

## Scinor® Industrial Membrane Elements SRT ULBG/T-33x Series

### Brief Introduction

The **ULBG/T-33x** series are aromatic polyamide RO membrane elements, which are newly developed by Scinor Membrane Technology Co., Ltd. and can be used in desalination of brackish water. It is characterized by ultra low-pressure operation, higher water productivity and excellent desalting property. Moreover, we make special treatment to the surface of membrane with unique technology to change its electrical charge and smoothness, increasing the hydrophilicity of membrane surface, thus decreasing the adhesion of contamination and microbe so as to lessen the pollution and extend the service life of elements. It also operates under approximately 2 thirds of the operating pressure of regular low-pressure composite membrane, and achieves a salt rejection rate of up to 99.0%, which can decrease the investment costs for such relevant facilities as pump, piping, and container, etc. and the operating cost for the RO system, thus increasing the economic efficiency.

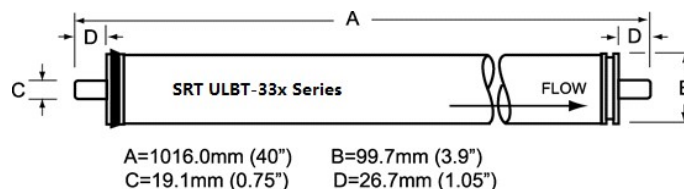
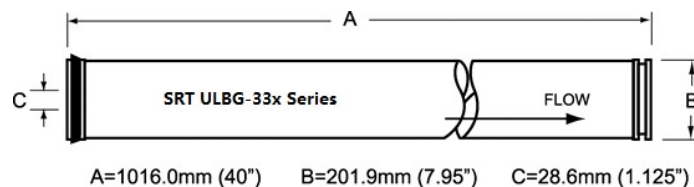
The **ULBG/T-33x** series are applicable to the desalinating treatment of those water resources with salt concentration less than 10000ppm, such as surface water, underground water, tap water and municipal water. They are mainly used for treatment of various industrial water, such as various scales of industrial intermediate-pass water reclamation, boiler water replenishment in power plant, and are especially applicable to the treatment of those water with slight organic pollutants, such as industrial wastewater, municipal sewage and other slightly contaminated water.

### Specifications and Major Properties

Model	Average Permeated Flow GPD (m <sup>3</sup> /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
SRT ULBG-C33/365x	10000(37.9)	99.3	98.5
SRT ULBG-C33/400x	11000(41.6)	99.3	98.5
SRT ULBT-C33/80x	2500(9.5)	99.0	98.5

Testing Conditions:  
 Testing Pressure.....150 psi (1.03Mpa)  
 Temperature of Testing Solution .....25 °C  
 Concentration of Testing Solution (NaCl)..... 1500ppm  
 pH Value of Testing Solution .....7.5  
 Recovery Rate of Single Membrane Element....15%

### Dimensions of Membrane Element



All dimensions are shown in: millimeter (inch)

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### Extreme Operation Conditions

Max. Working Pressure	600 psi (4.14 Mpa)
Max. Feed water Flow	75 gpm (17 m <sup>3</sup> /h) (ULBG) 16 gpm (3.6 m <sup>3</sup> /h) (ULBT)
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	15 psi (0.1 Mpa)

### Important Information

- 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 Scinor Membrane Technology Co., Ltd., or consult experts proficient in membrane technology. In case the customer fails to follow the operating conditions as specified in this manual, Scinor Membrane Technology Co., Ltd. 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 the nominal value.
- 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).
- 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 to membrane elements. In case of any violation in using this kind of chemical medicament, Scinor Membrane Technology Co., Ltd. assumes no liability for any outcome incurred here from.

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