



## DEM Ultra Water Filter

**DEM ULTRA-10 series**

**DEM ULTRA-20 series**

### Importance of Water Filter for Drinking Water

Access to clean and safe drinking water is essential for maintaining health and well-being. However, globally, nearly 2 billion people still lack access to safely managed drinking water services, which makes the tap water quality a significant concern in many regions. In fact, according to the World Health Organization, approximately 785 million people do not have basic drinking water services, and countless others receive water that is deemed unsafe for consumption. This is where water filters play a crucial role in ensuring the purity of our drinking water. Water filters are designed to remove impurities, including harmful bacteria, viruses, heavy metals, chlorine, and other chemical pollutants that can compromise our health.

Contaminated water can lead to a variety of health issues, including gastrointestinal diseases, reproductive problems, and neurological disorders. Even low levels of pollutants can have long-term effects on health, especially for vulnerable populations such as children, the elderly, and individuals with weakened immune systems. By investing in a water filter, homeowners can take proactive steps to safeguard their health and that of their family.

Moreover, filters not only improve the safety of drinking water but also enhance its taste and odour, making hydration more enjoyable. Among the effective filtration options available, ultra-filtration stands out as a highly recommended method for removing bacteria, viruses, and cysts from water. With various water filter solutions to choose from, and where water quality is increasingly under scrutiny, having a reliable and certified water filter system is not just a convenience; it is a vital investment in health and quality of life.

### Product Description

Introducing our versatile 10-inch and 20-inch multi-stage water filters, designed for flexibility and superior filtration. These systems are built to adapt to your changing water purification needs, allowing for seamless configuration and the addition of extra stages as required. Whether you need basic sediment filtration or advanced purification, these filters can be easily customized to deliver the level of filtration that best suits your environment.

Each component, from the filter elements to the ultra-filtration membrane cartridge, select **NSF Certified De.mem Ultra series**, guaranteeing the highest standards of water quality and safety. Ideal for both residential and commercial settings, these water filters offer reliable, efficient, and customizable solutions, ensuring that your water is clean and taste great for your daily drinking needs.

## Technical Features - Overview

### PP Filter (10 micron)



#### NSF 42 certified

This filter is designed to effectively remove a wide range of contaminants, including various impurities, dirt, suspended solids, sediments, rust, and more from your water supply. By targeting these particles in the pre-filtration stage, the system not only ensures that your water is clean and safe but also significantly enhances the overall efficiency of the entire filtration process. This initial filtration step plays a crucial role in reducing the load on subsequent filters, thereby improving their performance and extending their operational lifespan.



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### Carbon Block (5 micron)



#### NSF 42 Certified

Carbon filtration is a highly effective method for eliminating chemicals and contaminants typically present in tap water. These carbon block cartridges excel at improving taste and odour while significantly reducing chlorine and chloramines. They are also highly efficient at removing organic compounds, lead, cysts, and a wide range of volatile organic compounds (VOCs), making them an outstanding choice for ensuring cleaner, safer, and better-tasting water.



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### NSF 53 Certified

De.mem's Ultra-Filtration Membrane enhanced with advanced Graphene technology, delivering exceptional performance in the removal of bacteria and viruses. This cutting-edge membrane leverages the unique properties of Graphene to provide superior filtration efficiency, ensuring that your water is free from harmful microorganisms. Engineered for both residential and industrial applications, this ultra-filtration membrane offers reliable protection against contaminants while maintaining high water flow rates. With De.mem's Graphene-enhanced Ultra-Filtration Membrane, you can trust that your water is not only clean but also safe, offering peace of mind and unmatched filtration performance.

In short, De.mem's Ultra-Filtration Membranes with Graphene Oxide (GO) offers several key benefits

