Crystar® Module

Crystar® Filtration Technology

Module-1000

Product information

Overview

Crystar® modules represent the next generation of liquid microfiltration technology. Equipped with consistent and high quality silicon carbide (SiC) membranes, these modules can filter demanding liquids at unparalleled levels of efficiency. The modules operate in dead-end configuration and can be installed in usual rack designs for several water treatment applications. By combining the unique SiC properties with a robust and well-engineered glass fiber reinforced polymer housing, Crystar® FT modules set a new benchmark for liquid microfiltration in various applications.

Key Benefits

- Robust and durable materials thanks to the outstanding properties of silicon carbide as well as glass fiber reinforced polymer.
- High filtration flow rates thanks to high permeate fluxes and low fouling propensity.
- Reduced energy consumption thanks to unmatched SiC permeability and optimized hydraulic design allowing for low filtration pressures.
- Compact installation in usual rack designs.
- High water recovery and productivity thanks to low water consumption, fast and effective backwash operations (10 – 60 liters of water per filtration module per backwash).
- Several options for efficient chemical cleaning and chemically enhanced backwash procedures.

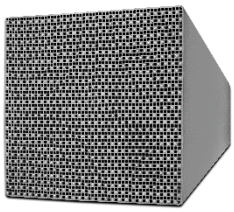
Applications

- Drinking water production
- Preparation of high purity industrial process water
- Pre-treatment before RO/NF processes
- Industrial & municipal wastewater
- Filtration of swimming pools

Solve your liquid filtration challenges with Crystar® FT – Contact us!

Figures

GRP Housing



Crystar® Dead-End Membrane with Honeycomb Structure

PERFORMANCE CERAMICS & REFRACTORIES

SAINT-GOBAIN

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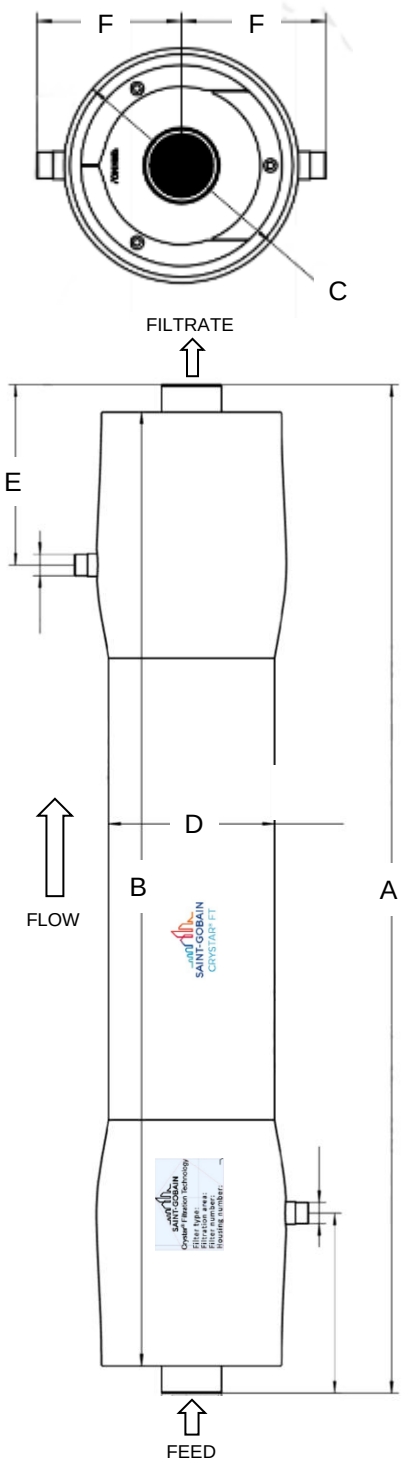
Product information

External Dimensions

Fitting Feed / Permeate* (Qty 2), PVC-U DIN 8062		3.5 in	90 mm
Side Port (Qty 2), PVC-U DIN 8062		1.3 in	32 mm
Length	A	59.7 in	1517 mm
	B	56.5 in	1435 mm
Outer Diameter	C	11.2 in	285 mm
	D	9.8 in	249 mm
Side Ports Position	E	10.7 in	271 mm
	F	6.9 in	175.5 mm



Specifications

Membrane Material		Silicon Carbide (>99%)	
Membrane Pore Size**		HiPur: 0.25 µm HiFlo: 4.0 µm	
Filtration Area		118.4 / 172.4 ft²	11 / 16 m²
Channel Hydraulic Diameter		0.1 in	1.9 mm
Vessel Materials		• GRP shell • PVC-U connections • Stainless steel fixtures	
Weight	Drained	99.2 lbs	45 kg
	Full	209.4 lbs	95 kg
Module Hold Up Volume		13.2 gal	50 L

Operating Parameters***

pH Range	Continuous operation Chemical cleaning	2 – 12 1 – 13	
Max. operating Temperature	Continuous operation Chemical cleaning	104 °F 150 °F	40°C 65 °C
Typical Filtrate Flow Rate		HiPur A+: 5 to 10 m³/h HiFlo A+: 10 to 20 m³/h	
Recommended Diff. Pressure Range		2.9 – 22.0 psi	0.2 - 1.5 bar
Recommended Backwash Pressure		36.3 psi	2.5 bar
Typical Backwash Flow Rate		30 – 60 m³/h	
Air Backwash		2 – 3 bar for 5 – 10 sec	
Typical water consumption per backwash		10 to 60 liters	

* Different dimensions upon request.
** Measurement by mercury intrusion.
*** Operating parameters will strongly depend on feed water composition and characteristics, as well as type of dead-end filter. Please consult us for additional information.

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