

PWG - CUSTOM CARE

UF SERIES MEMBRANE FILTRATION SYSTEM

——— MADE TO BE DIFFERENT ———



UF SERIES

MEMBRANE FILTRATION SYSTEM

- Filtration to 0.02 microns
- Continuous flow rates to 12 gpm
- NSF® 61 certified
- Reduction of turbidity, silts, and clays

UF SERIES

The CustomCare® UF Series membrane based filtration system is designed for turbidity and fine sediment filtration applications. The membranes operate with flow from the outside to inside, and a simple backwash cleaning of the membranes with water being the only requirement. The membranes are nonbiodegradable and have superior mechanical and chemical resistance. The UF Series membranes provide filtration for clean, clear water at every faucet or point of use.



APPLICATIONS

- Colloidal removal
- Tannin reduction*
- Reverse Osmosis pre-filter
- Polishing post filter filtration
- Grey water and rainwater use, catchment, and recycling

* Requires field testing with UF Stick

FEATURES

- Designed for turbidity and fine sediment filtration applications
- Patented outside/in membrane tank design
- 0.02 micron filtration
- High performance flow rates up to 12 gpm
- Standard bottom drain and opening for drainage and cleaning of the system
- Low waste water discharge used when cleaning
- Protection during power outages and intermittent power

OPTIONAL FEATURES

- Self-chlorinating feature
- Auto flush kit
- Separate source backwash

TECHNOLOGY THAT IS EASY TO USE

The UF membranes require normal line pressure to operate and have low waste discharge when in backwash/cleaning mode. The UF design offers lower pressure drops at higher service flow rates over conventional cartridge filters. The simple backwashing of the system means no more cartridges to change. The UF can be utilized as a final polishing stage for rainwater, “grey water” systems, and with water reclamation systems.



Four bundled membranes at 0.02 micron filtration.

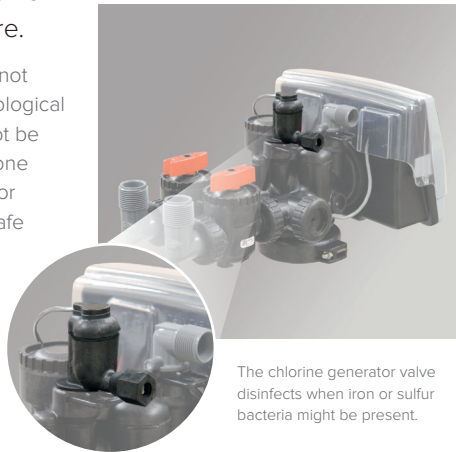
UF MEMBRANE

The UF Series offers 0.02 micron filtration at service flow rates up to 12 gpm, utilizing a patented and industry exclusive tank design. The internal UF module treats turbidity, silts, clays, and other particles down to 0.02 micron size. The backwashable system allows for the use of an easily maintained control valve to be utilized much like a water softener. Manual “in/out” style control valves may also operate the system. The vessel also comes standard with a bottom drain opening for easy drainage and cleaning purposes of the tank system.

DISINFECTION OPTION

In many cases on well water it is advisable to operate the UF Series membrane system with a patented chlorine generator, especially where iron or sulfate reducing bacteria might be present. These bacteria, although not harmful to human health, can produce a “bio film” which can prematurely foul the membrane. A simple chlorination, produced by salt and the chlorine generator, may alleviate this condition allowing the membrane to perform at its peak performance. The chlorine generator is an optional feature.

Note: This product is not certified as a microbiological purifier and should not be applied as a stand-alone disinfection solution for microbiologically unsafe water.



The chlorine generator valve disinfects when iron or sulfur bacteria might be present.

