

Submerged Ultrafiltration Membrane Module

	HYDRAsub™ MAX-MBR	HSMM200-ES
Module Specifications	Configuration: Fiber Orientation: Filtrate Flow : Membrane Polymer: Pore Size (nominal): Number of Elements in Module: Nominal Membrane Area per Module: Permeate Connections: Air Connections: Guide Pipe Connections: Typical Module Dry Weight: Typical Module Wet Weight:	Submerged Membrane Vertical Bi-directional Polyvinylidene Flouride (PVDF) 0.05 µm 5 (40 m² each) 2152 ft² (200 m²) (2)- 2" MNPT (2)- 1 1/2" MNPT (2)- to fit 2.5" pipes 360 lbs (164 kg) 502 lbs (227 kg)
Operating Specifications	Maximum Trans Membrane Pressure (Vacuum): Maximum Backwash Trans Membrane Pressure : Maximum Instantaneous Chlorine Concentration: Maximum Chlorine Tolerance: MLSS Range: Operating Temperature Range: Feed Water pH Range: Cleaning pH Range: Operating Mode:	-6 psig (-0.41 bar) 2 psig (0.14 bar) 5,000 ppm ^a 742,000 ppm-hrs ^b 8,000 - 12,000 mg/L ^c 41 - 104°F (5 - 40° C) 6.0 - 8.0 1.0 - 11.0 Outside to Inside
Typical Process Conditions	Operating Filtrate Flux†: Peak Operating Flux†: Chemically Enhanced Backwash (CEB) Flux: CEB Chemicals: Clean In Place (CIP) Flux: CIP Chemicals:	4-20 gfd (7-34 l/mh) 30 gfd (51 l/mh) 2.4 gfd (4 l/mh) NaOCl ^d 2.4 gfd (4 l/mh) NaOCl or Citric Acid ^d

† -Depends on temperature and application.

a -For a maximum of 2 hours.

b- Maximum chemical tolerance for estimated life span of membrane.

c -In membrane tank at steady state for municipal wastewater.

d- Refer to operating manual for chemical concentrations and cleaning frequencies.

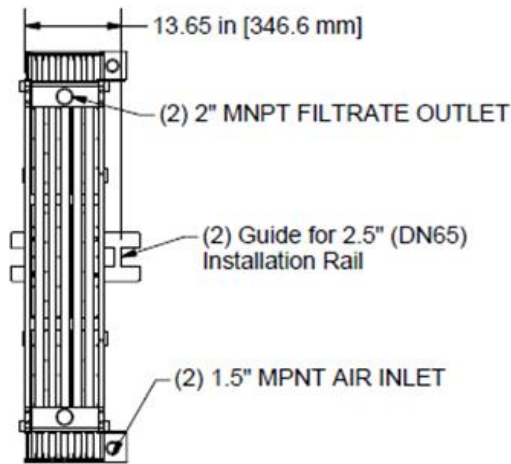
Hydranautics believes that the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses.

Hydranautics Corporate office

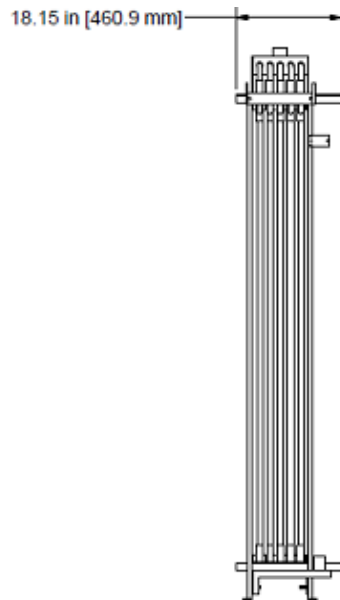
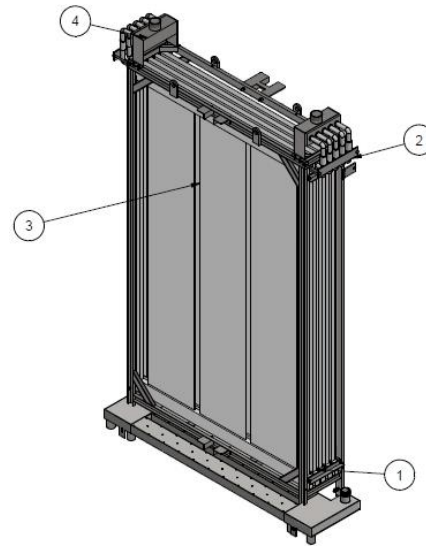
401 Jones Road, Oceanside, CA 92058, USA Toll Free: +1-800-CPA-PURE Tel: +1-760-901-2500 Fax: +1-760-901-2578

Web: www.membranes.com Email: hy-info@nitto.com

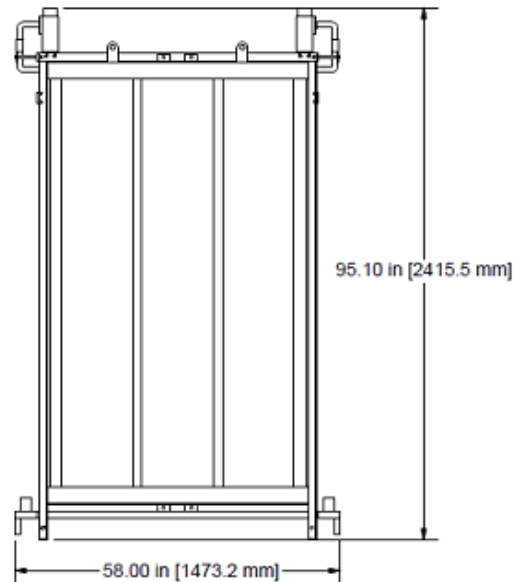
Top View



Isometric View



Side View



Front View

HYDRAsub-MBR Parts List to Order			200m ² w/ HSME40
Item #	Qty	Part Number	Description
1	1	HSMC200-ES*	HYDRAsub Cage SS304
2	10	HSA25	HYDRAsub Filtrate Adapter
3	5	HSME40	HYDRAsub Element
4	0	HSP	HYDRAsub Plug

Note: Cage is made of 304 or 316 stainless steel. Connections are in English units. For more detailed drawings, contact Hydranautics.

*SS316 Cage part number – HSMC200-ES-316

2/6/2024

Hydranautics Corporate office

401 Jones Road, Oceanside, CA 92058, USA Toll Free: +1-800-CPA-PURE Tel: +1-760-901-2500 Fax: +1-760-901-2578

Web: www.membranes.com Email: hy-info@nitto.com