

Pressurized UF Specification

6" Module Series (ED) – TIPS Fiber

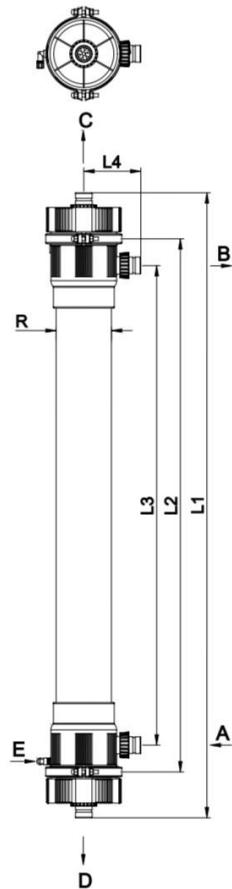
Memstar pressurized ultrafiltration (UF) hollow fiber modules combine advanced engineering concepts and best-in-class TIPS fiber technology to provide the highest performing ultrafiltration products in the market. These products are used in hundreds of plants globally to remove suspended solids, including bacteria, viruses, and organic and inorganic compounds. Typical applications include the treatment of tertiary wastewater, surface water, and seawater for reverse osmosis (RO) pre-treatment.

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
- Dual filtrate port = Lower operating pressure, lower OPEX

Module Specifications

Module Types	UF-0615EDT	UF-0620EDT
Membrane Material	PVDF (TIPS)	
Nominal Pore Size (μm)	0.04	
Filtration Mode	Outside-In	
Housing Material	uPVC/ABS	
Potting Material	Epoxy/Polyurethane	
Filtration Surface Area (m^2) [ft^2]	40 [430]	50 [538]
Typical Filtrate Flowrate (m^3/hr) [gpm]	1.6 – 4.8 [7.0 – 21.1]	2.0 - 6.0 [8.8 – 26.4]
Column volume (L) [gal]	15 [4]	20 [5.3]
Empty Weight (kg) [lbs]	25 [55.2]	31.5 [69.5]
L1 (mm) [inches]*	1,806 [71.1]	2,276 [89.6]
L2 (mm) [inches]*	1,540 [60.6]	2,009 [79.1]
L3 (mm) [inches]*	1,386 [54.6]	1,855 [73.1]
L4 (mm) [inches]*	165 [6.5]	
R (mm) [inches]*	160 [6.3]	
A**	Feed Port /Discharge Port – DN40	
B**	Concentrate Port – DN40	
C**	Filtrate Port – DN40	
D**	Filtrate Port – DN40	
E	Air Inlet Port - Ø 12/9.5	



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

** Dimension already include the 6-s adaptor for ANSI compatibility. Adaptors will be shipped as accessories and need to be installed onsite as per requirement.

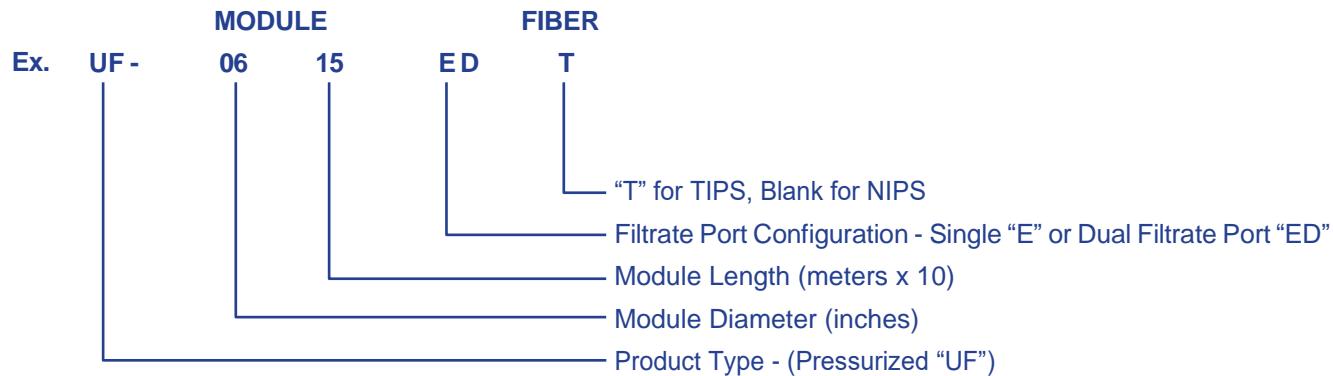
MODULE OPERATING PARAMETERS		ALLOWABLE RANGE
Operating temperature (°C) [°F]		5 – 40 [41 - 104]
Typical flux (LMH) [gfd] ¹		40 – 120 [25 - 70]
Air Scour Flowrate (m ³ /hr/module) [cfm]		5 [3]
Instantaneous chlorine tolerance (ppm)		10,000
Maximum lifetime chlorine tolerance (ppm-hrs)		3,000,000
Maximum feed turbidity (NTU) ²		300
Maximum transmembrane pressure (bar) [psi]		2 [29]
Maximum feed pressure (bar) [psi] ³		3 [44]
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 40°C

Product Numbering Guide



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