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VONTRON INDUSTRIAL MEMBRANE ELEMENTS

LP SERIES RO MEMBRANE ELEMENTS

Brief Introduction

The LP (low pressure) series of aromatic polyamide compound membrane elements developed by Vontron Technology Co. have the properties of low-pressure operation, high permeate flow and excellent desalination and are applicable to desalination of brackish water. Besides, it is particularly suitable for the production of high-purity water for the electronic industry and electric power industry owing to its excellent performance in removing soluble salts, TOC, SiO₂, etc.

Specifications

Model	Active Membrane Area ft²(m²)	Average Permeated Flow GPD (m ³ /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
LP21-8040	365(33.9)	9600(36.3)	99.5	99.3
LP22-8040	400(37.0)	10500(39.7)	99.5	99.3
LP21-4040	85(7.9)	2400(9.1)	99.5	99.3

Temperature of Testing Solution25 °C Concentration of Testing Solution (NaCl)...... 2000ppm

pH Value of Testing Solution7.5 Recovery Rate of Single Membrane Element....15%

Extreme Operation Conditions

Max. Working Pressure	600psi(4.14Mpa) 75gpm (17 m³/h) (8040) 16gpm (3.6 m³/h) (4040)
Max. Feed water Temperature	45℃
Max. Feed water SDI	5
Residual chlorine Concentration of Feed water	<0.1ppm

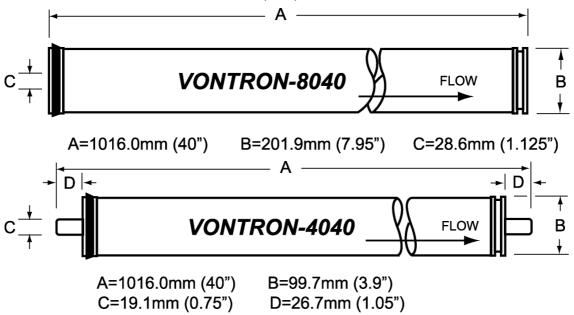
pH Range of Feed water during Continuous Operation....3~10

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pH Range of Feed water during Chemical Cleaning......2~12 Max. Pressure Drop of Single Membrane Element...... 15psi(0.1Mpa)

Dimensions of Membrane Element

All dimensions are shown in: millimeter (inch)



Important Information

- 1. Any specific application must be limited within the extreme operating conditions. We strongly recommend you to refer to the latest edition of the technology manual and design guide prepared by Vontron Technology Co., or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual, Vontron Technology Co. will assume no liability for the results.
- 2. 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 the nominal value.
- 3. All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with the solution of 1.0% sodium hydrogen sulfite (an antifreeze solution of 10% propanediol required in winter) for storage purposes, then sealed with plastic bag in vacuum, and further packed in carton boxes. In order to prevent the breeding of microbes during short-time storage, transportation and system standby, we recommend you to soak the membrane elements with protective solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (food grade quality).
- 4. Discard the RO-filtered water produced during the first one hour after system start-up.

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During storage time and run time, it is strictly prohibited to dose any chemical that may be harmful to the membrane elements. In case of any violation in using this kind of chemical, Vontron Technology Co. assumes no liability for any outcome incurred.

Points of Attention

- 1. All data and information provided have been obtained from long-term evaluation by Vontron Technology Co. This data and information is accurate and effective. Vontron Technology Co. assumes no liability for any consequences caused by user's failure in abiding by the conditions specified in this manual for the use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide by the requirements for design, use and maintenance of products and keep relevant records.
- 2. Along with technical development and product review, the information contained herein will be subject to modification without prior notification. Please keep an eye on the website of Vontron Technology Co. for any product updates.