Pressurized UF Specification

Aftermarket Solutions - 7" Series

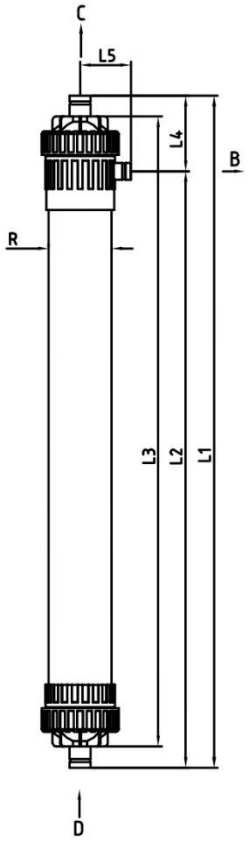
Memstar's *Aftermarket Solutions Series* pressurized ultrafiltration (UF) hollow fiber modules are engineered drop-in replacement products that provide owners of existing UF installations with a higher quality alternative to replace the originally installed products. Products utilizing Memstar's NIPS fiber technology are cost-effective, high-performing, and reliable.

Key Features and Benefits

- **Outside to in filtration = Wider operating window allowing for higher turbidity feeds**
- **Extreme oxidant tolerance = Long life, challenging applications**
- **Industry leading membrane surface area = Fewer racks, smaller footprint**
- **No backwash = High recovery (>97% typical), less waste, lower CAPEX**

Module Specifications

Module Type	UF-0717E
Membrane Material	PVDF (NIPS)
Nominal Pore Size (µm)	0.02
Filtration Mode	Outside-In
Housing Material	uPVC/ABS
Potting Material	Epoxy/PU
Filtration Surface Area (m^2) [ft^2]	56 [603]
Typical Filtrate Flowrate (m^3/hr) [gpm]	2.2 - 6.7 [9.7 – 29.5]
Column volume (L) [gal]	20 [5.3]
Empty Weight (kg) [lbs]	35 [77.2]
L1 (mm) [inches]*	1,919 [75.6]
L2 (mm) [inches]*	1,704 [67.1]
L3 (mm) [inches]*	1,800 [70.9]
L4 (mm) [inches]*	216 [8.5]
L5 (mm) [inches]*	145 [5.7]
R (mm) [inches]*	180 [7.1]
B	Concentrate Port - DN40
C	Filtrate Port - DN50
D	Feed/Discharge/Air Inlet Port - DN50

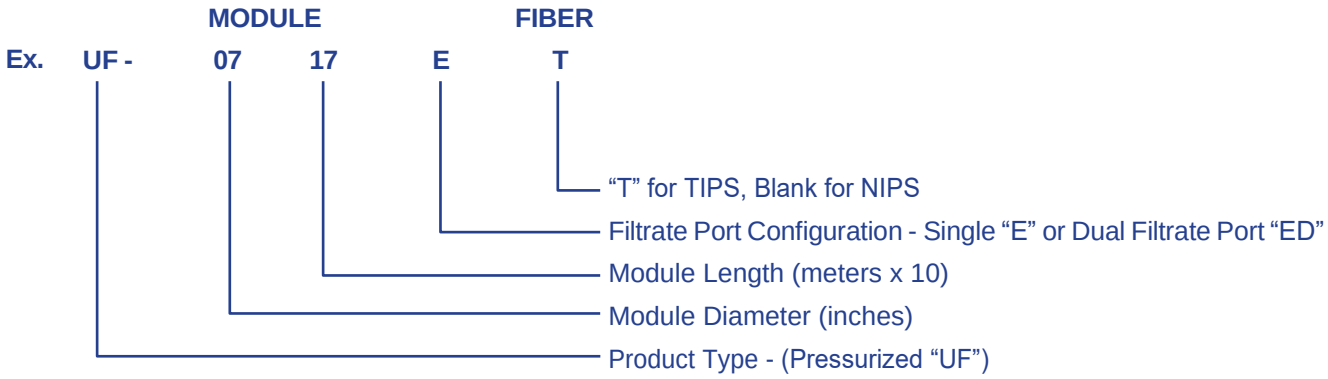


*Approximate dimensions. Check with Memstar for the most up-to-date values and applicable drawings.

MODULE OPERATING PARAMETERS	ALLOWABLE RANGE
Operating temperature (°C) [°F]	5 – 40 [41 - 104]
Typical flux (LMH) [gfd] [1]	40 – 120 [25 - 70]
Air Scour Flowrate (m^3/hr/module) [cfm]	5.1 [3.0]
Instantaneous chlorine tolerance (ppm)	5,000
Maximum lifetime chlorine tolerance (ppm-hrs)	2,000,000
Maximum feed turbidity (NTU) [2]	300
Maximum transmembrane pressure (bar) [psi]	1.5 [21.7]
Maximum feed pressure (bar) [psi] [3]	4 [58]
Oil content in feed water (ppm)	< 0.5
pH range	Operating: 2 – 11; Cleaning: 1 – 12
Allowed particle size in feed water (mm) [2]	≤ 0.3 ≤ 0.12 for seawater

1. Design flux depends on feed type and water quality. Please consult Memstar for flux selection.
2. Please consult Memstar for higher values.
3. At temperatures of 40°C

Product Numbering Guide



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