

# CRYSTAR® FT MODULE

## FOR MICROFILTRATION

### 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.



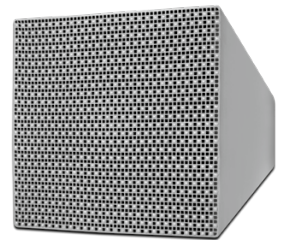
High water recovery and productivity thanks to low water consumption, fast and effective backwash operations (10 - 60 liters of water per filtration module per backwash).



Several options for efficient chemical cleaning and chemically enhanced backwash procedures.



GRP Housing



Crystar® Dead End Membrane with Honeycomb Structure

### APPLICATIONS

INDUSTRIAL & MUNICIPAL WASTEWATER ■ DRINKING WATER PRODUCTION  
FILTRATION OF SWIMMING POOLS ■ PRE-TREATMENT BEFORE RO/NF PROCESSES  
PREPARATION OF HIGH PURITY INDUSTRIAL PROCESS WATER



CRYSTAR® FILTRATION TECHNOLOGY MODULE-1000

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.

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 of vessel	56.5 in	1435 mm	
Distance between end connections	57.5 in	1460 mm	
Outer diameter of vessel	9.8 in	249 mm	
Radial distance from center to side port	6.34 in	161 mm	
Side Ports Position	12.3 in	312.5 mm	
SPECIFICATIONS			
Membrane Material	Silicon Carbide (>99%)		
Membrane Pore Size**	HiPur/HiPur A+: 0.25 µm		
	HiFlo/HiFlo A+: 4.0 µm		
Filtration Area	HiPur/HiFlo: 118.4 ft²	HiPur/HiFlo: 11 m²	
	HiPur A+/HiFlo A+: 172.4 ft²	HiPur A+/HiFlo A+: 16 m²	
Channel Hydraulic Diameter	0.1 in	1.9 mm	
Vessel Materials	• GRP shell • PVC-U connections • Stainless steel fixtures		
Weight	Drained	66.1 lbs	30 kg
	Full	176.4 lbs	80 kg
Module Hold Up Volume	13.2 gal	50 L	
OPERATING PARAMETERS***			
pH Range	Continuous operation	2 – 12	
	Chemical cleaning	1 – 13	
Max. operating Temperature	Continuous operation	104 °F	40°C
	Chemical cleaning	150 °F	65 °C
Typical Filtrate Flow Rate		HiPur: 5 m³/h	
		HiFlo A+: 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 possible 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.

For more information:  
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