



DEPTH-CLEAR™ S Series

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 – meets the requirements of USP-XXIII, Class VI Biological tests for Plastics.
- Special formulations available for high temperature applications.

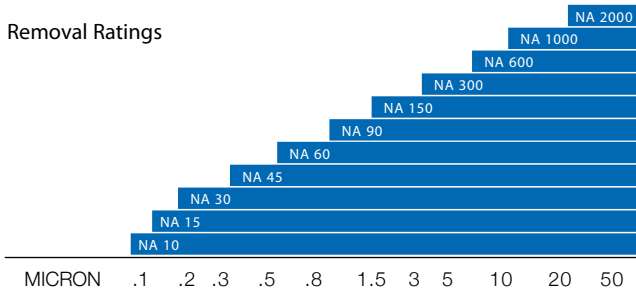
Applications

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



Performance Specifications

Removal Ratings



Differential Pressure to 35 psid (2.5 bar) @ 140° F (60° C)

Maximum Operating Temperature R Formulation: 140° F (60° C)

K Formulation: 185° F (85° C)

Recommended 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.

Materials of Construction

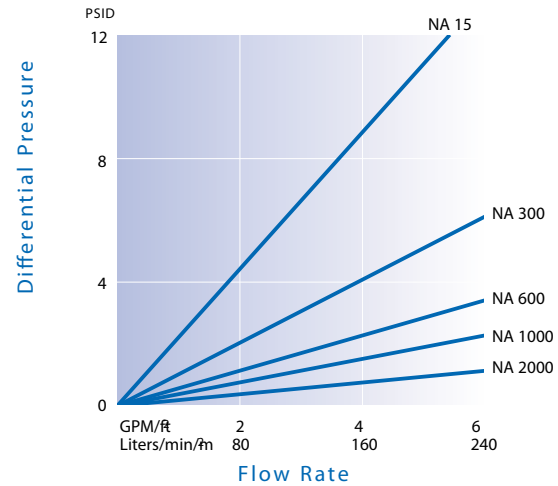
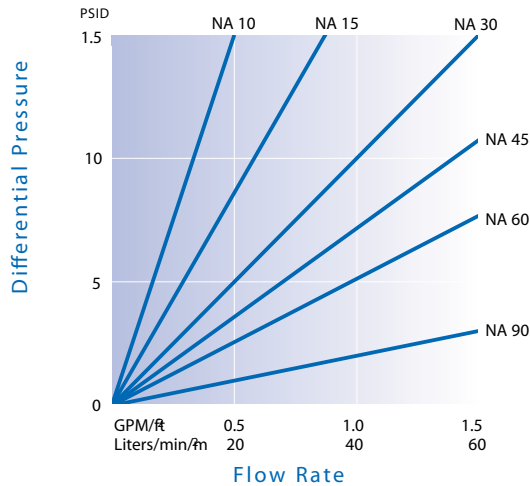
| | |
|------------------|--|
| Media | Cellulose Fibers with Inorganic Filter Aids |
| End Caps | Polypropylene |
| Cartridge Straps | Stainless Steel |
| Gaskets/O-Rings | Ethylene Propylene, Silicone, Neoprene, Nitrile, Viton®, Teflon® |

Dimensions (nominal)

| Grade Dimensions | NAXXXXC9-XX | NAXXXXC16-XX | NAXXXXD14-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 |
| # CELLS | 9 | 16 | 14 |

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Flow Rate vs Differential Pressure



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

Cartridge 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 |

