

CARBON BLOCK FILTERS (UCB SERIES)

UCB Series carbon blocks are NSF/ANSI 42 certified and highly effective in reducing a wide range of contaminants along with unpleasant tastes and odors, resulting in water that is safe and great tasting. UCB carbon blocks feature three primary product lines (blue-capped CTO, gray-capped CTO Pb+ and black-capped CTO PLUS+) specifically designed for targeted contaminant reduction requirements based on customer needs. Applications include industrial, commercial, residential and food service.

Empowering the natural adsorption properties of coconut shell carbon, UFI carbon blocks are an ideal solution for the reduction of volatile organic chemicals (VOCs) and other chemicals while providing the highest level of chlorine (CTO), lead (Pb) and PFAS (PFOA/PFOS) reduction. Organic compounds are adsorbed into the inner pores. UCB carbon blocks allow for increased surface area and porosity, which significantly increases the filters' capacity to absorb small molecules, reduce chemicals, and maintain low pressure drop at the highest service flow rates.



★ OVERVIEW

- **Construction:**
 - Activated Coconut-Based Carbon
- **Micron Ratings:**
 - CTO: 10 microns
 - CTO Pb+ and CTO PLUS+: 0.5 microns

★ FEATURES

- Taste and odor improvement = great tasting
- Reduces sand, rust and sediment
- Excellent chemical contaminant reduction
- High dirt-holding capacity
- High adsorptive capacity and efficiency
- Certified and NSF/ANSI 372 lead-free certified by the Water Quality Association (WQA)

★ SPECIFICATIONS

	CTO	CTO Pb+	CTO PLUS+
Chlorine Reduction	★	★	★
Lead Reduction		★	★
Cyst Reduction via Mechanical Filtration		★	★
PFAS (PFOA/PFOS) Reduction			★
VOC Reduction			★

NAME	PART NUMBER	OUTSIDE Ø	LENGTH
CTO	UCB-CTO-SL-10	2.5"	10"
	UCB-CTO-SL-20	2.5"	20"
	UCB-CTO-BB-10	4.5"	10"
	UCB-CTO-BB-20	4.5"	20"
CTO Pb+	UCB-CTOPb-SL-10	2.5"	10"
	UCB-CTOPb-SL-20	2.5"	20"
	UCB-CTOPb-BB-10	4.5"	10"
	UCB-CTOPb-BB-20	4.5"	20"
CTO PLUS+	UCB-CTOPLUS-SL-10	2.5"	10"
	UCB-CTOPLUS-SL-20	2.5"	20"
	UCB-CTOPLUS-BB-10	4.5"	10"
	UCB-CTOPLUS-BB-20	4.5"	20"

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SPECIFICATIONS AND PERFORMANCE DATA SHEET

Part Numbers	Size	Chlorine Reduction Capacity*	PFAS/PFOS Reduction Capacity*	VOC Reduction Capacity*	Lead Reduction Capacity*	Cyst†	Pressure Drop*
UCB-CTO-SL-10	2.5" OD x 10" L	> 8,000 gallons @ 1 gpm	N/A	N/A	N/A	No	3 psi @ 1 gpm
UCB-CTO-SL-20	2.5" OD x 20" L	> 18,000 gallons @ 2 gpm	N/A	N/A	N/A	No	4 psi @ 2 gpm
UCB-CTO-BB-10	4.5" OD x 10" L	> 12,000 gallons @ 3 gpm	N/A	N/A	N/A	No	3 psi @ 3 gpm
UCB-CTO-BB-20	4.5" OD x 20" L	> 27,000 gallons @ 6 gpm	N/A	N/A	N/A	No	4 psi @ 6 gpm
UCB-CTOPb-SL-10	2.5" OD x 10" L	> 23,000 gallons @ 1 gpm	N/A	N/A	> 3,900 gallons @ 0.5 gpm	Yes	11 psi @ 1 gpm
UCB-CTOPb-SL-20	2.5" OD x 20" L	> 50,000 gallons @ 2 gpm	N/A	N/A	> 8,200 gallons @ 1 gpm	Yes	12 psi @ 2 gpm
UCB-CTOPb-BB-10	4.5" OD x 10" L	> 61,000 gallons @ 3 gpm	N/A	N/A	> 10,400 gallons @ 1.5 gpm	Yes	14 psi @ 3 gpm
UCB-CTOPb-BB-20	4.5" OD x 20" L	> 134,000 gallons @ 6 gpm	N/A	N/A	> 22,500 gallons @ 3 gpm	Yes	14 psi @ 6 gpm
UCB-CTOPLUS-SL-10	2.5" OD x 10" L	> 23,000 gallons @ 1 gpm	> 3,200 gallons @ 0.5 gpm	> 600 gallons @ 0.5 gpm	> 3,900 gallons @ 0.5 gpm	Yes	11 psi @ 1 gpm
UCB-CTOPLUS-SL-20	2.5" OD x 20" L	> 50,000 gallons @ 2 gpm	> 6,800 gallons @ 1 gpm	> 1,300 gallons @ 1 gpm	> 8,200 gallons @ 1 gpm	Yes	12 psi @ 2 gpm
UCB-CTOPLUS-BB-10	4.5" OD x 10" L	> 61,000 gallons @ 3 gpm	> 8,100 gallons @ 1.5 gpm	> 1,600 gallons @ 1.5 gpm	> 10,400 gallons @ 1.5 gpm	Yes	14 psi @ 3 gpm
UCB-CTOPLUS-BB-20	4.5" OD x 20" L	> 134,000 gallons @ 6 gpm	> 18,100 gallons @ 3 gpm	> 3,500 gallons @ 3 gpm	> 22,500 gallons @ 3 gpm	Yes	14 psi @ 6 gpm

