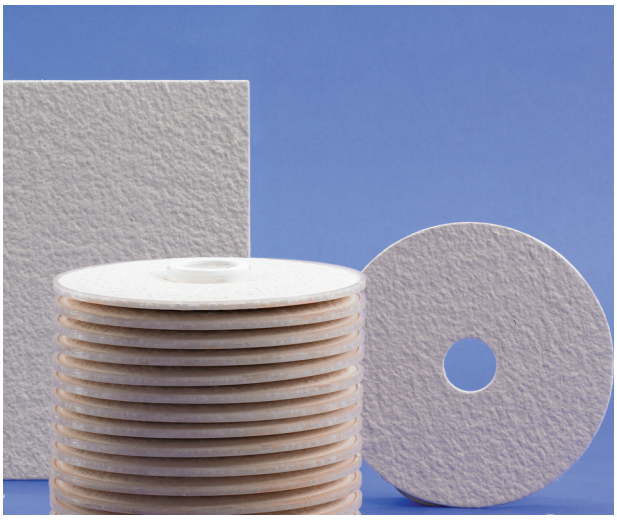
Depth-Clear™ H Series

High Strength Lenticular Cartridges and Filter Sheets for Demanding Applications



Description

Depth-Clear™ H Series depth filter sheets and lenticular cartridges are constructed of specially formulated cellulose, inorganic filter aids, and processed in a manner to impart a 150% increase in the strength of the media. Depth-Clear sheets and cartridges provide reliable particle retention and enhanced throughput for superior performance in critical applications. The filter medium utilizes mechanical and electrokinetic adsorptive capture mechanisms to remove particles, microorganisms, colloids, and other contaminants from process streams. The cartridge format allows the filtration process to occur within a totally enclosed environment to eliminate the potential for atmospheric contamination and product loss through leakage.

The Depth-Clear H Series 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. The media is manufactured by means of an advanced, highly automated production process that 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.

Features and Benefits

- Unique manufacturing process results in a media with greater than 150% more strength than standard media.
- Distinctive formulation produces depth media that provides superior filtration and long on-stream life cycles. Particles are captured through a combination of mechanical capture and electrokinetic adsorption.
- All raw materials are subject to stringent quality control procedures to ensure consistent and uniform product.
- Filter sheets are available in a wide range of shapes, sizes, and hole configurations for exact fit up and installation in most filter press equipment.
- High surface area lenticular filter cartridges provide superior filtration performance and long on-stream life cycles.
- Very broad selection of grades offered within each media series to meet the flow and retention requirements of an application. Special formulations and custom sheet sizes are available for high volume requirements.
- All materials conform to FDA guidelines regarding material contact in food and beverage processing.

Applications

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

Materials of Construction

Filter Media	Cellulose, DE, Binding Resin
Support	Polypropylene
Spacers, Endcaps	Polypropylene
O-Rings/Gaskets	EPR, Silicone, PTFE*
Internal Support Bands	Stainless Steel

*Other materials available

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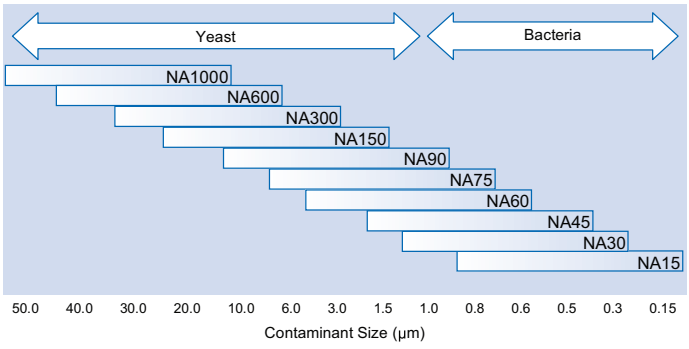
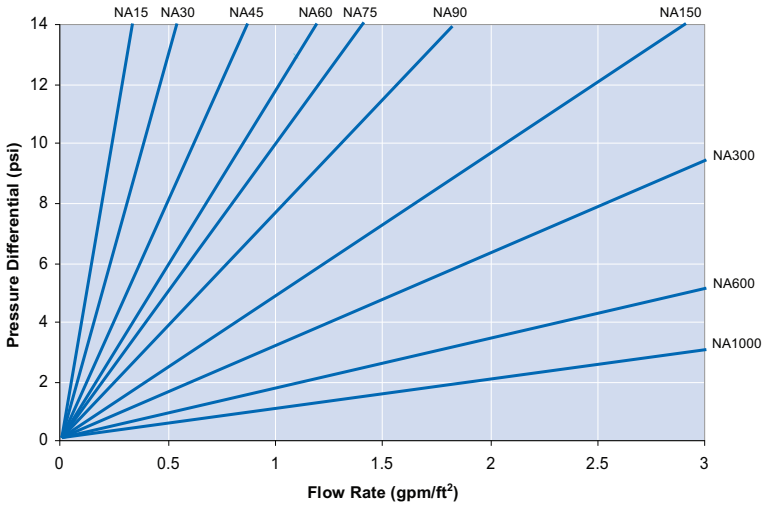
Liquid Removal Efficiency



Water Flow Rate



Nominal Dimensions

Cartridge Size		C9	C16	D14
Diameter	(in)	11 1/8	11 1/8	16 3/4
	(cm)	28.3	28.3	42.5
Height	(in)	7 11/16	10 7/8	10 7/8
	(cm)	19.5	27.6	27.5
Filter Area	(ft²)	11	19	38
	(m²)	1.0	1.8	3.5
# Cells		9	16	14

Sterilization

Autoclave	30 minutes	259 °F (126 °C)
In-line Steam	30 minutes	275 °F (135 °C)

Operating Conditions

Maximum Pressure	Maximum Temperature	Recommended Flow Rate
35 psid	140 °F (60 °C)	0.5 to 1 gpm/ft²
12 psid	176 °F (80 °C)	0.5 to 1 gpm/ft²

Cartridge Selection Guide

Media	Micron Rating	Series*	Handles	Diameter	Number of Cells	Gasket Material
NA	1000	KSH	05	C	9	01
NA = Depth-Clear	15 = 0.15 µm 30 = 0.3 µm 45 = 0.45 µm 60 = 0.6 µm 75 = 0.75 µm 90 = 0.9 µm 150 = 1.5 µm 300 = 3.0 µm 600 = 6.0 µm 1000 = 10.0 µm	KSH = High Strength Media	05 = Handles No Symbol = No Handles	C = 11 1/8 inch D = 16 3/4 inch	9 16 14 Other Quantites Available	01 = EPR 02 = Neoprene 03 = Silicone 04 = Nitrile 08 = Viton 09 = PTFE

*Please contact Purolator for flat sheet ordering codes.

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