



HLP-4021 - DATA SHEET HYDRON LIGHT COMMERCIAL MEMBRANES



HYDRON Light Commercial Membrane Elements are a reliable alternative for your light commercial and small system membrane needs HYDRON Membranes are manufactured in a State-of-the-Art, ISO-9001-2000 certified automatic rolling facility, providing you with a precise and advanced membrane element that not only delivers an attractive cost to benefit ratio, but also gives you a membrane that has consistently of high quality and performance.

HYDRON Light Commercial Membrane Elements can be used in a variety of small size system applications, such as household water purification, laboratory, hydroponics, hospital, and many other applications where a reliable, performance membrane is needed.

MEMBRANE TYPE Polyamide Compound (533.4 mm) 99.7 mm) (19.1 mm) > TESTING CONDITIONS (19.1 mm) > Testing Pressure 150 psi (1.03 MPa) (10.34 bar) (26.7 mm) > Temperature of Testing Solution 77 °F (25 °C) > Concentration of Testing Solution (NaCl) 1500 ppm > pH Value of Testing Solution 7.5 > Recovery Rate of Single Membrane Element 8% EXTREME OPERATION CONDITIONS > Max. Working Pressure 600 psi (4.14 MPa) (41.4 bar) > Max. Feedwater Temperature 113 °F (45 °C) > Max. Feedwater SDI 5 > Single Membrane Max. Pressure Drop 15 psi (0.1 MPa) (1.03 bar) > Residual chlorine Concentration of Feedwater of Feedwater > pH Range of Feedwater				c 1
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(26.7 mm)	,	TESTING CONDITIONS		
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 Max. Feedwater Temperature Max. Feedwater Temperature Max. Feedwater SDI Single Membrane Max. Pressure Drop Residual chlorine Concentration of Feedwater Concentration An and the second second		EXTREME OPERATION CONDITIONS		
 Max. Feedwater SDI Single Membrane Max. Pressure Drop Residual chlorine Concentration of Feedwater Concentration 	B B	> Max. Working Pressure	600 psi	(4.14 MPa) (41.4 bar)
Single Membrane Max. Pressure Drop 15 psi (0.1 MPa) (1.03 bar) Residual chlorine Concentration of Feedwater		> Max. Feedwater Temperature	113°F	(45 °C)
Residual chlorine Concentration of Feedwater <0.1 ppm		> Max. Feedwater SDI	5	
of Feedwater <0.1 ppm		 Single Membrane Max. Pressure Drop 	15 psi	(0.1 MPa) (1.03 bar)
> pH Range of Feedwater			<0.1 ppm	
	SF.	> pH Range of Feedwater		

	during Continuous Operation	3~10	
;	PH Range of Feedwater		
	during Chemical Cleaning	2~12	
1	Max. Temperature for Continous		
	Operation above pH 10	95 °F	(35°C)

Model	Applied Pressure	Average Permeated Flow	Stable Rejection	Active Membrane
#	psi (bar)	gpd (m ³ /d)	Rate (%)	Area ft ² (m ²)
HLP-4021	150 (10.3)	1000 (3.8)	98.0	36 (3.34)

IMPORTANT INFORMATION

Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, HYDRON recommends removing residual free chlorine by pre treatment prior to membrane exposure. Any specific application must be limited within the extreme operating conditions. We strongly recommend you to refer to the latest edition of technology manual and design guide prepared by HYDRON Membrane Technology or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual, HYDRON Membrane Technology will assume no liability for all results. The permeate flow listed in the table is the average value. The permeate flow of single membrane element is within a tolerance not exceeding $\pm 20\%$ of nominal value. Discard the RO-filtered water produced during the first one hour after system start-up. During storage time and run time, it is strictly prohibited to dose any chemical medicament that may be harmful.

DISTRIBUTED BY:







A = 21"

B = 3.9"

C = 0.75"

D = 1.05"



This Membrane is Tested and Certified by NSF International against NSF / ANSI Standard 61 for material requirements only.

COMPONENT