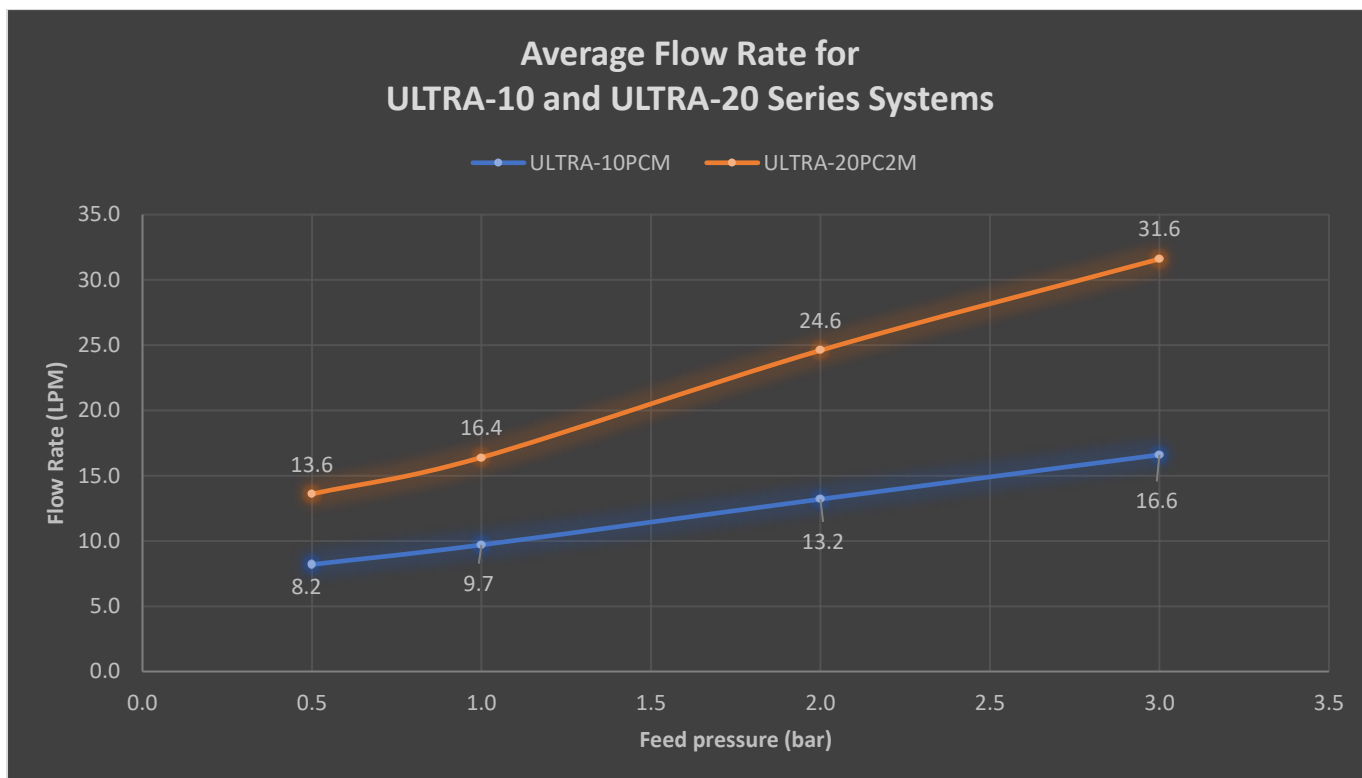
1. **High Permeability:** Graphene oxide membranes have the ability to allow water to pass through very quickly while blocking larger particles and contaminants, improving filtration efficiency.
2. **Antimicrobial Properties:** Graphene oxide possesses inherent antimicrobial properties, which can help reduce biofouling—a common issue in water filtration systems where biological organisms clog membranes.
3. **Chemical Stability:** GO membranes are chemically stable under a wide range of pH values, making them durable.
4. **Mechanical Strength:** The incorporation of graphene oxide into membranes enhances their mechanical strength and structural integrity, allowing for longer service life and resistance to physical wear.



Model No.	DEM ULTRA-10CM	APPLICATION
Size / mm	L530 x W200x H320	Sized perfectly for a high flow under-sink filter
Weight / KG	7.5 kg	Compact and easy to install
Flow Rate (2bar) / LPM	13.2	Only need to change the Filter Element for a lower maintenance cost
Capacity	50,000 Litres (Subjected to feed water and operating conditions)	Cartridges recommended to be replaced 50,000 litres or 18 months, whichever comes first.



Model No.	DEM ULTRA-20PCM	APPLICATION
Size / mm	L530 x W280 x H730	Large filtration capacity for whole house
Weight / KG	17 KG	Compact and does not take up space
Flow Rate (2bar) / LPM	24.6	Only need to replace Filter Element for a lower maintenance cost
Capacity	100,000 Litres (Subjected to feed water and operating conditions)	Cartridges recommended to be replaced 100,000 litres or 18 months, whichever comes first.



*The chart above shows a comparison of flow rate between the standard DEM ULTRA-10 and 20 series water filter systems*



## Packaging Information



Model No.	DEM ULTRA-10CM	DEM ULTRA-20PCM
Gross Weight / KG	8.5	20
Packaging Size / mm	L525 x W220 x H350	L815 x W495 x H355

### For further information, please contact:

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