

HFU-2020AN

Pressurized Outside to In / Dead-end Filtration Ultrafiltration (UF) Membrane Module

Toray's PVDF membrane construction is highly resistant to chlorine and strong acids, which allows for better cleaning and optimization of filtration flux rates after cleaning. The hollow fiber modules effectively remove suspended solids, viruses, and bacteria and are certified for drinking water applications.

Membrane Characteristics	Unit	Value
Membrane Material		PVDF (Polyvinylidene fluoride)
Nominal Pore Size	μm	0.01
Outer Membrane Surface Area	m ² (ft ²)	72 (775)
Operating Parameters	Unit	Value
Maximum Feed water / Filtrate Flow	m ³ /h (gpm)	12 (53)
Maximum Backwash Flow	m ³ /h (gpm)	13.5 (59)
Maximum Air Flow	Nm ³ /h (scfm)	9.0 (5.3)
Maximum Inlet Pressure	kPa (psi)	300 (43.5)
Maximum Backwash Pressure	kPa (psi)	300 (43.5)
Normal Operating Transmembrane Pressure	kPa (psi)	0–200 (0–29)
Operating Temperature Range	°C (°F)	1–40 (34–104)
pH Range	During Filtration	1–10
	During Cleaning	0–12

*Please contact Toray for operating manual and preliminary design, as capacity per module is highly dependent on feed water quality.



Product Certifications & Compliances

(Please contact Toray for details on the certified modules)

- NSF/ANSI/CAN 61 for drinking water applications
- NSF/ANSI 419 to comply with the U.S. EPA's Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR), which allows membrane manufacturers to prove Cryptosporidium reduction
- Association of Membrane Separation Technology of Japan
- Korea Water and Wastewater Works Association



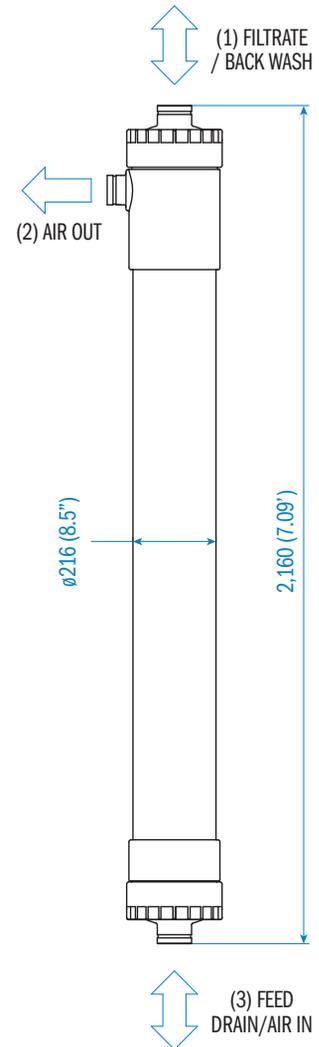
Applications

Drinking water, Industrial process water, Pretreatment for seawater RO desalination, Secondary and Tertiary wastewater

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Dimensions and Weight		Unit	Value
Diameter		mm (in)	216 (8.5)
Length		mm (ft)	2,160 (7.087)
Weight	Full of Water	kg (lbs)	92 (203)
	After Draining	kg (lbs)	49 (108)
Connections		Value	
(1) Filtrate / Backwash		Housing type joint, 80A	
(2) Air Out		Housing type joint, 65A	
(3) Feed Drain / Air In		Housing type joint, 80A	
Material Composition			
Casing		uPVC	
Cap		uPVC	
Potting		Epoxy resin	
O-ring		EPDM	



Please contact Toray for more detailed drawing and dimensions.

Toray accepts no responsibility for results obtained by the application of this information or the safety or suitability of Toray's products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product combination for their own purposes.

All data may change without prior notice, due to technical modifications or production changes. Please be sure to inquire about the latest product specifications.

Headquarters

Japan +81 3 3245 4542

Asia Pacific

China (TBMC) +86 10 8048 5216
Singapore (TAS) +65 6226 0525
Korea (TAK) +82 2 3279 7365

Americas (TMUS)

USA +1 (858) 218 2360

Europe & Sub-Saharan Africa (TMEU)

Switzerland +41 61 415 8710

Middle East (TMME)

Saudi Arabia +966 13 568 0091
U.A.E. +971 4 392 8811

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