

DEPTH-CLEAR™ SA & U Series

Depth Filter Modules for Critical Hydraulic Fluids



Description

DEPTH-CLEAR utility grade filter modules are designed to meet the critical needs of the power distribution and generation industries in the reconditioning of dielectric oil used in transformers and circuit breakers. DEPTH-CLEAR media is formulated from specially selected cellulose fibers and inorganic filter aids. The cellulose fibers are highly refined in the manufacturing process to provide increased surface area, resulting in a filter with increased filtration efficiency and greater contaminant holding capacity. Two different series and three different media grades are available.

The DEPTH-CLEAR U Series is designed for the removal of carbon particles and low levels of moisture that result from the break down of dielectric oil. Removal of these contaminants increases the dielectric strength and the service life of the oil.

DEPTH-CLEAR U Series is available in three different grades, NA300, NA600 and NA1000. The NA300 is designed to remove particles above 3.0 micron and offers the highest filtration efficiency. The NA300 is commonly used to remove the finely divided carbon particles found in circuit breakers. The more open NA600 and NA1000 are used on heat-degraded oils found in transformers. The NA1000 is the most open of the utility series and provides higher flow rates and lower pressure drops.

The SA Series is designed for the removal of both water and carbon particles. SA Series modules incorporate a layer of water removal media located between an upstream and downstream layer of U Series media. The module is designed to withstand a strong pressure increase when the media is saturated with water. SA Series DEPTH-CLEAR is available with the NA300, NA600 or NA1000 grade of U Series DEPTH-CLEAR media. All SA Series modules are packaged with a desiccant to prevent the absorption of moisture from the air prior to use.

Benefits

- U Series modules provide reliable particle retention and long on-stream life cycles.
- The proprietary formulation process used to produce the SA Series results in depth media with exceptionally high moisture retention properties.
- 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.
- Filter modules are environmentally safe.
- All SA Series modules are packaged with a desiccant to prevent absorption of moisture prior to use.

Applications

- Transformer Oils
- Dielectric Oils
- Hydraulic Fluids
- Lubrication Oils
- Turbine Oils
- Machine Oil
- Tool Oil
- Quenching Oils
- Silicone Oils

Performance Specifications

Differential Pressure	to 35 psid (2.5 bar) @ 140° F (60° C)
Recommended Change-out Pressure	30 psid (2.04 bar)
Maximum Operating Temperature	R Grade: 140° F (60° C) K Grade: 185° F (85° C)
Recommended Flow Rate	0.5 to 1 GPM/1ft ² 20 to 40 LPM/1m ²

Materials of Construction

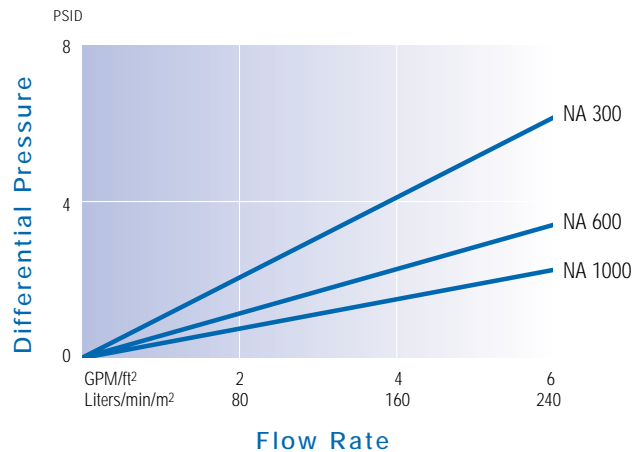
Media	Cellulose Fibers with Inorganic Filter Aids
End Caps	Polypropylene
Cartridge Straps	Stainless Steel
Gaskets/O-Rings	Ethylene Propylene, Silicone, Neoprene, Nitrile, Viton®, Teflon®

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 graph indicates 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.

Cartridge Ordering Information

Media Type	Grade Designation	Formulation	Series	Handles	Cartridge Style	Gasket Material
NA	300	R	SA	05	C9	-01
Non-Asbestos	300 600 1000	R Grade K Grade	U = Utility SA = Super Absorbent	05 = Handles No Symbol = No Handles	C9 C16 D14	EPR -01 Neoprene -02 Silicone -03 Nitrile -04 Viton -08 Teflon -09

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