



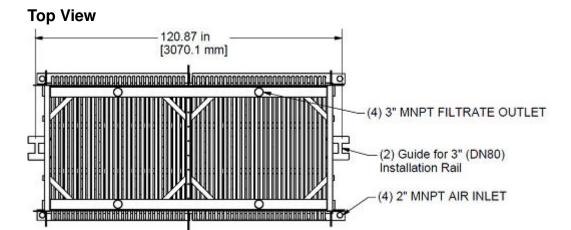
Submerged Ultrafiltration Membrane Module

	HYDRAsub [™] MAX- MBR	HSMM2400-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 60 (40 m ² each) 25824 ft ² (2400 m ²) (4)- 3" MNPT (4)- 2" MNPT (2)- To fit 3" pipe 3636 lbs (1652 kg) 5634 lbs (2555 kg)
Operating Specifications	Maximum Transmembrane Pressure (Vacuum):-6 psig (-0.41 bar)Maximum Backwash Pressure :2 psig (0.14 bar)Maximum Instantaneous Chlorine Concentration:5,000 ppmaMaximum Chlorine Tolerance:742,000 ppm-hrsbMLSS Range:8,000 - 12,000 mg/L°Operating Temperature Range:41 - 104°F (5 - 40° C)Feed Water pH Range:6.0 - 8.0Cleaning pH Range:1.0 - 11.0Operating Mode: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 lmh) 30 gfd (51 lmh) 2.4 gfd (4 lmh) NaOCl ^d 2.4 gfd (4 lmh) NaOCl or Citric Acid ^d

 \dagger -Depends on temperature and application a -For a maximum of 2 hours

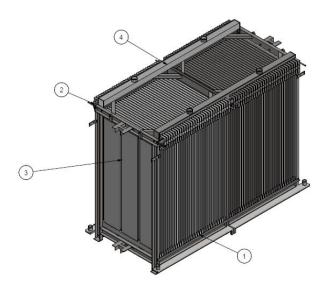
b- Maximum chemical tolerance for estimated life span of membrane
c - In membrane tank at steady state for municipal wastewater
d- Refer to operating manual for chemical concentrations and cleaning frequencies

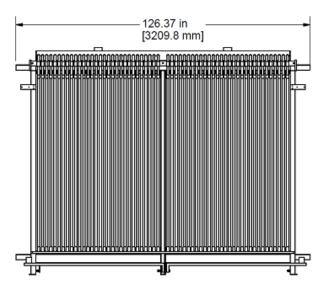
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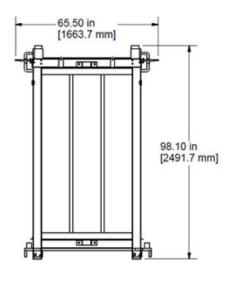
Isometric View

Side View





Front View



HYDRAsub-MBR Parts List to Order 2400m ² w/ HSME40				
Item #	Qty	Part Number	Description	
1	1	HSMC2400-ES*	HYDRAsub Cage SS304	
2	120	HSA25	HYDRAsub Filtrate Adapter	
3	60	HSME40	HYDRAsub Element	
4	0	HSP	HYDRAsub Plug	

Note: Cage is made of stainless steel 304. Connections are in English units. *SS316 Cage part number – HSMC2400-ES-316

For more detailed drawings, contact Hydranautics.

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https://aquaanalytic.ae/

+31 715 69 01 51

Minfo@aquaanalytic.ae