



ENGINEERED FOR **WATER.**  
**BUILT FOR** PERFORMANCE.

[www.hitechmembranes.com](http://www.hitechmembranes.com)

## PIONEER IN WATER TECHNOLOGY

Hi-Tech Membranes Co., Ltd. is a leading global manufacturer of high-performance RO membrane elements, with over three decades of industry experience and two ISO-certified production facilities.

Manufacturing is carried out using automated precision rolling and controlled production processes, with temperature-controlled storage to maintain consistency and quality throughout production.

Each membrane element undergoes 100% structural integrity testing and is supported by full traceability from flat sheet roll to pallet level.

**13,000 m<sup>2</sup> (140,000 sq ft)**  
Combined Facility Area

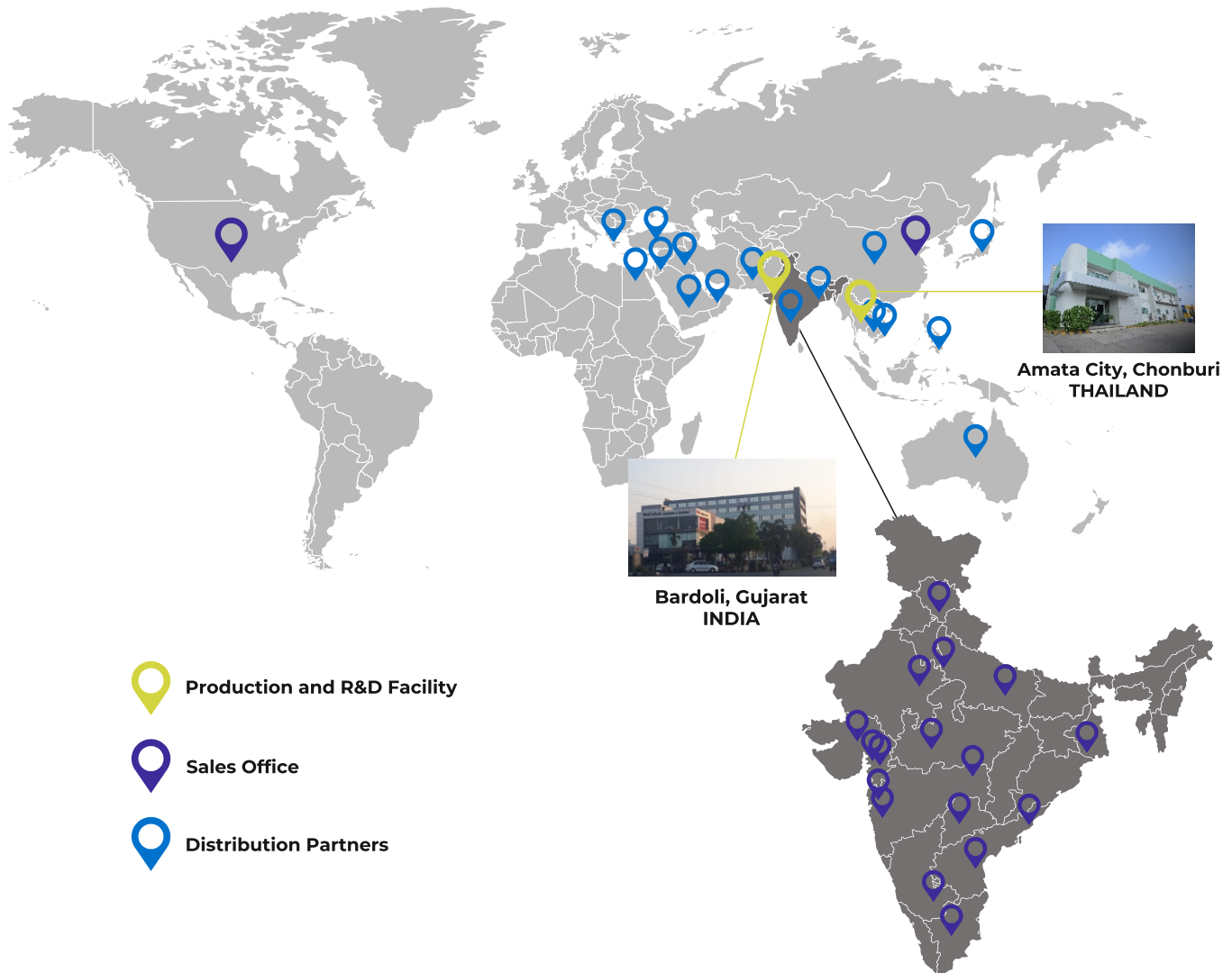
**2.5M+**  
Residential Units / Year

**400,000+**  
Commercial & Industrial Units / Year

**20M+ m<sup>2</sup> (215M+ sq ft)**  
Annual Membrane Sheet Consumption



## GLOBAL FOOTPRINT



## CERTIFICATIONS

### Thailand Facility



### India Facility



## MANUFACTURING PARTNERSHIPS BUILT TO SCALE

From prototype development to high-volume production, Hi-Tech Membranes supports OEMs, brands, and technology companies with precision manufacturing, consistent performance, and scalable supply.



