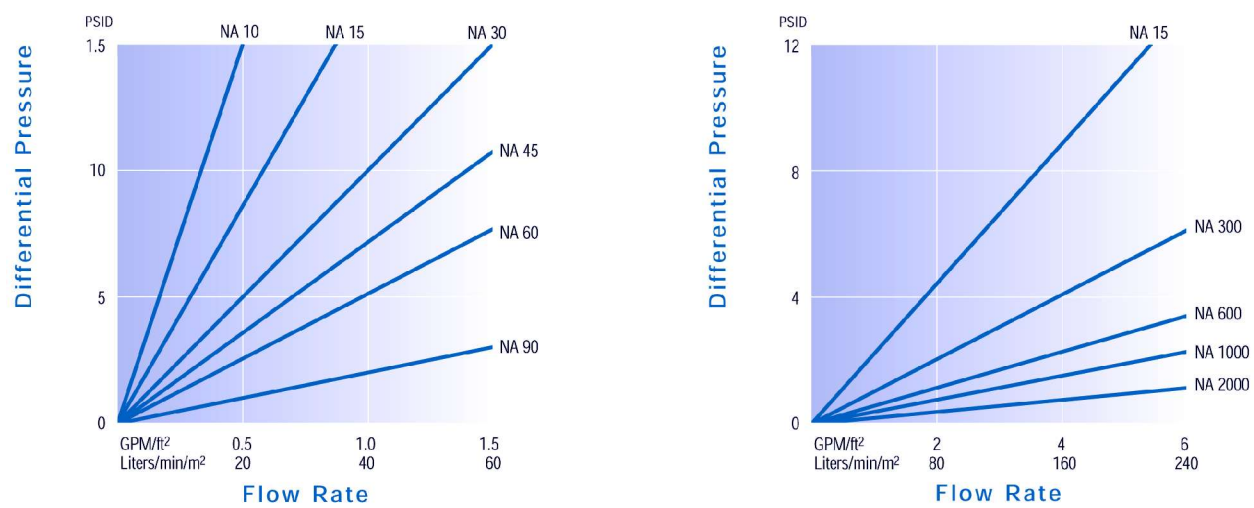
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Performance Specifications



Differential Pressure to 35 psid (2.5 bar) @ 140° F (60° C)
Max. Operating Temp. R Formulation: 140° F (60° C)
 K Formulation: 185° F (85° C)
Recom. Flow Rate 0.5 to 1 GPM/1ft²
 20 to 40 LPM/1m²
FDA Conformity All materials conform to FDA standards regarding material contact during food and beverage processing.
Toxicity DEPTH-CLEAR Series filter components comply with USP XXII standards for Class VI-121 plastics.

Flow Rates vs Differential Pressure



The above graphs indicate pressure drop versus flow rate of the various grades of Depth-Clear filter media in water. Adjustments may be required for other fluids. Please check with your Purolator representative for assistance in sizing.

Ordering Information

Media Type	Grade Designation	Formulation	Series	Handles	# of Cells	Gasket Material
NA	10	R	S	05	C9	-01
Non-Asbestos	10, 15, 30, 45, 60, 90, 150, 300, 600, 1000, 2000	R < 140° F K < 185° F	S = Standard	05 = Handles No Symbol = No Handles	C9 C16 D14	EPR -01 Neoprene -02 Silicone -03 Nitrile -04 Viton -08 Teflon -09