



**M A T R I K X**<sup>®</sup>  
Extruded Carbon

**CTO<sup>®</sup>/2**



## Chlorine Taste & Odor Reduction Filter

### FEATURES & BENEFITS

- 5 µm Nominal Filtration\*
- High Adsorptive Capacity and Efficiency\*
- Efficient Sediment Filter\*
- Competitively Priced vs. GAC filters



### TYPICAL USAGES

MATRIKX + CTO<sup>®</sup>/2 filters are the most widely used carbon block devices in the world and provide previously unattainable performance at the lowest price point. MATRIKX + CTO<sup>®</sup>/2 filters simultaneously remove chlorine taste and odor and organic chemicals that contribute to taste and odor while providing the particulate filtration and dirt-holding capacity of an efficient 5 µm nominal sediment filter. These filters are optimized for applications where they perform the role of both a sediment and activated carbon filter.

### TECHNICAL SPECIFICATIONS AND ORDER INFORMATION

| Part No.       | O.D. x Length (nominal)             | Weight               | Chlorine Taste & Odor Reduction Capacity @ Flow* | Nominal µm Rating* | Initial ΔP @ Flow*                        |
|----------------|-------------------------------------|----------------------|--|--------------------|---|
| 32-250-125-975 | 2.50" x 9.75"<br>63.5 mm x 247.7 mm | 0.75 lbs.<br>0.34 kg | >6,000 gal. @ 1.0 GPM<br>>22,000 L @ 3.8 LPM     | 5 µm               | 2.0 psid @ 1.0 GPM<br>0.14 bar @ 3.8 LPM  |
| 32-250-125-20  | 2.50" x 20"<br>63.5 mm x 508 mm     | 1.75 lbs.<br>0.79 kg | >12,000 gal. @ 2.0 GPM<br>>45,000 L @ 7.6 LPM    | 5 µm               | 2.0 psid @ 2.0 GPM<br>0.14 bar @ 7.6 LPM  |
| 32-425-125-975 | 4.25" x 9.75"<br>108 mm x 247.7 mm  | 2.60 lbs.<br>1.18 kg | >12,000 gal. @ 3.0 GPM<br>>45,000 L @ 11.4 LPM   | 5 µm               | 4.0 psid @ 3.5 GPM<br>0.28 bar @ 13.2 LPM |
| 32-425-125-20  | 4.25" x 20"<br>108 mm x 508 mm      | 5.60 lbs.<br>2.54 kg | >26,000 gal. @ 7.0 GPM<br>>98,000 L @ 26.5 LPM   | 5 µm               | 4.5 psid @ 7.0 GPM<br>0.31 bar @ 26.5 LPM |

\*Based on Manufacturer's Internal Testing

KX's proprietary extrusion process allows the production of a carbon block with more carbon, but a lower pressure drop. This enables a MATRIKX + CTO<sup>®</sup>/2 filter to deliver extended life while removing sediment, chlorine taste and odor and organic contaminants from water, aqueous solutions or suspensions. The MATRIKX + CTO<sup>®</sup>/2 is also widely used in filtering organic solvents. The MATRIKX + CTO<sup>®</sup>/2 is ideal for use in residential and commercial water purification systems, food service, pre- and post-RO systems.

The MATRIKX + CTO<sup>®</sup>/2 is manufactured from high purity acid-washed activated carbon. Its dirt-holding capacity and the absence of carbon fines makes the MATRIKX + CTO<sup>®</sup>/2 the filter of choice. A superior carbon block, MATRIKX + CTO<sup>®</sup>/2 combines both high performance and integrity with an exceptional cost-to-performance value. As a result, MATRIKX + CTO<sup>®</sup>/2 virtually renders GAC filters obsolete by comparison.





# CTO<sup>®</sup>/2

## ORDER INFORMATION

Special order filters are available in varying sizes with lengths from 1" to 60". Standard filters are finished with a prefiltration medium. A protective polypropylene netting is applied to the exterior of the cartridge. Polypropylene end caps with compression gaskets fit most standard housings. Inquire concerning alternative filter finishing options, including alternative end cap and housing interface styles, a wide range of non-standard extruded filter sizes, and non-standard prefiltration systems.

## EXTRUDED CARBON = EXCEPTIONAL VALUE

MATRIKX + CTO<sup>®</sup>/2 filters consist of activated carbon particles fused into a uniform block with enhanced adsorptive capacity and efficiency. MATRIKX + CTO<sup>®</sup>/2 filters flow in a radial (outside-to-inside) direction, providing increased dirt-holding capacity and low pressure drop. Unlike granular activated carbon (GAC) filters, MATRIKX + CTO<sup>®</sup>/2 cartridges will not channel or bypass due to the extreme uniformity of their extruded activated carbon core. Service life of the MATRIKX + CTO<sup>®</sup>/2 filter is greatly extended by a prefiltration medium.

- No channeling
- No fluidizing
- No bypassing
- Lowest extractables, pure materials of construction
- Maximum service life and resistance to fouling
- Manufactured using FDA-compliant materials

**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.

## NOTES

1. Performance of a given MATRIKX<sup>®</sup> extruded 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 (5 µm) is for >85% of a given size as determined from single-pass particle counting results.\*
4. Absolute particulate rating (10 µm) 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<sup>®</sup>/2 filters are designed to fit most standard household and commercial or industrial housings.
8. Contact KX Technologies LLC to check filter housing compatibility.
9. This cartridge must be placed in an appropriate housing and flushed for a minimum of 5 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).

## WARNINGS

Maximum Operating Temperature: 125°F/51.67°C    Maximum Operating Pressure: 250 psig/17.24 bar    Maximum Differential Pressure: 100 psid/6.895 bar    Collapse Pressure: 200 psid/13.79 bar

MATRIKX + CTO<sup>®</sup>/2 filters are not to be autoclaved or steam-sterilized. Use MATRIKX + CTO<sup>®</sup>/2 carbon filters only with microbiologically safe and adequately disinfected water.

### LIMITED LIABILITY

KX Technologies LLC 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. KX Technologies LLC's obligation shall be limited solely to the refund of the purchase price or replacement of the product proven defective, in KX Technologies LLC'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.

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This product is covered by one or more of the following United States Patent Nos. 5,019,311; 5,147,722; 5,189,092; 5,249,948; 5,331,037; 5,922,803; 5,946,342; 6,061,384; 6,395,190; applicable US patent applications; foreign patents and applicable foreign patent applications.

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