

## Scinor® Seawater RO Membrane Elements SRT SWRO Series

### Brief Introduction

The **SRT SWRO Series** of aromatic polyamide compound membrane element are developed by Scinor Membrane Technology Co., Ltd. By optimizing the performance of the membrane and the structure of elements, **SRT SWRO Series** has increased the flowrate, so as to reduce the quantity installed under the same permeate flowrate requirement. Therefore, it has the properties of low-pressure operation, lower equipment investment and excellent and stable rejection rate of salts. In particular, the high rejection rate ensures that potable water can be obtained from seawater through one-stage reverse osmosis.

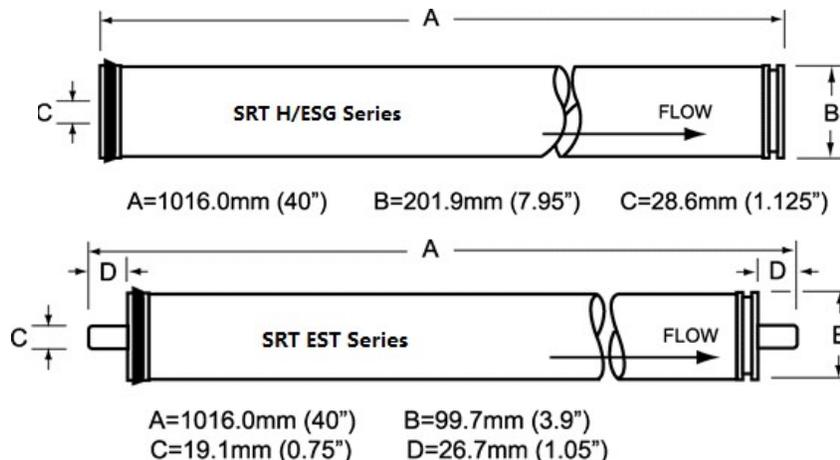
Being suitable for desalting such water sources as seawater and brackish water with high TDS, **SRT EBG/T series** is mainly applicable to treatment of seawater and high TDS brackish water desalination plant, various industrial water such as boiler water replenishment in power plant, and can be also applied to such Wastewater reuse, food and medicine and other high value-added material concentration recovery and other applications.

### Specifications and Major Properties

Model	Average Permeated Flow GPD (m <sup>3</sup> /d)	Stable Rejection Rate (%)	Minimum Rejection Rate (%)
SRT HSG-C30/400	7500(28.4)	99.85	99.6
SRT ESG-C30/400	9000(34.1)	99.8	99.6
SRT EST-C30/80	1400(5.3)	99.7	99.5

Testing Conditions:      Testing Pressure.....800 psi (5.5Mpa)  
                                   Temperature of Testing Solution .....25 °C  
                                   Concentration of Testing Solution (NaCl)..... 32000ppm  
                                   pH Value of Testing Solution .....7.5  
                                   Recovery Rate of Single Membrane Element...8%

### Dimensions of Membrane Element



All dimensions are shown in: millimeter (inch)

## Scinor® Seawater RO Membrane Elements SRT SWRO Series

### Extreme Operation Conditions

Max. Working Pressure	1000 psi (6.9 Mpa)
Max. Feed water Flow	75 gpm (17 m <sup>3</sup> /h) (H/EBG) 16 gpm (3.6 m <sup>3</sup> /h) (EBT)
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.
- 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.

Beijing Scinor Membrane Technology Co., Ltd.

F/8 Xueyuan International Tower  
1 Zhichun Road, Haidian District  
Beijing, 100083  
P.R China

Tel: +86 (10) 6975 6503  
Fax: +86 (10) 6975 2006  
Email: [info@scinormem.com](mailto:info@scinormem.com)  
Website: [www.scinormem.com](http://www.scinormem.com)

The information provided in this bulletin contains merely general descriptions to illustrate product characteristics or parameter. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use. Scinor assumes no obligation or liability for the information in this document if applied data come out deviations based on the mentioned above.