PERFORMANCE

Performance claims are based on a complete system, including a filter, housing and connection to a pressurized water source. This filter must be placed in an appropriate system and operated according to the system's specifications in order to deliver the claimed performance. It is essential to follow operational, maintenance, and filter replacement requirements, as directed for each application, for this filter and system to perform correctly. Read the Manufacturer's Performance Data Sheet accompanying the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.

- Performance of a given UCB carbon filter varies in direct proportion to the total weight of carbon in each filter.
- Projected chlorine taste and odor reduction capacity is tested in accordance with NSF/ANSI Standard 42 protocol.
- Nominal particulate rating is for 85% of a given size as determined from single-pass particle-counting results.*
- Absolute particulate rating is for >99.9% of particles of a given size as determined from single-pass particle-counting results.**
- Actual results obtained will vary with various combinations of organic contaminants, changes in pH or other conditions encountered in actual use.
- All information presented here is based on data believed to be reliable. It is offered for evaluation and verification, but is not to be considered a warranty of any kind.
- UCB filters are designed to fit most standard household and commercial or industrial housings.
- Contact United Filters International to check filter housing compatibility.
- After installation, follow the instructions on the label for flushing the carbon block prior to use.

WARRANTY

Limited Liability: United Filters International makes no warranties of any kind, expressed or implied, statutory or otherwise, and expressly disclaims all warranties of every kind concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product should be capable of performing as described in this product's data sheet. United Filters International's obligation shall be limited solely to the refund of the purchase price or replacement of the product proven defective, in United Filters International's sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

* Based on manufacturer's internal testing. Performance claims are based on independent laboratory and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and application. Results may vary. Micron ratings are based on > 85% removal of the given particle size. Estimated capacity > 90% reduction in chlorine at 2 ppm, > 98.7% reduction in PFAS/PFOS at 1,500 ppt, > 95% reduction of VOC using chloroform as a surrogate and > 96.7% reduction of 8.5 pH lead.

^ Nominal Filter Rating: "Filter rating" indicating the approximate size particle, the majority of which will not pass through the filter. It is generally interpreted as meaning that 85% of the particles of the size equal to the nominal micron rating will be retained by the filter. (WQA Glossary of Terms, Third Edition, 3-97).

** Absolute Filter Rating: "Filter rating" meaning that 99.9% (or essentially all) of the particles larger than a specific micron rating will be trapped on or within the filter. (WQA Glossary of Terms, Third Edition, 3-97).

IMPORTANT

DO NOT USE extra lubricants, unapproved sealants and/or tools to tighten hand-tighten only parts. Use of tools other than hand-tighten only parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested.

Minimum Operating Temperature: 40 °F / 4 °C
Maximum Operating Temperature: 125 °F / 52 °C
Minimum Operating Pressure: 20 psig / 1.38 bar
Maximum Operating Pressure: 250 psig / 17 bar
Maximum Differential Pressure: 100 psid/6.895 bar
Collapse Pressure: 200 psig/13.79 bar

Filter Replacement Operating Instructions: New cartridges must be flushed to drain for a minimum of 20 minutes at full service flow rate prior to use. System, installation, and cartridge disposal to comply with federal, state, and local laws and regulations. Do not use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system. Manufactured from NSF/ANSI standard 61 raw materials. Certified to NSF/ANSI 42 for material safety.

- Water conditions outside of the above specified limits may lead to a shortened filtration life. Potential void of warranty if optimum working conditions and use of proper pre-filtration are not adhered to.
- Cartridges may contain a very small amount of fines. After installation, flush the cartridges to drain for at least 20 minutes at full service flow rate prior to use.**
- Micron ratings based on 85% or greater removal of a given particle size. Flush new cartridges until water runs clear prior to use.
- Cartridge life is based on gallon usage and water profile. It will vary by individual site based on water quality and usage.
- Information is believed to be reliable and is offered in good faith with no warranties or implied warranty or fitness for a particular use. Customer is responsible for ensuring compliance with applicable laws and regulations and determining whether use conditions and information in this document are appropriate for specific applications.



The filter cartridge is tested and certified by WQA against NSF/ANSI Standard 42 for material safety requirements only, and certified to NSF/ANSI 372 lead-free requirements.