

2-1-1 SHANGYUAN® Residential Membrane Elements

Brief Introduction

The 1812-sized and 2012-sized residential membrane elements are mainly applicable to various small-sized systems, such as household water purifier and other water purifying devices in hospital and laboratory.

Being suitable for the desalting treatment of those water sources with salt concentration lower than 2000 ppm, such as surface water, underground water, tap water and municipal water, etc., ULP series are mainly applicable to numerous applications of various sizes, such as pure water, boiler water replenishment, foodstuff processing, and pharmaceutical production, etc.

Specifications and Major Properties

Model	Average Permeated Flow GPD (m ³ /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
TW1812-75HR	75(0.28)	99.0	97.0
TW-1812-75	75(0.28)	97.0	95.0
TW-1812-100HR	100(0.38)	99.0	97.0
TW-2012-100	100(0.38)	97.5	96.0
TW-2012-150	150(0.57)	97.5	96.0

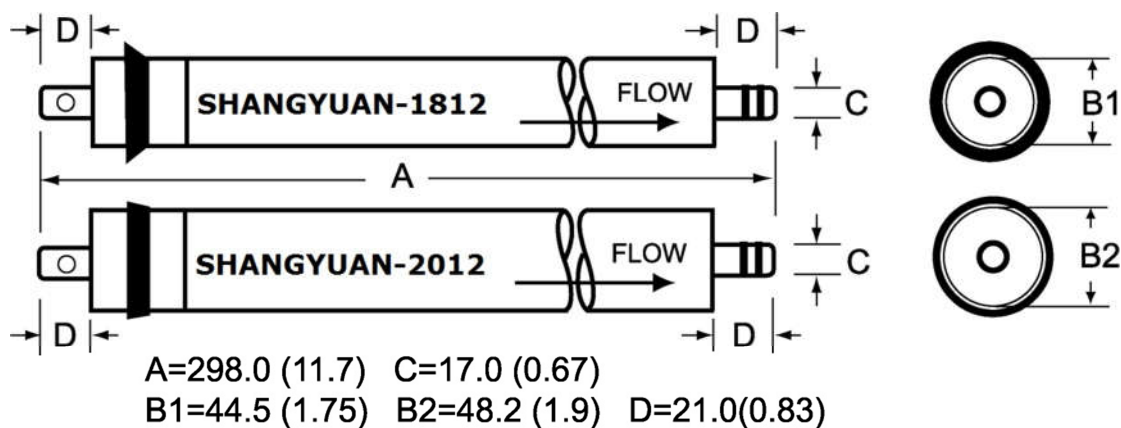
Testing Conditions: Testing Pressure.....60 psi (0.41Mpa)
Testing Pressure for 150G.....72.5psi (0.5Mpa)
Temperature of Testing Solution25 °C
Concentration of Testing Solution (NaCl)..... 250ppm
pH Value of Testing Solution7.5
Recovery Rate of Single Membrane Element.....15%

Extreme Operation Conditions

Max. Working Pressure..... 300psi(2.07Mpa)
Max. Feed water Temperature..... 45°C
Max. Feed water SDI..... 5
Residual chlorine Concentration of Feed water.....<0.1ppm
pH Range of Feed water during Continuous Operation..... 3~10
pH Range of Feed water during Chemical Cleaning.....2~12
Max. Pressure Drop of Single Membrane Element.....10psi (0.07Mpa)

Dimensions of Membrane Element

All dimensions are shown in: millimeter (inch)



Important Information

1. 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 purpose, 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 (foodstuff-purpose).
2. The permeate flow listed in the table is the average value. The permeate flow of single membrane element is with a tolerance of $\pm 15\%$.
3. Discard the RO-filtered water produced during the first one hour after system start-up.
4. During storage time and run time, it is strictly prohibited to dose any chemical medicament that may be harmful to membrane elements.