

# Pressurized UF Specification

## Aftermarket Solutions - 9" IP 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.

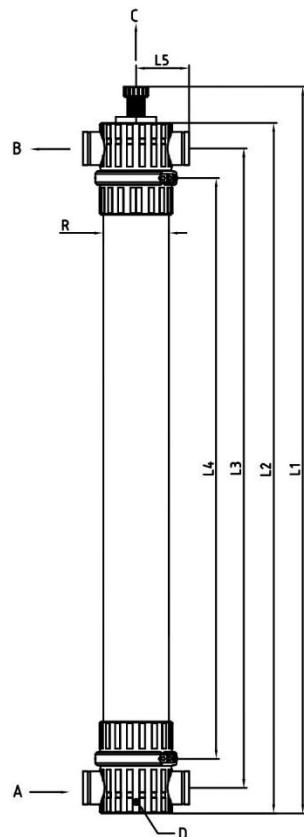
### Key Features and Benefits

- 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-IP	UF-0920ET-IP
Membrane Material	PVDF (TIPS)	
Nominal Pore Size ( $\mu\text{m}$ )	0.04	
Filtration Mode	Outside-In	
Housing Material	uPVC/ABS	
Potting Material	Epoxy/PU	
Filtration Surface Area ( $\text{m}^2$ ) [ $\text{ft}^2$ ]	51 [549]	77 [829]
Typical Filtrate Flowrate ( $\text{m}^3/\text{hr}$ ) [gpm]	2.0 - 6.1 [8.9 - 26.9]	3.0 - 9.2 [13.2 - 40.5]
Column volume (L) [gal]	49 [12.9]	53 [14.0]
Empty Weight (kg) [lbs]	53 [116]	66 [145]
L1 (mm) [inches]*	1,988 [78.2]	2,488 [97.9]
L2 (mm) [inches]*	1,864 [73.4]	2,364 [93.1]
L3 (mm) [inches]*	1,689 [66.5]	2,189 [86.2]
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/Discharge Port - DN100	
B	Concentrate Port - DN100	
C	Filtrate Port - DN40	
D	Air Inlet Port - 3/8"	

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



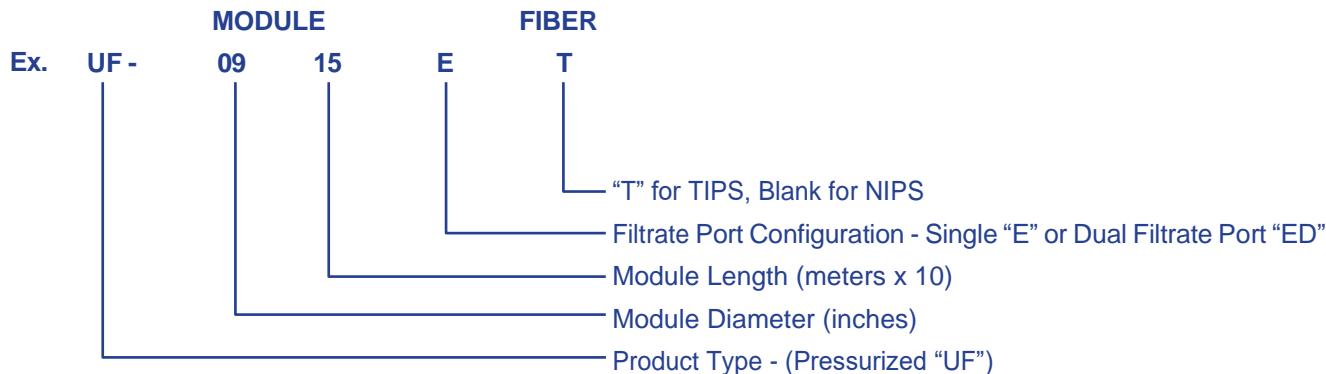
MODULE OPERATING PARAMETERS	ALLOWABLE RANGE
Operating temperature (°C) [°F]	5 – 40 [41 - 104]
Typical flux (LMH) [gfd] <sup>1</sup>	40 – 120 [25 - 70]
Air Scour Flowrate (m <sup>3</sup> /hr/module) [cfm]	5 - 12 [2.9 - 7.1]
Instantaneous chlorine tolerance (ppm)	10,000
Maximum lifetime chlorine tolerance (ppm-hrs)	3,000,000
Maximum feed turbidity (NTU) <sup>2</sup>	300
Maximum transmembrane pressure (bar) [psi]	2.1 [30]
Maximum feed pressure (bar) [psi] <sup>3</sup>	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) <sup>2</sup>	≤ 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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