### PRODUCT DEVELOPMENT & ENGINEERING

Application-driven membrane selection, prototyping, and performance optimization based on real operating conditions



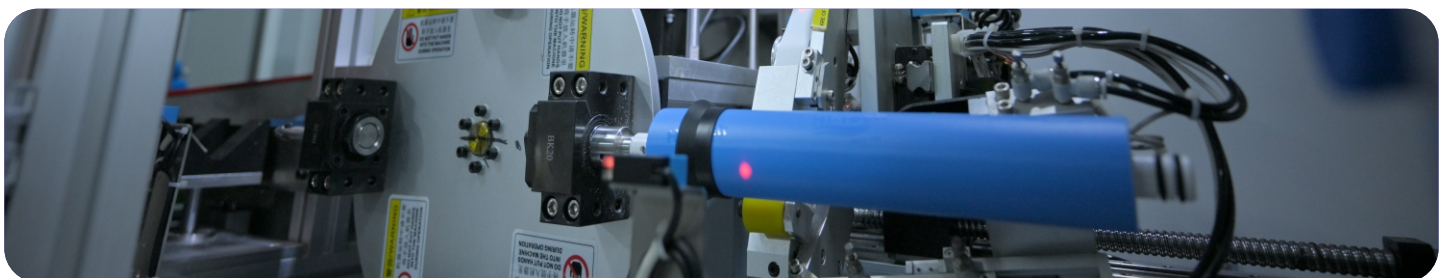
### OEM & PRIVATE LABEL

Standard and custom membrane elements with flexible branding and consistent batch-to-batch performance.



### SCALABLE GLOBAL SUPPLY

Flexible production, reliable lead times, and global supply for high-volume OEM programs.



## HI-TECH MEMBRANES RO SOLUTIONS

A complete range of RO membrane designed for diverse applications.



### RESIDENTIAL & LIGHT COMMERCIAL

Compact membrane elements designed for drinking water systems and low TDS applications.



### COMMERCIAL SYSTEMS

Optimised for medium-capacity systems requiring consistent flow and stable rejection.



### INDUSTRIAL APPLICATIONS

High-performance membranes engineered for large-scale process water and wastewater treatment.

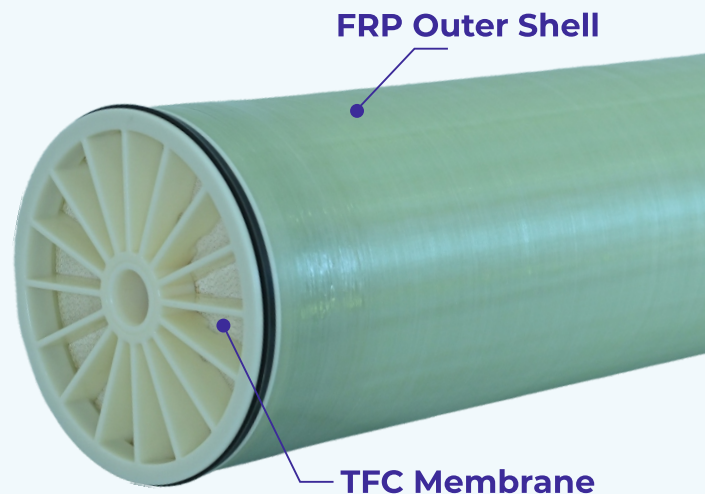


### SEAWATER DESALINATION

Advanced membranes designed for high salinity feed water with high rejection and durability.

