

Pressurized UF Specification

Aftermarket Solutions - 9" 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 TIPS fiber technology are high-performing, and reliable.

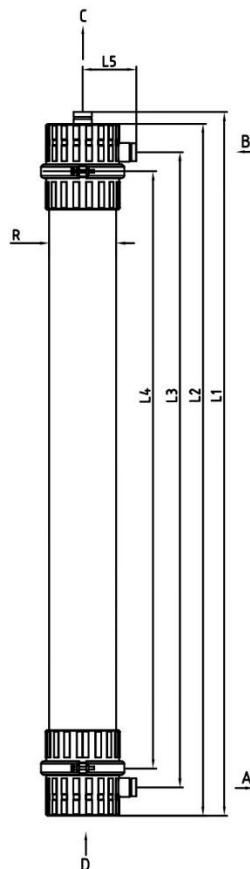
Key Features and Benefits

- High mechanical strength = Long life
- Extreme caustic and oxidant tolerance = Long life, challenging applications
- Industry leading membrane surface area = Fewer racks, smaller footprint
- No backwash = High recovery, less waste, lower CAPEX

Module Specifications

Module Types	UF-0915ET	UF-0920ET
Membrane Material	PVDF (TIPS)	
Nominal Pore Size (μm)	0.04	
Filtration Mode	Outside-In	
Housing Material	uPVC/ABS	
Potting Material	Epoxy/PU	
Filtration Surface Area (m^2) [ft^2]	51 [549]	77 [829]
Typical Filtrate Flowrate (m^3/hr) [gpm]	2.0 - 6.1 [8.9 – 26.9]	3.0 - 9.2 [13.2 – 40.5]
Column volume (L) [gal]	35 [9.2]	39 [10.3]
Empty Weight (kg) [lbs]	47 [104]	61 [134.5]
L1 (mm) [inches]*	1,860 [73.2]	2,360 [92.9]
L2 (mm) [inches]*	1,820 [71.7]	2,320 [91.3]
L3 (mm) [inches]*	1,630 [64.2]	2,130 [83.9]
L4 (mm) [inches]*	1,500 [59.1]	2,000 [78.7]
L5 (mm) [inches]*	180 [7.1]	
R (mm) [inches]*	225 [8.9]	
A	Feed Port/Discharge Port - DN50	
B	Filtrate Port - DN50	
C	Concentrate Port - DN50	
D	Air Inlet Port - 3/8"	

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



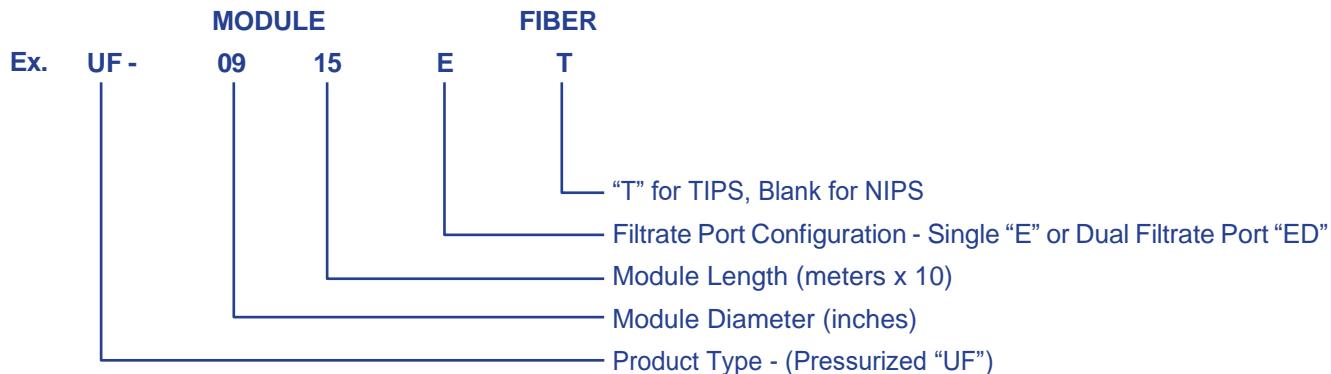
MODULE OPERATING PARAMETERS		ALLOWABLE RANGE
Operating temperature (°C) [°F]		5 – 40 [41 - 104]
Typical flux (LMH) [gfd] ¹		40 – 120 [25 - 70]
Air Scour Flowrate (m ³ /hr/module) [cfm]		5 - 12 [2.9 - 7.1]
Instantaneous chlorine tolerance (ppm)		10,000
Maximum lifetime chlorine tolerance (ppm-hrs)		3,000,000 ²
Maximum feed turbidity (NTU) ²		300
Maximum transmembrane pressure (bar) [psi]		2.1 [30]
Maximum feed pressure (bar) [psi] ³		6.25 [91]
Oil content in feed water (ppm)		< 2
pH range		Operating: 2 – 12; Cleaning: 1 – 14
Allowed particle size in feed water (mm) ²		≤ 0.5 ≤ 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 20°C

Product Numbering Guide



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