

EF-UF-Series Ultrafiltration Water Purification Systems

The EF-UF-Series uses hollow-fiber ultrafiltration membrane technology to purify drinking water. Using standard feed water pressure, the ultrafiltration membrane removes 99.999% of bacteria, viruses and parasites from incoming feed water.

The system produces 2,500-5,000 gpd (depending on feed pressure and model) of purified water using two high-capacity gradient depth filters and one hollow-fiber ultrafiltration membrane. An integrated pressure tank provides purified water for membrane backwashing.

The system is operated using four valves which direct system flow: initial startup, standard operation, backwash tank fill, and membrane backwashing. Both operation training and system maintenance are quick and simple.

Where incoming feed pressure is insufficient, an optional feed-side pump may be used to provide water pressure to the system. A solar package may be added where standard electrical power is unavailable.



The EE-UF system purifies drinking water without electricity using a minimum of 35 psi feed pressure. EE-UF-5000 system shown above.

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FEATURES AND SPECIFICATIONS

- Hollow filter ultrafiltration membrane removes 99.999% of bacteria, cysts and viruses
- Prefilter: (2) High efficiency, gradient depth filters
- Prefilter In/Out pressure gauges
- Manual product, feed, drain, flush valves
- Stainless steel membrane housing
- Pressure relief valve

OPTIONS

- Feed-side pump for low-pressure applications
- Delivery pump
- Solar package to run pumps
- Atmospheric storage tank
- Post-filtration

SYSTEM SPECIFICATIONS

Model Number	EF-2500-UF	EF-5000-UF
Production Rate (gpd)	2,500 ¹	5,000 ¹
Dimensions	36"H x 18" W x 15"D	52"H x 18" W x 15"D
Weight lbs/kg	50/23	55/25

¹ Based on feed water at 72°F, <5 NTU, 5% membrane crossflow to drain, and 35 psi operating pressure.

OPERATING SPECIFICATIONS

Feed Pressure	35 -60 psi
Max Operating Pressure	70 psi
Max Water Temperature	100°F
pH Range	3-10
pH Range (optimum)	5-8
Turbidity	<10.0 NTU ²
Iron, Manganese, Hydrogen Sulfide	0 ppm

²Turbidity maximum may be exceeded for brief periods as long as prefilters are checked frequently and changed out when they becomes loaded with silt or other suspended solids.