## ENGINEERED FOR LEADING INDUSTRY SPECIFICATIONS

Cross-linked polyamide thin-film composite (TFC) membranes in spiral-wound configuration, reinforced with FRP outer shell for structural durability.



### KEY FEATURES



100% vacuum decay tested for structural integrity



Compatible with standard industry housings



Dry-shipped for extended shelf life



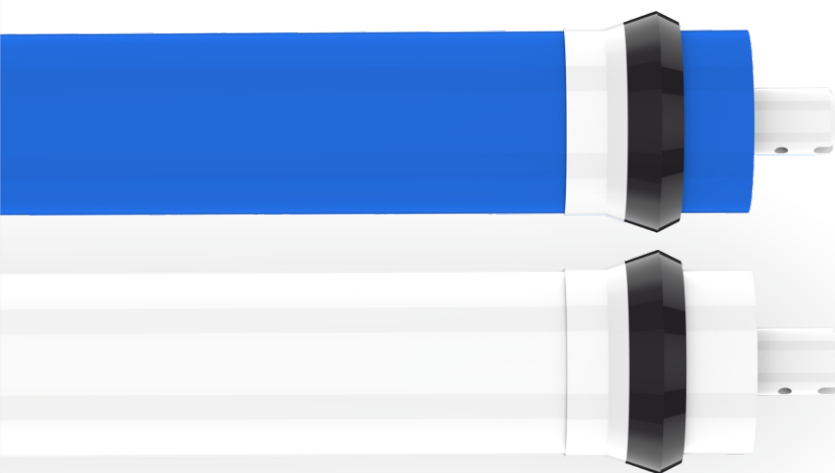
Full traceability from membrane sheet to finished element

## RESIDENTIAL & LIGHT COMMERCIAL RO

| Model                        |             | Operating Pressure<br>psi (bar) | Permeate Flow<br>GPD (LPD) | Stabilized Salt Rejection<br>% |
|------------------------------|-------------|---------------------------------|----------------------------|--------------------------------|
| <b>Standard for home RO*</b> |             |                                 |                            |                                |
| RE-1812-35                   | -           | 60 (4.1)                        | 35 (132)                   | 97-98                          |
| RE-1812-50                   | -           | 60 (4.1)                        | 50 (189)                   | 97-98                          |
| RE-1812-75                   | ES-1812-75  | 70 (4.8)                        | 75 (284)                   | 97-98                          |
| RE-2012-80                   | ES-2012-80  | 70 (4.8)                        | 80 (303)                   | 97-98                          |
| RE-2012-100                  | ES-2012-100 | 70 (4.8)                        | 100 (379)                  | 97-98                          |
| RE-2012-150                  | ES-2012-150 | 70 (4.8)                        | 150 (568)                  | 97-98                          |
| RE-3012-200                  | ES-2012-200 | 70 (4.8)                        | 200 (757)                  | 97-98                          |
| RE-3012-300                  | ES-3012-300 | 70 (4.8)                        | 300 (1136)                 | 97-98                          |
| RE-3012-400                  | ES-3012-400 | 70 (4.8)                        | 400 (1514)                 | 97-98                          |
| RE-3013-400                  | ES-3013-400 | 70 (4.8)                        | 400 (1514)                 | 97-98                          |
| RE-3012-500                  | ES-3012-500 | 75 (5.2)                        | 500 (1893)                 | 97-98                          |
| RE-3013-500                  | ES-3013-500 | 75 (5.2)                        | 500 (1893)                 | 97-98                          |
| RE-3012-600                  | ES-3012-600 | 75 (5.2)                        | 600 (2271)                 | 97-98                          |
| RE-3013-600                  | ES-3013-600 | 75 (5.2)                        | 600 (2271)                 | 97-98                          |

**Testing conditions:** 250 ppm NaCl, 25°C (77°F), 60-80 psi (4.1-5.5 bar), pH 7 (± 0.5), Recovery 15%

\*RE & ES series share identical specifications & construction; RE features blue tape wrap, while ES features white.



