

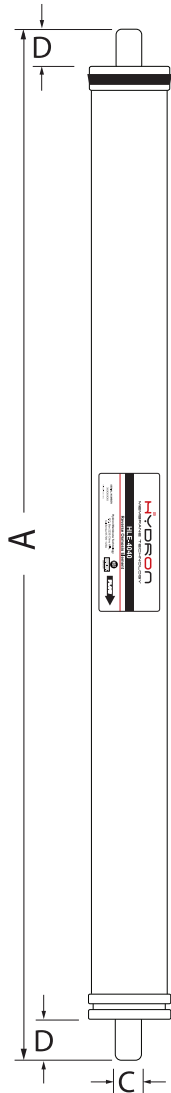


**HLE-4040 - DATA SHEET**  
HYDRON COMMERCIAL MEMBRANES

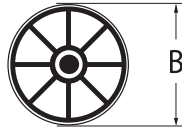


**HYDRON Commercial Membrane Elements** with their hard shell fiberglass exterior provide outstanding performance for commercial systems. HYDRON Membranes are manufactured in a State-of-the-Art, ISO-9001-2000 certified automatic rolling facility which provides you with a precise and advanced membrane element. HYDRON Membranes not only deliver an attractive cost to benefit ratio, but also gives you a membrane that has consistently high quality and performance.

**HYDRON Commercial Membrane Elements** can be used in a variety of applications, such as car wash, bottling, manufacturing, water stores, food processing, and many other applications where a reliable, performance membrane is needed.



- A** = 40" (1016 mm)
- B** = 3.9" (99.7 mm)
- C** = 0.75" (19.1 mm)
- D** = 1.05" (26.7 mm)



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

**COMPONENT**

**MEMBRANE TYPE** Polyamide Compound

**TESTING CONDITIONS**

- > Testing Pressure **100 psi (0.69 MPa) (6.9 bar)**
- > Temperature of Testing Solution **77 °F (25 °C)**
- > Concentration of Testing Solution (NaCl) **500 ppm**
- > pH Value of Testing Solution **7.5**
- > Recovery Rate of Single Membrane Element **15%**

**EXTREME OPERATION CONDITIONS**

- > Max. Working Pressure **600 psi (4.14 MPa) (41.4 bar)**
- > Max. Feedwater Flow **16 gpm (3.6 m<sup>3</sup>/hr)**
- > 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 **<0.1 ppm**
- > pH Range of Feedwater during Continuous Operation **3~10**
- > pH Range of Feedwater during Chemical Cleaning **2~12**

Model #	Applied Pressure psi (bar)	Average Permeated Flow gpd (m <sup>3</sup> /d)	Stable Rejection Rate (%)	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Max. Feed Temp. °F (°C)
<b>HLE-4040</b>	100 (6.9)	2800 (10.6)	<b>98.0</b>	90 (8.4)	113 (45)

**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 ±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.

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