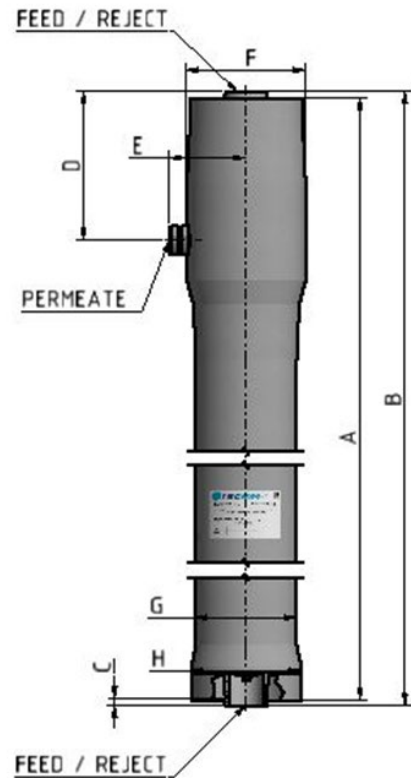


## PHYSICAL DIMENSIONS

Membrane Module		CM-151	
Module Length	(+/- 4 mm)	A	1891 mm / 74.5 in
	(+/- 3 mm)	B	1918 mm / 75.5 in
	(+/- 0.7 mm)	C	15.9 mm / 0.63 in
Side Port Dimension	(+/- 2 mm)	D	309 mm / 12.2 in
	(+ 0.3/- 1 mm)	E	159 mm / 6.3 in
Module Diameter	(+/- 4 mm)	F	249 mm / 9.8 in
	(+/- 1.5 mm)	G	211.5 mm / 8.3 in
	(+/- 2.5 mm)	H	231.5 mm / 9.1 in
Grooved Fitting Feed / Reject (Qty 2)		DN-80	3-inch
Grooved Fitting Permeate		DN-50	2-inch

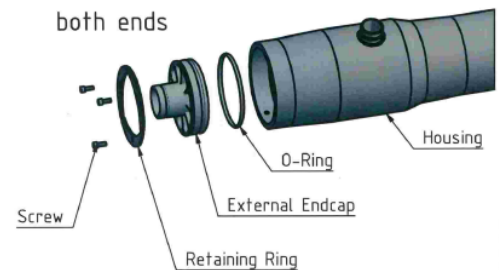


## SPECIFICATIONS

Surface Area		24.3 m <sup>2</sup>	262 ft <sup>2</sup>
Nominal Channel Size (Hexagonal)		2.4 mm	0.09 in
Weight (+/- 5 kg)	Dry	78 kg	172 lbs.
	As Shipped	80 kg	176 lbs.
Module Hold Up Volume:		32 L	8.5 gal
Vessel Materials		Fiberglass Reinforced Plastic (FRP) Shell Fluoroelastomer (FKM) Seals Duplex 2205/Super-duplex 2507 Permeate Port CPVC Feed/Reject Ports	
Membrane Material		$\alpha - \text{Al}_2\text{O}_3$	
Membrane Nominal Pore Size		30 nm	
Module Operating Position		Vertical	



Certified according to:  
NSF 61, 372 & 419





# CM-151 Technical Data Sheet

Ceramic Ultrafiltration Monolith Module

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## OPERATING PARAMETERS\*

Continuous pH Range	2 - 12	
Max. Applied Pressure @ 77°F/ 25°C	7 bar	100 psi
Operating Temperature Range**	1-35°C	34-95°F
Coagulant Compatibility	Iron and Aluminum based coagulants	
Continuous Free Chlorine	<5ppm	
Free Oil and Grease	<5ppm	
Continuous Peroxide**	<5ppm	

Filtration Flux	150-500 l/m <sup>2</sup> /hr	88-294 GFD
Filtration Flow	3.5-12 m <sup>3</sup> /hr	16-54 GPM
Filtration Modes	Dead end inside/Out	
Backwash Flux	500 l/m <sup>2</sup> /hr	294 GFD

\*Consult Nanostone to Determine Process Specific Parameters

\*\*Contact Nanostone for Limitations

## CLEANING PARAMETERS AND COMPATIBILITY\*

Cleaning pH Range	1- 13
Cleaning Temp Range	1-55°C
Hydrochloric Acid	pH ≥ 1
Citric Acid	pH ≥ 1
Sodium Hydroxide	pH ≤ 13
Free Chlorine Cleaning**	2000 ppm
Phosphoric Acid	Not Compatible
Hydrofluoric Acid	Not Compatible

\*Consult Nanostone to Determine Process Specific Parameters

\*\*Contact Nanostone for Limitations