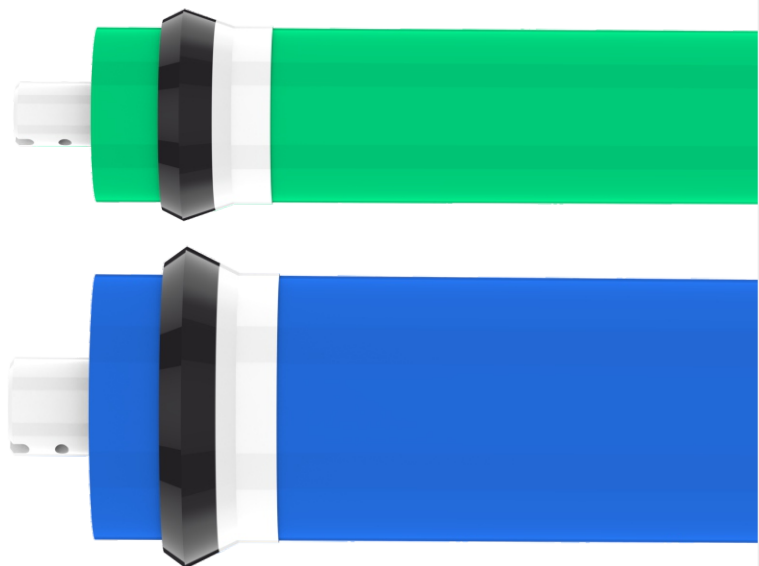
## RESIDENTIAL & LIGHT COMMERCIAL RO

| Model                                   | Operating Pressure<br>psi (bar) | Permeate Flow<br>GPD (LPD) | Stabilized Salt Rejection<br>% |
|-----------------------------------------|---------------------------------|----------------------------|--------------------------------|
| <b>High Rejection for High Feed TDS</b> |                                 |                            |                                |
| HR-1812-75                              | 70 (4.8)                        | 75 (284)                   | 98.5–99                        |
| HR-2012-80                              | 70 (4.8)                        | 80 (303)                   | 98.5–99                        |
| HR-2012-100                             | 70 (4.8)                        | 100 (379)                  | 98.5–99                        |
| HR-2012-150                             | 70 (4.8)                        | 150 (568)                  | 98.5–99                        |
| HR-2012-200                             | 70 (4.8)                        | 200 (757)                  | 98.5–99                        |
| HR-3012-300                             | 70 (4.8)                        | 300 (1136)                 | 98.5–99                        |
| HR-3012-400                             | 70 (4.8)                        | 400 (1514)                 | 98.5–99                        |
| HR-3013-400                             | 70 (4.8)                        | 400 (1514)                 | 98.5–99                        |

**Testing conditions:** 250 ppm NaCl, 25°C (77°F), 80 psi (5.5 bar), pH 7 (± 0.5), Recovery 15%

|                                                    |          |            |       |
|----------------------------------------------------|----------|------------|-------|
| <b>Tap Water for Light Commercial Applications</b> |          |            |       |
| TW-3012-300                                        | 70 (4.8) | 300 (1136) | 98–99 |
| TW-3012-400                                        | 70 (4.8) | 400 (1514) | 98–99 |
| TW-3013-400                                        | 70 (4.8) | 400 (1514) | 98–99 |
| TW-3012-600                                        | 75 (5.2) | 600 (2271) | 98–99 |
| TW-3013-600                                        | 75 (5.2) | 600 (2271) | 98–99 |