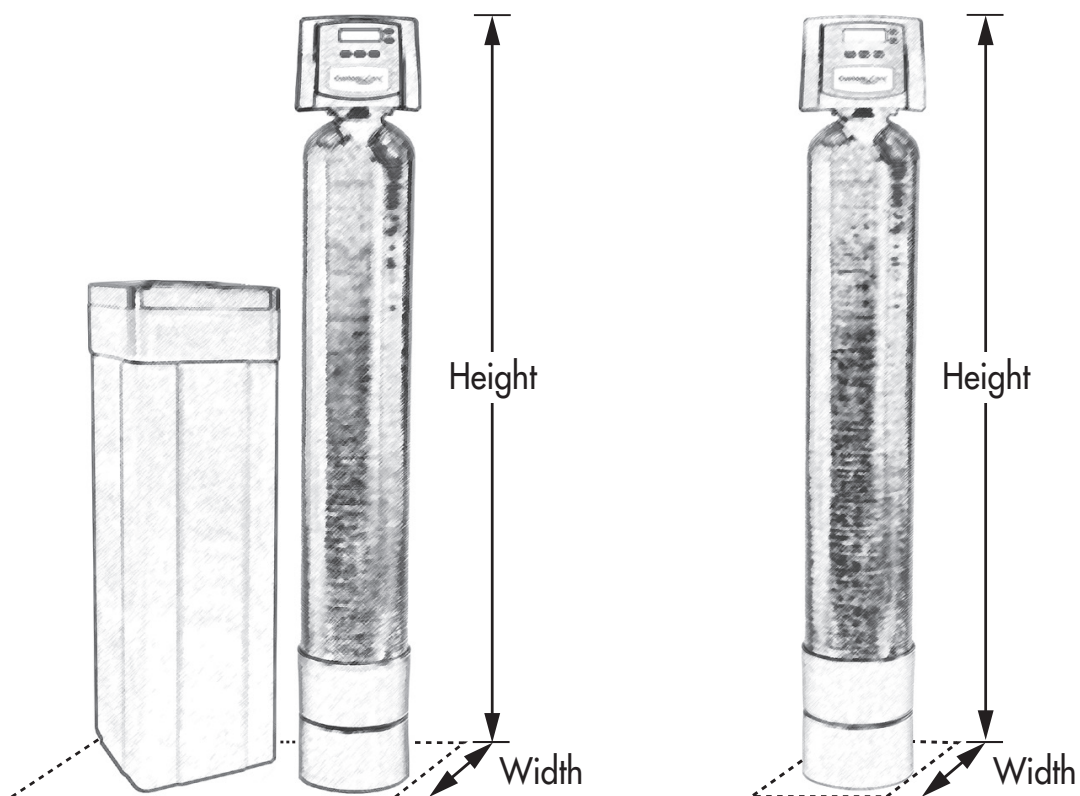
AUTO FLUSH AND SEPARATE SOURCE BACKWASH KITS

Typically the CustomCare UF Series needs to be drained or “blown down” periodically, depending on the loading of this system. The auto flush kit ensures that this happens automatically on a preset schedule, keeping the membrane and housing clean. In the case of extremely turbid waters, a separate source backwash kit may be needed to ensure proper cleaning of the membrane with treated water.



Separate source regeneration (topleft) and auto flush valve (lower right).

CustomCare®



Operating Specifications

| | |
|--|---------------------------------------|
| Filtration Level (micron). | 0.02 |
| 1Peak Flow Rate (at 77° F and 60 psi). | 12 gpm |
| Continuous Flow Rate. | 10 gpm |
| Water Pressure Range (psi). | 10-100 |
| Water Temperature. | 35-100° F |
| Electrical Requirements (V/Hz). | 100V/60Hz |
| Pipe Size. | 1" |
| Total Dimensions (inches): | Media Tank. 8"x44" |
| | Brine Tank (optional). 11"x11"x34" |

¹Flow rates depend upon pressure, temperature, and suspended solids being removed.

Application Specifications

| | |
|----------------------------------|-----------|
| Pre-filtration (micron). | 5 |
| Chlorine (ppm, continuous flow). | 1 |
| Iron, ppm. | <0.3 |
| Manganese, ppm. | 0.05 |
| pH. | 3-11 |
| Tannin. | Variable* |

*Molecular weights of tannins vary greatly. It is important that the filtration level be demonstrated prior to installation.

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DISTRIBUTOR

