

aspire[®] Depth-Clear II

Dual Layer Depth Filter Modules for Critical Process Fluids



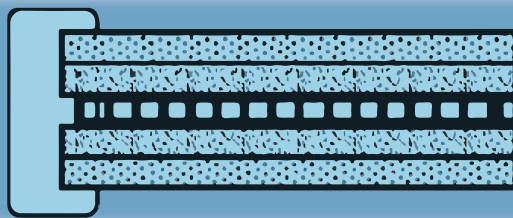
Depth-Clear II series lenticular modules incorporate two serial layers of our proprietary depth media creating a dual zone filter module. Dual layers increase throughput, reduce premature blinding, and increase operating efficiency. The serial layers stratify debris and improve throughput up to three times as much as a traditional single layer filter. The modules can be configured to the end user's specific application to optimize filter performance.

Depth-Clear II series filter media utilize mechanical and electrokinetic capture mechanisms to remove particles, microorganisms, colloids and pyrogen from the process streams. Depth-Clear II lenticular modules will fit into standard stack disc housings or can be incorporated into patented CLARCOR Industrial Air Depth-Clear D modules.

Features & Benefits

- Depth-Clear II combines two full-thickness filter media grades, creating a high surface area filter for superior filtration performance and long on-stream life cycles.
- Dual layer configuration, allowing for multiple upstream/downstream combinations to meet process requirements. Examples:
 1. Carbon grade over carbon grade for 2X contact surface area.
 2. Upstream cellulosic media grade layer over a downstream carbon filter media layer, which will protect the downstream carbon layer from contaminants.
- Potential to condense two stages of filtration into one.
- Up to three times the throughput of a standard cartridge.
- The proprietary formulation process results in depth media with exceptional particle retention via mechanical and electrokinetic capture.
- Filter modules are easy to handle and install allowing for quick and easy change-outs.
- Scalable from laboratory to full production.
- Very high surface area per module results in small space requirements for filter housing.
- Manufactured in an ISO 9001: 2008 Certified Quality System Environment.

Edge Seal

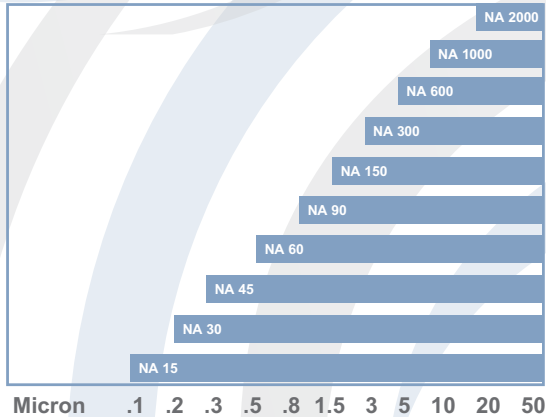


Upstream Filter Media Layer
 Downstream Filter Media Layer
 Media Separator
 Downstream Filter Media Layer
 Upstream Filter Media Layer

aspire® Depth-Clear II

Dual Layer Depth Filter Modules for Critical Process Fluids

Nominal Retention Ratings



Performance Specifications

Maximum Pressure	Maximum Temperature	Recommended Flow Rate
35 psid @ 140°F / 60°C	180°F / 82°C	0.5 to 1 gpm/ft ² 20.4 L/min/m ²

Nominal Dimensions

Cartridge Size	D9	D9B
Diameter in (cm)	16 3/4 (42.6)	16 3/4 (42.6)
Height in (cm)	10 7/8 (27.6)	13 (33)
Filter Area ft ² (m ²)	24.4 (2.3)	24.4 (2.3)
# Cells	9	9

Consult Factory if 12" Diameter is Required.

Materials of Construction

Media	Cellulose Fibers with Inorganic Filter Aids and Resin Binders
Flat Adapter	Polypropylene
Core Straps	Stainless Steel
O-Rings/Gaskets	EPR, Silicone, Neoprene, Nitrile, Viton®, Teflon®, Expanded Teflon®
Bayonet Adapter	Polypropylene
Support Material	Polypropylene

Sterilization

In-situ Steam: 20 min. @ 134°C (273°F)
 1 hr. @ 126°C (258°F)
 Autoclave: 30 min. @ 121°C (249°F)

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 plastics at 121° C.

Cartridge Selection Guide

Media	Micron Rating	Formulation	Series	Diameter/Cell	Gasket Material	Adapter
NA	1000/45*	K	P	D9	03	B
NA = Depth-Clear	15 = 0.15 µm	K Grade	P = Pharmaceutical	D9	01 = EPR	Bayonet = B
	30 = 0.3 µm		PLE = Pharmaceutical with low extractables		02 = Neoprene	Flat=Blank
	45 = 0.45 µm		S = Standard		03 = Silicone	
	60 = 0.6 µm		SH = High Strength**		04 = Nitrile	
	90 = 0.9 µm		C = Carbon		08 = Viton®	
	150 = 1.5 µm				09 = Teflon®	
	300 = 3.0 µm				15 = Expanded Teflon®	
	600 = 6.0 µm					
	1000 = 10.0 µm					
	2000 = 20.0 µm					
	1062 = Carbon					
	1064 = Carbon					

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*Consult Factory for Combinations

**Not available in 20 Oum

For more information, contact your aspire® representative at
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