

Pressurized UF Specification 10" Module Series - NIPS

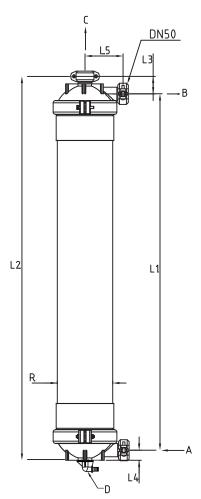
Memstar pressurized ultrafiltration (UF) hollow fiber modules utilize our advanced, engineered 10" module designs and NIPS PVDF fiber technology, providing customers products that are cost effective, high performing, and reliable. Our pressurized UF modules with NIPS PVDF are used in hundreds of plants globally to remove suspended solids, including bacteria, viruses, and organic and inorganic compounds. Typical applications include the treatment of surface water and seawater for RO pretreatment.

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-1010E	UF-1015E	UF-1020E
Membrane Material	PVDF (NIPS)		
Nominal Pore Size (um)	0.04		
Filtration Mode	Outside-in		
Housing Material	uPVC/ABS		
Potting Material	Epoxy/Polyurethane		
Filtration Surface Area (m²)[ft²]	55 [592]	80 [861]	120 [1,290]
Typical Filtrate Flowrate (m³/hr) [gpm]	3 - 3.9 [13 - 17]	4.4 - 5.6 [19 - 25]	6.6 - 8.4 [29 - 37]
Column volume (L) [gal]	25 [6.6]	40 [10.6]	55 [14.5]
Weight (kg) [lbs]	35 [77]	44 [97]	54 [119]
L1 (mm) [inches]*	1,072 [42.2]	1,607 [63.3]	2,107 [83.0]
L2 (mm) [inches]*	1,195 [47]	1,730 [68.1]	2,230 [87.8]
L3 (mm) [inches]*	78 [3.2]		
L4 (mm) [inches]*	45 [1.8]		
L5 (mm) [inches]*	172 [6.8]		
R (mm) [inches]*	250 [9.8]		
А	Feed/Drain Port - DN50		
В	Filtrate Port - DN50		
С	Concentrate Bleed Port - DN50		
D	Air Inlet Port - 3/4" Hose Barb		



** DN50 clamps not included

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

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or is subject to change. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract. Additional operating information, storage instructions and warranty terms may apply. No warranty is implied. Please contact Memstar for more information.

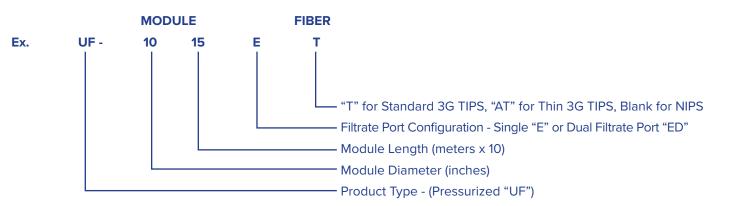
MODULE OPERATING PARAMETERS	ALLOWABLE RANGE	
Operating temperature (°C) [°F]	5 – 45 [41 – 113]	
Typical flux (LMH) [gfd] ¹	40 – 120 [25 – 70]	
Air Scour Flowrate (m³/hr/module) [cfm]	15 [9]	
Instantaneous chlorine tolerance (ppm)	2,000	
Maximum lifetime chlorine tolerance (ppm-hrs)	500,000	
Maximum feed turbidity (NTU) ²	300	
Maximum transmembrane pressure (bar) [psi]	1.5 [22]	
Maximum feed pressure (bar) [psi] ³	3 [44]	
Oil content in feed water (ppm)	< 0.5	
pH range	Operating: 1 – 10; Cleaning: 1 – 11	
Allowed particle size in feed water (mm) ²	≤ 0.5 ≤ 0.12 for seawater feeds	



1. Flux selection depends on feed type and water quality. Please consult Memstar for flux selection.

Please consult Memstar for higher values.
At maximum temperature of 45°C.

Product Numbering Guide



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