Activated Carbon Lenticular Filter

- Depth-Clear Single Layer
- Depth-Clear II Dual-Layer
- Available in 12 inch & 16 inch

Parker's activated carbon lenticular filters are comprised of highly porous activated carbon, cellulose fibers and a cationic resin available in single (Depth-Clear) and dual (Depth-Clear II) layers. The unique formulation process creates filter media with exceptionally high void volume allowing the filter to be an efficient absorber of color, hazes, proteins and bioburden. The resin bonded carbon cellulose matrix of Depth-Clear activated carbon media eliminates many of the common process and safety issues associated with bulk activated carbon.

Parker offers two grades of carbon, 1062 and 1064, to cover a broad range of applications. Each grade of activated carbon media is formulated to optimize retention and flow properties. The automated production process results in very consistent product quality and filtration performance. The filters are available in configurations that provide up to 38 ft^2 of surface area per module.

Features and Benefits

- The carbon integrated media design reduces operator health and safety issues by virtually eliminating carbon dust
- The proprietary formulation 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
- Lenticular filters are easy to handle and install which allows for quick and easy change-outs
- Available in single (Depth-Clear) and dual-layer (Depth-Clear II) format
- The dual-layer Depth-Clear II combines two full-thicknesses of carbon filter creating 2X contact surface area for superior filtration performance and long on-stream life cycles.
- Manufactured in an ISO 9001: 2008 Certified Quality System Environment

1062

Cartridge Size	Carbon g/m^2	Carbon content/module
12"	500g/m^2	900 Grams
16"	500g/m^2	1,750 Grams

1064

Cartridge Size	Carbon g/m^2	Carbon content/module
12"	650g/m^2	1,170 Grams
16"	650g/m^2	2,275 Grams

Applications

- Antibiotic Decolorizing
- Blood Fractionation
- Catalyst Removal
- Deodorization of Beverages & Fruit Juices
- Decolorizing Fine Chemicals
- Decolorizing Perfumes
- Decolorizing Spirits, Wine and Cider
- Decolorizing Silicone Oil
- Dechlorination of Water
- Detergent Removal
- Endotoxin Removal

Depth-Clear Activated Carbon Lenticular Filter

Specifications

Materials of Construction

Media:	Activated Carbon, Cellulose Fibers, and Resin Binders
Flat Adapter:	Polypropylene
Core Straps:	Stainless Steel
O-rings/Gaskets:	EPR, Silicone, Nitrile, Viton®, Teflon®, Expanded Teflon®
Bayonet Adapter:	Polypropylene
Support Material:	Polypropylene

Sterilization

Autoclave:	30 minutes @ 121°C (249°F)
Inline Steam:	20 minutes @ 131°C (270°F)
	1 hr. @126°C (258°F)

FDA Conformity

All materials conform to FDA standards regarding material contact during food and beverage processing.

Toxicity

Depth-Clear & Depth-Clear II filter media meets the requirements of USP Biological Test for Plastics, Class VI, and are considered non-cytotoxic per ISO 10993-5.

Operating Conditions

Maximum Pressure	Maximum Temperature	Recommended Flow Rate
35 psid @ 140°F / 60°C	180°F / 82°C	0.26 to 1 gpm/ft² 20-40 L/min/m²

Nominal Dimensions

Single Layer	Diameter in (cm)	Height in (cm)	Filter Area ft² (m²)	# Cells
C9	11 1/8 (28.3)	7 11/16 (19.5)	11 (1.0)	9
C16	11 1/8 (28.3)	10 7/8 (27.6)	19 (1.8)	16
D14	16 3/4 (42.6)	10 7/8 (27.6)	38 (3.5)	14
D14B	16 3/4 (42.6)	13 (33.0)	38 (3.5)	14
Dual Layer	**Diameter in (cm)**	**Height in (cm)**	**Filter Area ft² (m²)**	**# Cells**
C8	11 1/8 (28.3)	7 11/16 (19.5)	9.6 (0.9)	8
C13	11 1/8 (28.3)	10 7/8 (27.6)	15.6 (1.5)	13
D9	16 3/4 (42.6)	10 7/8 (27.6)	24.4 (2.3)	9
D9B	16 3/4 (42.6)	13 (33.0)	24.4 (2.3)	9

Carbon Differences

1062
Improve dark color reduction
Food Grade
Large Pore Structure
Metal ION Removal

1064
Improve color reduction in mid color Grades
Yellows to light browns
Medium pore structure
Validated carbon
Low pH
Acid washed (providing low acid soluble iron content)

Ordering Information

Single-Layer Lenticular Filter Selection Guide

NA | 1064 | K | C | C9 | - | 01 | B

Media	Grade Designation	Formulation	Series	Number of cells	Gasket Material	Adapter
Depth-Clear	1064 Carbon 1062 Carbon	K K Grade	C Carbon	C9 9 C16 16 D14 14 D14B 14	01 EPR 02 Neoprene 03 Silicone 04 Nitrile 08 Viton® 09 Teflon® 15 Expanded Teflon®	B Bayonet Flat Blank

Dual-Layer Lenticular Filter Selection Guide

NA | 1062 | / | 1064 | K | C | D9 | 08 | B

Media	Upstream Micron*	Downstream Micron*	Formulation	Series	Diameter/Cells	Gasket Material	Adapter
Depth-Clear II	1062 Carbon 1064 Carbon	1062 Carbon 1064 Carbon	K K Grade	C Carbon	C8 8 C13 13 D9 9 D9B 9	01 EPR 02 Neoprene 03 Silicone 04 Nitrile 08 Viton® 09 Teflon® 15 Expanded Teflon®	B Bayonet Flat Blank

⚠ **WARNING:** This product can expose you to chemicals including silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

toll free +1 877 784 2234 | +1 805 604 3400 | bioscience.na@parker.com | www.parker.com/bioscience