**Testing conditions:** 250 ppm NaCl, 25°C (77°F), 80 psi (5.5 bar), pH 7 (± 0.5), Recovery 15%



## COMMERCIAL RO

| Model                                         | Active Area<br>ft <sup>2</sup> (m <sup>2</sup> ) | Operating Pressure<br>psi (bar) | Permeate Flow<br>GPD (LPH) | Stabilized Salt Rejection<br>% |
|-----------------------------------------------|--------------------------------------------------|---------------------------------|----------------------------|--------------------------------|
| <b>Tap Water for Commercial Applications*</b> |                                                  |                                 |                            |                                |
| TW-34-2521                                    | 13 (1.2)                                         | 100 (6.9)                       | 318 (1203)                 | 99.5                           |
| TW-34-4021                                    | 36 (3.3)                                         | 100 (6.9)                       | 525 (1987)                 | 99.5                           |
| TW-34-2540                                    | 29 (2.7)                                         | 100 (6.9)                       | 758 (2869)                 | 99.5                           |
| TW-34-4025                                    | 50 (4.7)                                         | 100 (6.9)                       | 900 (3407)                 | 99.5                           |
| TW-34-4040                                    | 80 (7.5)                                         | 150 (10.3)                      | 2300 (8706)                | 99.5                           |

**Testing conditions:** 1500 ppm NaCl, 25°C (77°F), 150 psi (10.3 bar), pH 7 (± 0.5) Recovery 15%

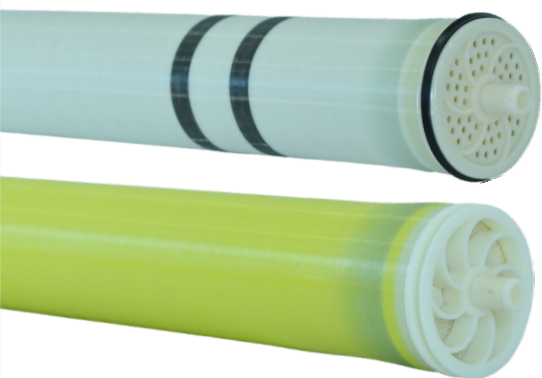
\*This model features yellow tape wrap.

|                                                   |          |            |             |      |
|---------------------------------------------------|----------|------------|-------------|------|
| <b>Brackish Water for Commercial Applications</b> |          |            |             |      |
| BW-34-2521                                        | 13 (1.2) | 100 (6.9)  | 318 (1203)  | 99.5 |
| BW-34-4021                                        | 36 (3.3) | 100 (6.9)  | 525 (1987)  | 99.5 |
| BW-34-2540                                        | 29 (2.7) | 100 (6.9)  | 758 (2869)  | 99.5 |
| BW-34-4025                                        | 50 (4.7) | 100 (6.9)  | 900 (3407)  | 99.5 |
| BW-34-4040                                        | 80 (7.5) | 150 (10.3) | 2400 (9085) | 99.5 |
| HMBW-34-4040                                      | 80 (7.5) | 150 (10.3) | 2500 (9464) | 99.7 |
| CP-34-4040                                        | 80 (7.5) | 150 (10.3) | 2400 (9085) | 99.5 |
| HCM2-34-4040                                      | 80 (7.5) | 150 (10.3) | 2400 (9085) | 98.5 |

**Testing conditions:** 1500-2000 ppm NaCl, 25°C (77°F), 150-225 psi (10.3-15.5 bar), pH 7 (± 0.5) Recovery 15%

|                   |          |           |              |      |
|-------------------|----------|-----------|--------------|------|
| <b>Low Energy</b> |          |           |              |      |
| BW-34-4040-LE     | 82 (7.7) | 100 (6.9) | 2600 (9842)  | 99.5 |
| HXLP-31-4040      | 85 (7.9) | 100 (6.9) | 2900 (10977) | 99.7 |
| ES-34-4040        | 80 (7.5) | 100 (6.9) | 2500 (9464)  | 99.3 |

