CESI SAFEWATER

Water filtration innovation

CTO®

Carbon Block Filters for Chlorine Taste and Odor reduction*

Features & Benefits

Matrikx® CTO® carbon block filters are now powered by **GreenBlock®** technology. They feature:

- 5 micron nominal filtration.
- Exceptionally low pressure drop.
- High dirt holding capacity.
- Excellent chemical contaminant reduction.
- High Adsorptive Capacity and Efficiency.
- NSF and WQA certification for Material Safety.
- California Prop. 65 compliance.

*Not performance tested or certified by NSF or WQA

Green Advantage

KX Technologies® and **Filtrex Technologies®**, both Marmon Water/Berkshire Hathaway companies, have teamed up to combine the very best of their **Matrikx®** and **GreenBlock®** carbon block lines, into a single world class product offering. The new and improved product line is the result of decades of experience in R&D, design, formulation, and manufacture of high-performance carbon block filters.

Matrikx® CTO® filters, powered by **GreenBlock®**, are made from 100% coconut shell carbon, a renewable, and ecologically sustainable material. The carbon is processed into blocks using a unique binder system and proprietary manufacturing techniques to produce filters with a greater number of micro-pores and available carbon surface area, which display superior adsorption capacity and kinetic dynamics.

The companies are committed to Research and Development to advance filtration technology in an ecologically sound way.

Green Quality

Matrikx® CTO®, powered by GreenBlock®, carbon block filters are:

- Manufactured in ISO 9001 and 14001 certified facilities.
- Manufactured from Global Ecocarb's NSF standard 61 certified ECOC GreenCarbon® Coconut Shell Carbon.
- NSF Standard 42 certified (material safety).
- Performance validated by independent laboratories including WQA.
- Quality and performance monitored in extensive in-house laboratories.

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Standard Products

Fully finished **Matrikx® CTO®,** powered by **GreenBlock®,** carbon block filter cartridges are compatible with industry standard 10 inch and 20 inch open sump housings:

Part Number	OD x Length	Micron Rating (nominal)*	Chlorine Taste and Odour Reduction Capacity*	Pressure Drop Spec*
32-250-10-GREEN	2 ¾ " x 9 ¾ " (70mm x 248mm)	5 microns	> 8,000 gallons @ 1gpm > 30,000 litres @ 3.8 l/min	1.0 psid @ 1 gpm
32-250-20-GREEN	2 ¾ " x 20 " (70mm x 508mm)	5 microns	> 16,000 gallons @ 2gpm > 60,000 litres @ 7.6 l/min	2.5 psid @ 2gpm
32-450-10-GREEN	4 ½ " x 9 ¾ " (114mm x 248mm)	5 microns	> 16,000 gallons @ 3gpm > 60,000 litres @ 11.4 l/min	5.0 psid @ 3 gpm
32-450-20-GREEN	4 ½ " x 20 " (114mm x 508mm)	5 microns	> 34,000 gallons @ 7gpm > 129,000 litres @ 26.6 l/min	8.0 psid @ 7 gpm

*Not performance tested or certified by NSF or WQA. 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 is based on >90% reduction of 2ppm of free chlorine.

Notes

Important Notice: 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.

1. Performance of a given **Matrikx®** carbon filter varies in direct proportion to the total weight of carbon in each filter. 2. Projected chlorine taste and odor reduction capacity when tested in accordance with NSF/ANSI Standard 42 protocol. 3. Nominal particulate rating is for >85% of a given size as determined from single-pass particle counting results.* 4. Absolute particulate rating is for >99.9% of particles of a given size as determined from single-pass particle counting results.** 5. Actual results obtained will vary with various combinations of organic contaminants, changes in pH or other conditions encountered in actual use. 6. 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. 7. **Matrikx® CTO®** filters are designed to fit most standard household and commercial or industrial housings. 8. Contact Filtrex Technologies Pvt. Ltd or KX Technologies LLC to check filter housing compatibility. 9. This cartridge must be placed in an appropriate housing and flushed for a minimum of 20 minutes prior to use.

* 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).

NSF COMPONENT

The filter cartridge is tested and certified by NSF International against NSF/ANSI Standard 42 for materials requirements only.

COMPONENT

The filter cartridge is tested and certified by WQA against NSF/ANSI Standard 42 for materials requirements only.

WARNINGS

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

Matrikx®, powered by GreenBlock®, CTO® filters are not to be autoclaved or steam-sterilized. Use Matrikx®, powered by GreenBlock®, CTO® carbon filters only with microbiologically safe and adequately disinfected water.

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