

UG-2000

2-Stage Ultrafiltration System

Ultrafiltration is a low-pressure membrane process, capable of removing colloidal materials, fine suspensions, bacteria, virus, suspended solids and large molecular weight organic materials depending on the Molecular Weight cutoff of the membrane.

Ultrafiltration hollow fiber elements are made from polyethersulfone (PES) a hydrophilic, chemically stable polymer capable of operating in aggressive environments. Ultrafiltration hollow fibers have separation layers on both sides of the fiber (double skinned) and can be operated bi-directionally.



UG-2000 Membrane Module Features

- ✓ Tolerant of oxidants, chlorine, ozone
- ✓ Back-flushable; extending production run time between cleanings
- ✓ 100% efficient operated dead ended
- ✓ 98% efficient utilizing back flush
- ✓ Low operating pressures
- ✓ WQA Certified to the USEPA Guide Standard and Protocol for Microbiological Water Purifiers

Applications

- ✓ POE Potable Water, >5 log reduction of Bacteria, Cysts, >6 log virus
- ✓ Reduce Turbidity

(Determined by Independent Laboratory Tests)

*Dual Barrier

Features

- ✓ Ease of installation
- ✓ Easy elements replacement
- ✓ Verifiable element integrity
- ✓ Ease of backflush settings/override
- ✓ Wall or floor installation
- ✓ Easy access of piping, controls and element integrity testing
- ✓ Addition of Bladder to increase surge capacity
- ✓ Dealer supported (Maintenance contract)
- ✓ Extended element life utilizing controllable backflush sequence*
- ✓ Low operating costs
- ✓ Warrantee: Parts and workmanship

*Dependent on Water Quality and Operating Pressure.

Specifications

Membrane Characteristics	PES - Hydrophilic Double-Skin type
Pure water permeability	>180 GFD @ 20 PSI @ 21 0C
Nominal Molecular Weight	100,000 NMW < 0.02 microns
Fiber ID	0.8mm - 1.4 mm
Outside-In Flow Pattern	
Operating Feed Pressure Max.	60 PSI
Backflush Pressure Max.	Up to 30 PSI
Tolerance	
Chlorine Tolerance, Max.	200 ppm @ 11 pH
pH Tolerance	2 – 13
Operating Temp. Max.	120°F
Backflush Chlorine Max.	10 ppm
CIP Pressure, Max.	30 PSI

Note: Max Pressure 60 PSI, requires pressure regulator



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