**Testing conditions:** 1500 ppm NaCl, 25°C (77°F), 150 psi (10.3 bar), pH 7 (± 0.5) Recovery 15%



## INDUSTRIAL RO

| Model                                             | Active Area<br>ft <sup>2</sup> (m <sup>2</sup> ) | Permeate Flow<br>GPD (m <sup>3</sup> /d) | Stabilized Salt Rejection<br>% | Feed Spacer<br>mil |
|---------------------------------------------------|--------------------------------------------------|------------------------------------------|--------------------------------|--------------------|
| <b>Brackish Water for Industrial Applications</b> |                                                  |                                          |                                |                    |
| BW-28-365                                         | 365 (34.0)                                       | 9500 (35.96)                             | 99.5                           | 28                 |
| BW-34-365                                         | 365 (34.0)                                       | 9500 (35.96)                             | 99.5                           | 34                 |
| BW-28-400                                         | 400 (37.2)                                       | 10500 (39.74)                            | 99.5                           | 28                 |
| BW-34-400                                         | 400 (37.2)                                       | 10500 (39.74)                            | 99.5                           | 34                 |
| BW-28-440                                         | 440 (41.0)                                       | 11500 (43.53)                            | 99.5                           | 28                 |
| CP-34-8040                                        | 400 (37.2)                                       | 10500 (39.74)                            | 99.5                           | 34                 |
| HCM2-34-8040                                      | 400 (37.2)                                       | 11500 (43.53)                            | 98.5                           | 34                 |

**Operating Pressure:** 150 psi (10.3 bar)

**Testing conditions:** 2000 ppm NaCl, 25°C (77°F), 225 psi (15.5 bar), pH 7 (± 0.5)

|                                             |            |               |      |    |
|---------------------------------------------|------------|---------------|------|----|
| <b>High Performance / Fouling Resistant</b> |            |               |      |    |
| HMBW-28-400                                 | 400 (37.2) | 11500 (43.53) | 99.7 | 28 |
| HMBW-34-400                                 | 400 (37.2) | 11500 (43.53) | 99.7 | 34 |
| HMBW-28-400-FR                              | 400 (37.2) | 11500 (43.53) | 99.7 | 28 |
| HMBW-34-400-FR                              | 400 (37.2) | 11500 (43.53) | 99.7 | 34 |
| HMBW-28-440-FR                              | 440 (41.0) | 12650 (47.88) | 99.7 | 28 |

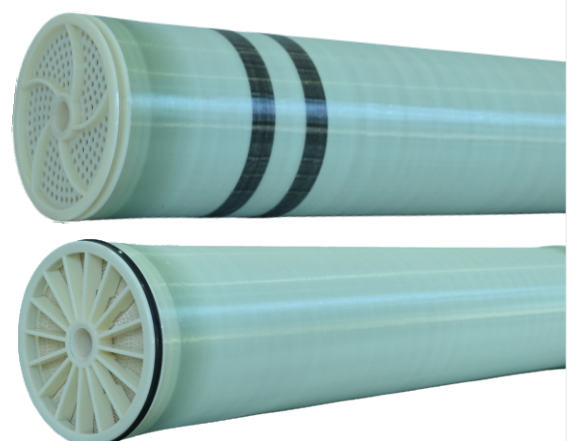
**Operating Pressure:** 150 psi (10.3 bar)

**Testing conditions:** 2000 ppm NaCl, 25°C (77°F), 225 psi (15.5 bar), pH 7 (± 0.5)

|                   |            |               |      |    |
|-------------------|------------|---------------|------|----|
| <b>Low Energy</b> |            |               |      |    |
| BW-28-400-LE      | 400 (37.2) | 11500 (43.53) | 99.5 | 28 |
| BW-28-440-LE      | 440 (41.0) | 13000 (49.21) | 99.5 | 28 |
| HXLP-28-8040      | 400 (37.2) | 13000 (49.21) | 99.7 | 28 |
| ES-34-8040        | 400 (37.2) | 12000 (45.42) | 99.3 | 34 |

