

F-HFUG-2020AN

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

F-HFUG-2020AN is an innovative ultrafiltration membrane that enhances operational stability and reduces costs in integrated UF - RO systems.

By halving the nominal pore size of HFUG, it significantly improves separation performance while maintaining the mechanical strength, chemical resistance, dimensional compatibility, and filtrate flux of conventional membranes.

Membrane Characteristics		Unit	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		μm	0.005
Outer Membrane Surface Area		m ² (ft ²)	90 (969)
Operating Parameters		Unit	Value
Maximum Feed water / Filtrate Flow		m ³ /h (gpm)	15 (66)
Maximum Backwash Flow		m ³ /h (gpm)	16.8 (74)
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 Trans-membrane 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 (Under Application)
- 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 (Under Application)

Applications

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

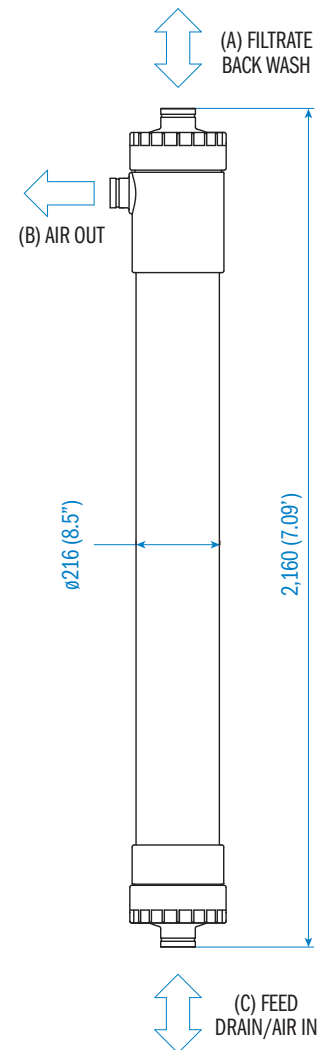


■ Product Datasheet

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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		PVC-U	
Cap		PVC-U	
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.

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