



**MATRIKX®**  
Extruded Carbon

+1



# High Capacity Chemical, Chlorine Taste & Odor Reduction Filter

## FEATURES & BENEFITS

- 0.6 µm Nominal Filtration\*
- High Chemical Adsorptive Capacity\*
- High VOC Reduction\*



## TYPICAL USAGES

MATRIKX® +1 provides comprehensive control of chlorine taste and odor. MATRIKX® +1 offers:

0.6 µm nominal filtration with extended life as a fine sediment and silt control filter, comprehensive removal of chlorine taste and odor and chemicals that contribute to taste and odor, and high VOC reduction capacity.

The service life of MATRIKX® +1 filters are greatly extended by a prefiltration medium.

## TECHNICAL SPECIFICATIONS AND ORDER INFORMATION

Part No.	O.D. x Length (nominal)	Weight	Chlorine Taste & Odor Reduction Capacity @ Flow*	Nominal µm Rating*	Chloroform Reduction*	Initial ΔP @ Flow*
01-250-125-975	2.50" x 9.75" 63.5 mm x 247.7 mm	0.75 lbs. 0.34 kg	>20,000 gal. @ 1.0 GPM >75,000 L @ 3.8 LPM	0.6 µm	750 gal. @ 0.5 GPM 2,800 L @ 1.9 LPM	3.5 psid @ 1.0 GPM 0.24 bar @ 3.8 GPM
01-250-125-20	2.50" x 20" 63.5 mm x 508 mm	1.75 lbs. 0.79 kg	>45,000 gal. @ 2.3 GPM >170,000 L @ 8.7 LPM	0.6 µm	1,750 gal. @ 1.2 GPM 6,600 L @ 4.5 LPM	3.0 psid @ 2.0 GPM 0.21 bar @ 7.6 GPM
01-425-125-975	4.25" x 9.75" 108 mm x 247.7 mm	2.60 lbs. 1.18 kg	>70,000 gal. @ 3.0 GPM >264,000 L @ 11.4 LPM	0.6 µm	2,600 gal. @ 1.5 GPM 9,800 L @ 5.7 LPM	9.0 psid @ 2.0 GPM 0.62 bar @ 7.6 LPM
01-425-125-20	4.25" x 20" 108 mm x 508 mm	5.60 lbs. 2.54 kg	>150,000 gal. @ 7.0 GPM >567,000 L @ 26.5 LPM	0.6 µm	5,600 gal. @ 3.5 GPM 21,000 L @ 13.2 LPM	8.5 psid @ 4.0 GPM 0.59 bar @ 15.1 LPM

\*Based on Manufacturer's Internal Testing

Manufactured using KX's proprietary extrusion process, the MATRIKX® +1 is ideal for use in residential and commercial water purification systems, industrial effluent water treatment, food service, industrial makeup, product rinse, process water, and pre- and post-RO systems which require nearly absolute chlorine taste and odor reduction.



+1

## 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® + 1 filters consist of activated carbon particles fused into a uniform block with enhanced adsorptive capacity and efficiency. MATRIKX® + 1 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® + 1 cartridges will not channel or bypass due to the extreme uniformity of their extruded activated carbon core. Service life of the MATRIKX® + 1 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
- Graded density prefiltration design
- 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® extruded carbon filter varies in direct proportion to the total weight of carbon in each filter. For example, a 4.25" O.D. x 20" L MATRIKX® filter contains approximately seven times as much activated carbon as a 2.50" O.D. x 9.75" L MATRIKX® filter, and will therefore have seven times the rated chlorine taste and odor capacity when operated at seven times the rated flow of the smaller cartridge. Hence, rated flow is based on maintaining identical contact/residence times for all filters.
2. Projected chlorine taste and odor reduction capacity when tested in accordance with NSF/ANSI Standard 42 protocol.
3. Nominal particulate rating (0.6 µm) is for >85% of a given size as determined from single-pass particle counting results.\*
4. Absolute particulate rating (2 µm) is for >99.9% of particles of a given size as determined from single-pass particle counting results.\*\*

\* 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® + 1 filters are not to be autoclaved or steam-sterilized. Use MATRIKX® + 1 carbon filters only with microbiologically safe and adequately disinfected water. Activated carbon filters are not designed to kill or remove bacteria or viruses. 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.

MATRIKX® filters are designed to fit most standard household and commercial or industrial housings. Contact KX Technologies LLC to check filter housing compatibility. This cartridge must be placed in an appropriate housing and flushed for a minimum of 5 minutes prior to use. Use 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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