

Overview

The Ultrafilter Water Purification System is a stand-alone system that consistently provides clean, filtered water for animal drinking water applications. The system can be applied universally to any Edstrom automated watering system, and used as a stand alone unit or as prefilter for a reverse osmosis system. When used before a reverse osmosis system, the Ultrafilter helps increase membrane life.

The Ultrafilter Water Purification System removes bacteria and viruses from animal drinking water. The system is self-flushing, greatly reducing ongoing maintenance costs. In operation, the system uses electricity to conduct the flushing but can safely run for several days without power (provided there is water pressure) while still supplying filtered water. For this reason, the Ultrafilter is often employed in a facility's emergency contingency plan. By specifying a selectable bypass, the Ultrafilter can circumvent the Reverse Osmosis unit during an emergency.

The system is installed by Edstrom Installation Technicians. This system can be added to new or existing animal watering systems to improve water quality and remove variables in the water supply.

Ultrafiltration provides a level of purification between particle filtration and reverse osmosis, removing viruses and bacteria while leaving in most minerals. For a greater level of purity reverse osmosis will be required. In those applications an Ultrafilter can be used to protect the RO membrane, increase RO efficiency, and reduce costs.

Features & Benefits:

- Removes over 99% of viruses and bacteria from incoming water supply providing safer, cleaner water.
- Self-flushing system reduces operating and maintenance costs by using a back and front flush.
 - Automated cleaning cycles are programmable by time, volume or pressure drop.
- System will operate for several days without power if there is water pressure, allowing for continued filtration during emergencies.
- Compact unit can be easily added to an existing automated watering system.
- Unit can be used for standalone filtration or as prefiltration to a reverse osmosis system.
- Low energy consumption.
- Languages: English, German, Spanish.

Ultrafilter UF-400 Defender

Specifications:

UNIT DIMENSIONS

- Overall Size: 12.4 in. W x 8.3 in. D x 45.6 in. H (315 mm W x 210 mm D x 1156 mm H)
vertical mount

SPACE REQUIREMENT (FOOTPRINT)

- Stand Mount: 36 in. W x 52 in. D x 74 in. H (915 mm W x 1321 mm D x 1880 mm H)
- Wall Mount: 36 in. W x 44 in. D x 74 in. H (915 mm W x 1118 mm D x 1880 mm H)

WEIGHT

- 135 lbs (61 kg) Shipping Weight - Stand Mounted
- 85 lbs (39 kg) Shipping Weight - Wall Mounted

ELECTRICAL

- 90-264 VAC, 50/60 Hz, 15 amp
- Dedicated ground fault circuit interrupter (GFCI) outlet for 3 prong plug - Cord 3.5 ft (1066 mm)

OPERATING CONDITIONS

- Maximum Operating Pressure 58 psi (4 bar)
- Minimum Operating Ambient Temp 34° F (1° C)
- Maximum Operating Ambient Temp 122° F (50° C)
- Minimum Storage Temp 34° F (1° C)
- Maximum Storage Temp 140° F (60° C)

FEEDWATER REQUIREMENTS

- Temperature: 34°F (1°C) Minimum; 104°F (40°C) Maximum
- pH: 2-12
- Chlorine concentration tolerance: 10 ppm maximum; 250,000 ppm hours cumulative.
- Stand Alone Ultrafilter Flow rate: 16 gpm (60 lpm) maximum @ 50 psi (345 kPa, 3.45 bar) minimum to 58 psi (400 kPa, 4.00 bar) maximum
- RO Pretreatment Flow rate: 16 gpm (60 lpm) continuous @ 50 psi (345 kPa, 3.45 bar) minimum to 58 psi (400 kPa, 4.00 bar) maximum

CONTROLLER

- Integrated controller with alphanumeric display
- Input power 90-264V 50/60Hz GFCI Outlet
- Output power 1.6 Amp; 24VDC

CONNECTIONS

- Inlet: 3/4 in.-14 NPT - Male
- Permeate outlet: 3/4 in.-14 NPT - Male
- Drain: 3/4 in.-14 NPT - Male

COMPLIANCE

- CE
- NSF P231
- UL 429/1310
- KIWA

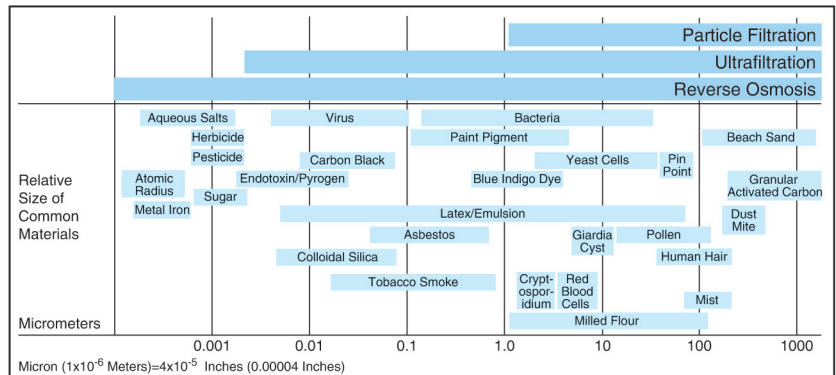
Contact EDSTROM for the availability of additional configurations. All specifications are subject to change without notice.

Operation

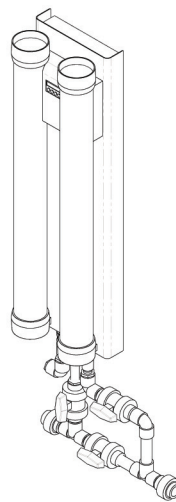
The Ultrafilter UF-400 Defender filters the water using hollow filter membranes which contain billions of microscopic pores. Facility water pressure pushes water through these pores toward the hollow center of the membrane which block contaminants such as bacteria, parasites and viruses. Filtered water then flows through each fiber and out of the unit and into the animal watering system or reverse osmosis unit. Impurities are flushed to drain during a programmed automatic cleaning cycle.

The UF-400 Defender includes an onboard system interface for viewing output volume, pressure drop and unit performance and for changing settings. The interface can be displayed in English, German or Spanish. The programmable alarm provides notification of when the unit requires service.

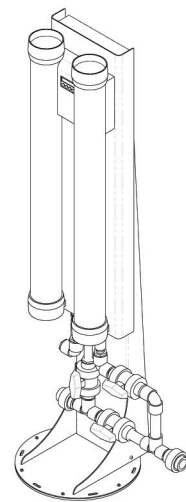
Water Filtration Chart



Ultrafilter Mounting Options



WALL MOUNT



FLOOR MOUNT WITH STAND

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Our Quality Management System is Certified to ISO 9001

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