

High Capacity Activated Carbon Filter Modules

Description

DEPTH-CLEAR C Series filter modules are comprised of highly porous activated carbon combined with cellulose fibers. The unique formulation process creates filter media with exceptionally high void volume allowing the module to be efficient in decolorizing fluids and absorbing a wide array of unwanted contaminants from process streams. The encapsulated design of DEPTH-CLEAR C Series modules eliminates many of the common process and safety issues associated with bulk activated carbon technology.

Each grade of DEPTH-CLEAR C media is formulated to optimize retention and flow properties to meet an application's requirements. Manufacturing by means of an advanced, highly automated production process results in very consistent product quality and filtration performance. The modules are available in configurations that provide up to 38 ft² of surface area per module.



Benefits

- The encapsulated design reduces operator health and safety issues by virtually eliminating carbon dust.
- The proprietary formulation process results in depth media with exceptionally high void volume for efficient decolorization and purification of process fluids. The module format offers significantly higher capacities than conventional carbon filter cartridges.
- Processing time is decreased when compared to bulk activated carbon systems.
- Filter modules are easy to handle and install. This allows for quick and easy change-outs.
- Dual media modules eliminate the filtration step required in bulk activated carbon systems.
- Filter modules are environmentally safe.

Applications

- Antibiotic Decolorizing
- Endotoxin Removal
- Decolorizing Silicone Oil
- Detergent Removal
- Decolorizing Spirits, Wine and Cider
- Decolorizing Fine Chemicals
- Blood Fractionation
- Decolorizing Perfumes
- Catalyst Removal

Performance Specifications

Differential Pressure	to 35 psid (2.5 bar) @ 140° F (60° C)
Max. Operating Temp.	140° F (60° C)
Recom. Flow Rate	0.5 to 1 GPM/1ft ² , 20 to 40 LPM/1m ²
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 V-121 plastics.

Materials of Construction

Media	Activated Carbon and Cellulose Fibers
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
<i>DIAMETER</i>			
inches	11 1/8	11 1/8	16 3/4
cm	28.3	28.3	42.5
<i>HEIGHT</i>			
inches	7 11/16	10 7/8	10 7/8
cm	19.5	27.6	27.6
<i>FILTER AREA</i>			
ft ²	11	19	38
m ²	1.0	1.8	3.5
NUM. OF CELLS	9	16	14

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Cartridge Ordering Information

Media Type	Grade Designation	Formulation	Series	Handles	# of Cells	Gasket Material
NA	1064	R	C	05	C9	-01
Non-Asbestos	1054, 1064	R Grade	C = Carbon	05 = Handles No Symbol = No Handles	C9 C16 D14	EPR -01 Neoprene -02 Silicone -03 Nitrile -04 Viton -08 Teflon -09