**Operating Pressure:** 100 psi (6.9 bar)

**Testing conditions:** 1500 ppm NaCl, 25°C (77°F), 150 psi (10.3 bar), pH 7 (± 0.5)

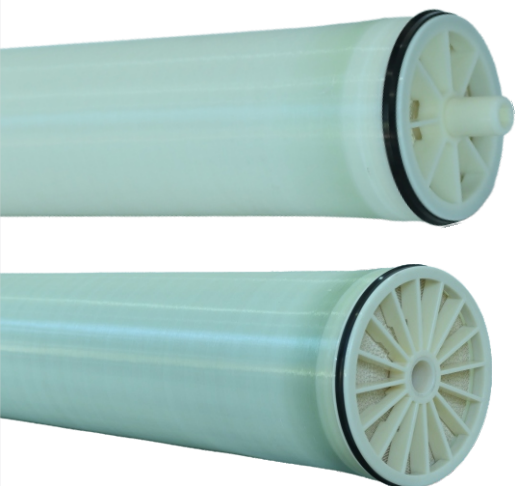


## SEAWATER RO

| Model                    | Active Area<br>ft <sup>2</sup> (m <sup>2</sup> ) | Permeate Flow<br>GPD (m <sup>3</sup> /d) | Stabilized Salt Rejection<br>% | Feed Spacer<br>mil |
|--------------------------|--------------------------------------------------|------------------------------------------|--------------------------------|--------------------|
| <b>Fouling Resistant</b> |                                                  |                                          |                                |                    |
| SW-34-4040-HRFR          | 82 (7.6)                                         | 1600 (6.06)                              | 99.8                           | 34                 |
| SW-34-400-HRFR           | 400 (37.2)                                       | 7400 (28.01)                             | 99.8                           | 34                 |
| <b>High Rejection</b>    |                                                  |                                          |                                |                    |
| SW-28-4040-HR            | 82 (7.6)                                         | 1320 (5.00)                              | 99.8                           | 28                 |
| SW-28-400-HR             | 400 (37.2)                                       | 6500 (24.61)                             | 99.8                           | 28                 |
| <b>Low Energy</b>        |                                                  |                                          |                                |                    |
| SW-28-2540-HRLE          | 28 (2.6)                                         | 680 (2.57)                               | 99.8                           | 28                 |
| <b>Extra Low Energy</b>  |                                                  |                                          |                                |                    |
| SW-28-4040-XLE           | 82 (7.6)                                         | 1660 (6.28)                              | 99.8                           | 28                 |
| SW-28-400-XLE            | 400 (37.2)                                       | 9000 (34.07)                             | 99.8                           | 28                 |
| SW-28-440-XLE            | 440 (81)                                         | 9750 (37)                                | 99.8                           | 28                 |

**Operating Pressure:** 800 psi (55.2 bar)

**Testing conditions:** 32000 ppm NaCl, 25°C (77°F), 800 psi (55.2 bar), pH 7 (± 1.0), Recovery 8%



## OUR JOURNEY IN WATER

**Over 3 decades of excellence in manufacturing, distribution, and engineering expertise.**

**1995**

Hi-Tech Sweet Water Technologies Pvt. Ltd., founded in India, emerging as a pioneer in India's RO industry.

**2004**

Expanded into RO components and spare parts, establishing regional distribution network.

**2006**

Scaled nationwide presence with 20+ regional sales offices across India.

**2009**

Established integrated manufacturing and R&D facility in Gujarat, India, enabling in-house production of membranes, filters, and system components.

**2015**

Expanded product portfolio to include pumps and complete system components.

**2016**

Established Hi-Tech Membranes Co., Ltd., a state-of-the-art rolling facility in Thailand, the first of its kind.

**2018**

Third-time winner of Water Digest's Best Membrane Manufacturer Award

**2019**

Expanded global footprint with exports across 20+ international markets.

**2025**

Implemented next-generation automated production systems to enhance scale, consistency, and manufacturing precision.





Data Sheets



Technical Comparison



Virtual Visit

#### THAILAND

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