

HFU-2020

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		m² (ft²)	72 (775)
Operating Parameters		Unit	Value
Maximum Feed water / Filtrate Flow		m³/h (gpm)	12 (53)
Maximum Backwash Flow		m³/h (gpm)	13.5 (59)
Maximum Air Flow		Nm³/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)	0-40 (32-104)
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 and Compliances

- NSF/ANSI 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



Applications

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



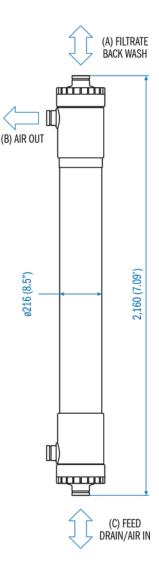
HFU-2020

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

Dimensions and Weight		Unit	Value	
Diameter		mm (in)	216 (8.5)	
Length		mm (ft)	2,160 (7.087)	
	Full of Water	kg (lbs)	92 (203)	
Weight	After Draining	kg (lbs)	49 (108)	
Connections		,	Value	
(A) Filtrate Outlet			80A	
(B) Air Outlet			65A	
(C) Feed Water / Air Inlet			A08	
Material Specifications				
Description		N	Material	
Casing		l	uPVC	
Сар			uPVC	



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 $\label{eq:make-product} \mbox{make their own tests to determine the safety and suitability of each product combination for their own \end{suitability}$

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

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

Switzerland +41 61 415 8710

Middle East (TMME)

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

©2021 Toray Industries, Inc.





For more info, please visit



2 of 2 01-MB2-02-210331