



## JHM LP8040-440

LP (low pressure) series of aromatic polyamide compound membrane element developed by JHM has the properties of low-pressure operation, high permeate flow and excellent desalination and is applicable to desalination of brackish water. Besides, it is particularly applicable to fabrication of high-purity water for electronic industry and electric power industry owing to its excellent performance in removing soluble salts, TOC, SiO<sub>2</sub>, etc.

Being suitable for desalting such water sources as surface water (NaCl ≤10000ppm), underground water, tap water and municipal water, etc., LP series is mainly applicable to treatment of various industrial water such as industrial-purpose pure water, boiler water replenishment in power plants, and can be also applied to such brackish water applications, such as treatment of high-concentration saline waste water and production of beverage-purpose water.

Module	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Average Permeate GPD (m <sup>3</sup> /d)	Stable rejection Rate (%)	Min rejection Rate (%)
JHM LP8040-440	440 (41)	12650 (48)	99.7	99.6

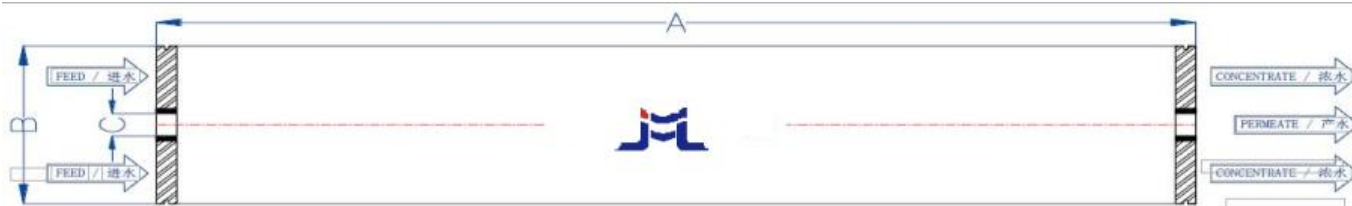
### Test conditions:

Testing pressure	225 Psi (1.55Mpa)
Testing solution temperature	25°C
Concentration of testing solution	2000ppm
pH value of testing solution	7.0±0.5
Recovery rate of Single element	15%
Feed spacer:	28mil (0.7mm)

### Operation limits & conditions:

Max. Working Pressure	600psi (4.14Mpa)
Max. Temperature of Feed water	45°C
Max. Volume of Feed water	75gpm (17 m <sup>3</sup> /h)
Max. Feed water SDI <sub>15</sub>	5
Max. Feed water Turbidity	1.0NTU
pH Range of Feed water during Continuous Operation	2~11
pH Range of Feed water during Chemical Cleaning	1~13
Residual Chlorine Concentration of Feed Water	<0.1ppm
Max. Pressure Drop of Single Membrane Element	15psi (0.1Mpa)
Max. Pressure Drop of Single Pressure Vessel with Six elements	50psi (0.34Mpa)

Size of Membrane Element: 1.0 inch = 25.4 mm



A/mm(inch)	B/mm(inch)	C/mm(inch)
1016(40)	200(7.89)	29(1.125)



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**Notice:**

1. All data and information provided in this manual have been obtained from long-term experiment by JHM. We confirm the effective and accuracy of the data. assumes no liability for any aftermath caused by user's failure in abiding by the conditions specified in this manual in use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide the designed use and maintenance requirements and keep relevant records.
  2. The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding  $\pm 15\%$  of the nominal value.
  3. All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes.
  4. The membrane used should remain wet after being used; In long term suspension, to prevent the breeding of microbes, soak the membrane elements with protective solution is highly recommended, the solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (foodstuff-purpose).
  5. Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90 minutes when first use (Permeate volume no less than 50% of designed volume). Discard all the permeate and condensed water produced during the first one hour after system start-up.
  6. During storage time and operation period, it is strictly prohibited to added any chemical medicament that may be harmful to membrane elements. In case of any violation in adding chemical medicament, JHM assumes no liability for any damages incurred.
  7. Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice the website of JHM for any updates of the product.
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