



Graver Technologies

Filtration | Separation | Purification

# CarbTEC™ Extruded Carbon Block Filter Series

## Featuring KX Matrikx® Technology

### Extruded Activated Carbon Block Filter

Patented extrusion process produces an activated carbon filter with superior ability to adsorb chlorine, taste, odor, organics, and color components

### Filter Features – Benefits

- High adsorptive capacity and efficiency
- More carbon at lower pressure drop than granular carbon
- Outer melt blown wrap provides particulate removal capability
- Minimal release of carbon fines
- No channeling, fluidizing or bypass
- Performance tested and verified by independent laboratory
- Manufactured using FDA listed materials of construction
- Cyst+ is a cyst reduction filter tested in accordance with ANSI/NSF Standard 53\*
- Coco+ features coconut shell carbon for improved water taste
- NSF Components (Standard 42)

### Filter Specifications

End Caps:	Polypropylene
End Caps Adhesive:	Low Density Polyethylene
End Configuration:	Double Open End
Gaskets:	Santoprene
Binder:	Polyethylene
Outer Wrap:	Melt Blown Polypropylene
Netting:	Polypropylene

### Operating Parameters

Maximum Operating Temperature – 125 F (52 C)
Maximum Differential Pressure – 100 psid (6.9 bar)
Maximum Operating Pressure – 250 psig (17.2 bar)
Collapse Pressure – 200 psid (13.8 bar)
Steam/Autoclave – Do not steam or autoclave CarbTEC filters
Flush – Filters should be flushed for a minimum of 5 minutes prior to use

\*Performance Tested and Verified by Independent Laboratory Testing.



### Applications

- Drinking Water
- Bottled Water
- Soft Drinks
- Cyst Reduction
- Color removal
- Flavor removal
- Chlorine Removal



## Filter Specifications

	CarbTEC Series Filters		
	Cyst+	Coco+	Cot+
Nominal Filtration Rating	0.5 micron	2 micron	5 micron
Type Carbon	Bituminous (Coal)	Coconut Shell	Bituminous (Coal)
Sizes Available			
Overall Diameter	2.7" (6.9 cm)	2.7 (6.9 cm)	2.7 (6.9 cm)
Lengths	9.75, 20" (24.8, 50.8 cm)	9.75, 20" (24.8, 50.8 cm)	9.75, 20" (24.8, 50.8 cm)
Cyst Reduction Capability	yes*	no	no

\*Performance Tested and Verified by Independent Laboratory Testing.

## Ordering Information and Technical Data

Description	Block Dimensions	Chlorine, Taste, Odor Reduction @ Flow	Initial Delta P @ Flow
<b>Cyst+</b>			
Cyst 2.5–9.75	2.5 x 9.75"	10,000 gal @ 2.5 GPM	8 psid @ 1 GPM
Cyst 2.5–20	2.5 x 20"	20,000 gal @ 5 GPM	8 psid @ 2 GPM
<b>Coco+</b>			
Coco 2.5–9.75	2.5 x 9.75"	6,000 gal @ 1 GPM	2.5 psid @ 1 GPM
Coco 2.5–20	2.5 x 20"	15,000 gal @ 2.3 GPM	2.5 psid @ 2 GPM
<b>Cot+</b>			
Cot 2.5–9.75	2.5 x 9.75"	6,000 gal @ 1 GPM	2 psid @ 1 GPM
Cot 2.5–20	2.5 x 20"	12,000 gal @ 2 GPM	2 psid @ 2 GPM

### Notes:

1. Projected chlorine, taste and odor reduction capacity when tested in accordance with NSF/ANSI Standard 42 protocol.
2. Nominal particulate rating is for >85% of a given size as determined from single pass particle counting results.
3. Performance of a given CarbTEC extruded carbon filter varies in direct proportion to the total weight of carbon in the filter. For example, a 2.5" OD x 20" long CarbTEC filter contains approximately two times as much activated carbon as a 2.5" OD x 9.75" long filter, and will therefore have two times the rated chlorine, taste and odor capacity when operated at two times the rated flow of the smaller cartridge. Hence, rated flow rate is based on maintaining identical contact/residence time for all filters.
4. Use CarbTEC carbon filters only with microbiologically safe and adequately disinfected water.

### For more information

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