Product Datasheet

Innovation by Chemistry

HSU-1515

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

The submerged filtration method is ideal for treating feed water with high turbidity because of effective drainage and sludge removal. No pressure casing, less piping, and fewer valves can reduce capital costs and minimizes footprint requirements.



Membrane Characteristics		Unit	Value
Membrane Material			PVDF (Polyvinylidene fluoride)
Nominal Pore Size		µm	0.01
Outer Membrane Surface Area		m^2 (ft^2)	20 (215)
Operating Parameters		**Unit**	**Value**
Maximum Feed water / Filtrate Flow		m^3/h (gpm)	2.0 (8.8)
Maximum Backwash Flow		m^3/h (gpm)	3.0 (13.2)
Maximum Air Flow		Nm^3/h (scfm)	4.5 (2.6)
Maximum Backwash Pressure		kPa (psi)	200 (29.0)
Normal Operating Transmembrane Pressure		kPa (psi)	0–100 (0–14.5)
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.

Applications

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

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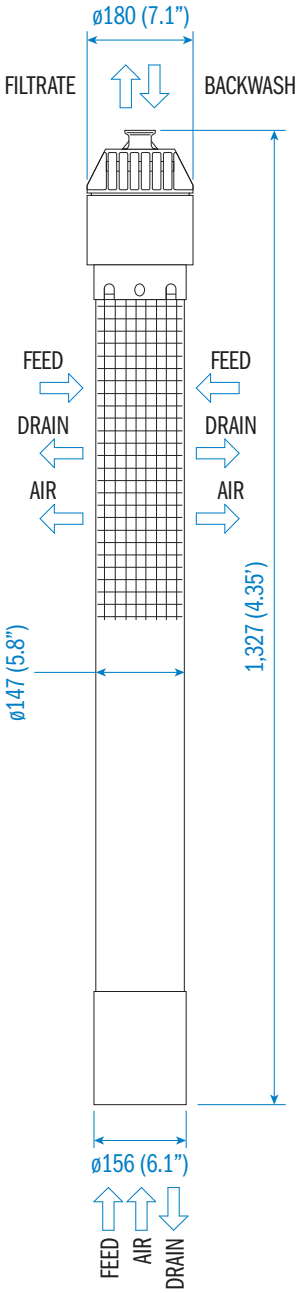
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Dimensions and Weight		Unit	Value
Diameter		mm (in)	147 (5.79)
Length		mm (ft)	1,327 (4.35)
Weight	Dry Condition	kg (lbs)	10 (22)
	Wet Condition	kg (lbs)	14 (31)

Connections	Value
Filtrate Outlet	IDF/ISO Clamp Union Fittings 1.5s

Material Composition	
Cap / Protective Cylinder	ABS / PE
Potting	Epoxy
O-ring	EPDM



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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