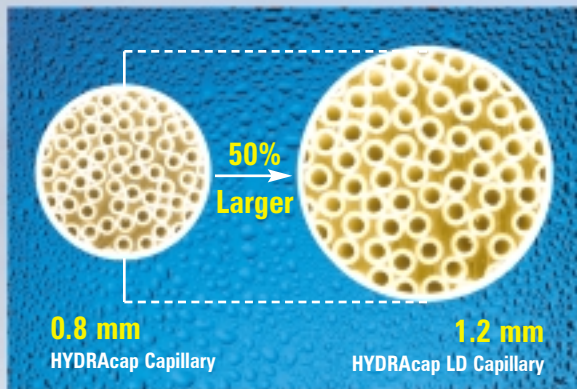


HYDRAcap[®] LD



50% Larger Diameter, 100% HYDRAcap Technology

The new 1.2mm HYDRAcap LD makes Hydranautics' low-fouling ultrafiltration technology available for an even wider range of applications than ever before. Specifically designed to treat higher turbidity waters, the new HYDRAcap LD targets EPA guidelines for reclaiming backwash waters with higher recoveries, while using less energy than smaller diameter capillary fibers. Now users with water sources containing higher solids have the flexibility to select from two capillary diameters for greater than 5-log removal of viruses and other pathogens.

Put HYDRAcap LD to the test for your most demanding industrial or municipal surface and wastewater applications and enjoy significantly better filtrate quality, with 100% removal of colloidal material greater than 0.1 micron.

High Performance Ultrafiltration

- 50 % larger capillary diameter for a broader spectrum of high-fouling applications
- Designed to meet new EPA Backwash Guidelines
- Superior treatment for a wider range of surface and wastewater applications



HYDRANAUTICS

A Nitto Denko Corporation

www.membranes.com



HYDRAcap[®] LD Specifications

Type

ConfigurationCapillary (Inside-out)
 Membrane PolymerHydrophilic polyether sulfone
 MWCO, Daltons nominal150,000
 Nominal Membrane area, ft² (m²)40-inch - 210 (19.5)
60-inch - 325 (30)
 Capillary ID, inches (mm)0.047 (1.2)
 Capillary OD, inches (mm)0.80 (2.0)

Application Data

Typical Filtrate Flux Range, GFD (l/m²/hr) 35 - 85 (59 - 145)
 pH Range 2 - 13
 Instantaneous Chlorine Tolerance, PPM 100*
 Instantaneous Hydrogen Peroxide Tolerance, PPM 500*
 Operating ModeCross-flow or dead-end, backwashable
 Maximum Operating Temperature, °F (°C)104° (40°)
 Maximum Feed Pressure, psig (bar)73 (5)
 Transmembrane Pressure (TMP) range, psig (kPa) .. .4 - 22 (27 - 152)

*5 minutes or less.

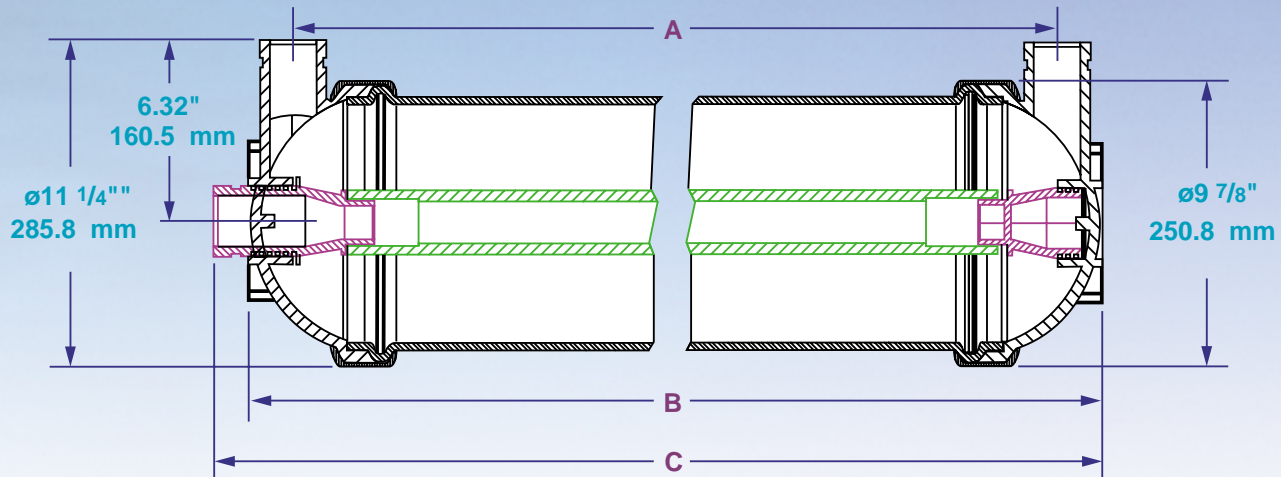
Typical Process Conditions

Operating Transmembrane Pressure (TMP):4 - 22 psig (27 - 152 kPa)
 Backwash Pressure:35 psig (242 kPa)
 Backwash Flux:175 - 200 gfd (298 - 340 l/m²/hr)
 Backwash Frequency:once every 15 - 60 minutes
 Backwash Duration:30 - 60 seconds
 Chemically EnhancedMaximum: same as backwash
 Backwash Frequency:Minimum: 1 - 2 times per day
 Chemically Enhanced Backwash Duration:1 - 10 minutes
 Disinfection Chemicals: ...NaOCl (hypochlorite)
or H₂O₂ (peroxide)
 Cleaning Frequency:once every 1 - 2 months
 Cleaning Chemicals:NaOCl + NaOH, Citric Acid

Module Length

	A*	B	C
HYDRAcap 40-LD	.43" (109.2 cm)	.46 1/8" (117.2 cm)	.47 1/4" (120.0 cm)
HYDRAcap 60-LD	.63" (160.0 cm)	.66 1/8" (168.0 cm)	.67 1/4" (170.8 cm)

* ± 1/8"



Hydranautics Corporate: 401 Jones Road, Oceanside, CA 92054

Sales Offices Worldwide 1-800-CPA-PURE Phone: 760-901-2500 Fax: 760-901-2578

© Copyright 2001 Hydranautics All Rights Reserved For updated product information, contact Hydranautics. 1001/2K

