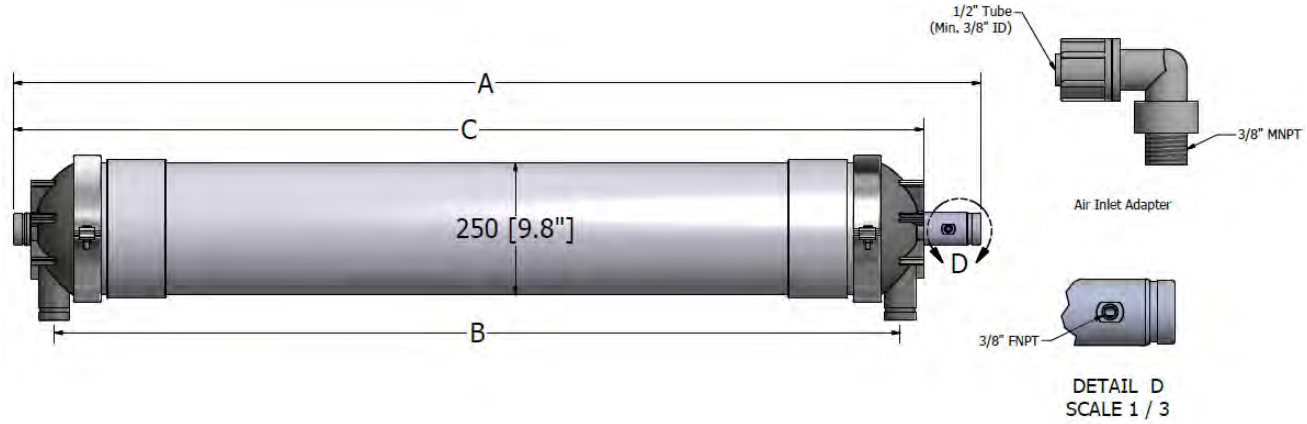
Nitto

HYDRANAUTICS
Nitto Group Company

Capillary Ultrafiltration Module — HYDRAcap® MAX 60

Performance†	Filtrate Flow:	11.7 – 37.9 gpm (2.7 – 8.6 m^3/h)
	Filtrate Turbidity:	≤ 0.10 NTU
	Bacteria removal:	≥ 4 log
Type	Configuration:	Capillary Ultrafiltration Module
	Membrane Polymer:	PVDF
	Nominal Membrane Area:	840 ft^2 (78 m^2)
	Fiber Dimensions:	ID 0.024" (0.6 mm), OD 0.047" (1.2 mm)
	Pore size:	0.08 micron
Application Data‡	Typical Filtrate Flux Range:	20 – 65 gfd (34 – 110 l/m^2/h)
	Maximum Applied Feed Pressure:	73 psig (5.0 bar)*
	Maximum Transmembrane Pressure	30 psig (2.0 bar)
	Instantaneous Chlorine Tolerance:	5000 ppm**
	Maximum Chlorine Exposure:	750,000 ppm-hrs
	Maximum Feed Turbidity:	300 NTU***
	Maximum Operating Temperature:	104 °F (40 °C)
	pH Operating Range:	4.0 – 10.0
	Cleaning pH Range:	1.0 – 13.0
	Operating Mode:	Outside to Inside Filtration Dead End or Cross flow mode
Typical Process Conditions		
	Air Scour Rate:	7.3 – 9.1 acfm (12.3 – 15.4 m^3/h)
	Air Scour Duration:	120 – 240 seconds
	Air Scour Frequency:	Once every 20 – 60 minutes
	Maintenance Clean Frequency:	1 – 3 times per day
	Maintenance Clean Duration:	20 – 30 minutes
	Disinfection Chemicals:	NaOCl, ClO_2 or NH_2Cl
	Cleaning Chemicals:	NaOH, HCl, H_2SO_4 or Citric Acid



A, inches (mm)	B, inches (mm)	C, inches (mm)	Pipe connections	Dry Weight	Wet Weight
72.15 (1832.6)	63.11 (1602.9)	67.90 (1724.7)	2" Victaulic	115 lbs (52 kg)	220 lbs (100 kg)

Certifications: **NSF61**

* At 68°F (20°C).

** For 60 minutes or less.

*** Higher values can be treated. Consult Hydranautics' technical staff.

† Typical module performance for most feedwaters.

‡ The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Notice: Hydranautics also offers HYDRAcap® MAX 60-NON, which is a dummy module with no potting or fiber.

 1/15/14