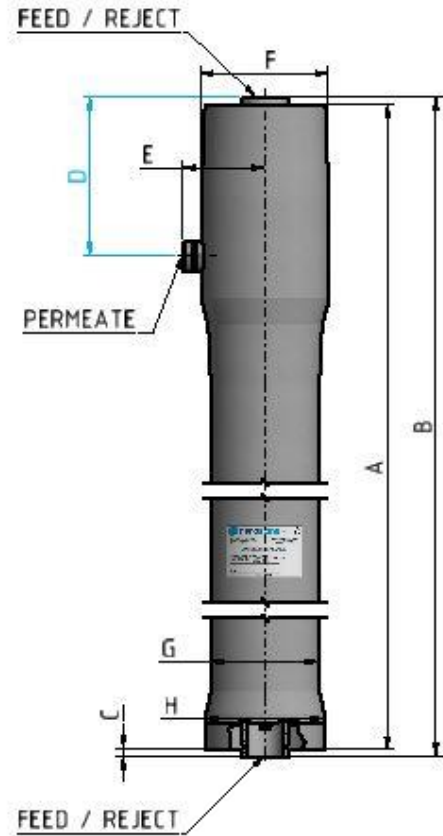


PHYSICAL DIMENSIONS

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

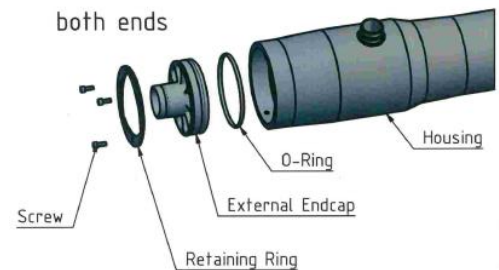


SPECIFICATIONS

Surface Area		262 ft ²	24.3 m ²
Nominal Channel Size (Hexagonal)		0.09 in	2.4 mm
Weight (+/- 11 lbs; 5kg)	Drained	176,4 lbs	80 kg
	Full	276 lbs	125 kg
Module Hold Up Volume		10.5 gal	40 L
Vessel Materials		FRP Shell, FKM/EPDM Seals, Duplex 2205 port, PVC end caps	
Membrane Material		$\alpha - \text{Al}_2\text{O}_3$	
Membrane Nominal Pore Size		0.03 micron	30 nm
Module Operating Position		Vertical	



Certified according to:
 NSF 61, 372 & 419



OPERATING PARAMETERS*

Process pH Range	2 - 12	
Max. Applied Pressure @ 77°F/ 25°C	100 psi	7 bar
Operating Temperature Range**	33-113°F	1-35°C
Continuous Free Chlorine	<5ppm	
Free Oil and Grease	<5ppm	
Continuous Peroxide**	<5ppm	

TYPICAL FLUX RANGES

Filtration Flux	85-300 GFD	150-500 l/m2/hr
Filtration Flow	15-55 GPM	3.5-12 m3/hr
Filtration Modes	Dead end inside/Out	
Backwash Flux	150-353 GFD	255-600 l/m2/hr

*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