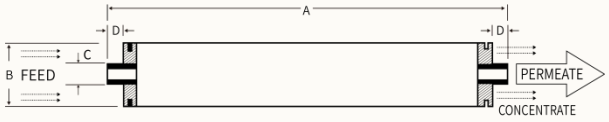
SW-4040-HRLE
Commercial Seawater Element

Overview

4040 commercial seawater desalination RO elements are specifically designed for seawater desalination applications. Utilizing a special membrane manufacturing process to reduce fouling deposition and risks, they maintain high salt rejection and withstand high-pressure requirements. They are widely used in desalination plants, large vessels, islands, and coastal industrial facilities.



A = 40.0″ (1,016 mm) B = 3.9″ (99 mm)
C = 0.75″ (19 mm) D = 1.05″ (26.7 mm)

Specification

Average Permeate Flow	Stable Salt Rejection	Min. Salt Rejection	Effective Membrane Area	Feed Spacer
7.6 m^3/d (2,000 gpd)	**99.8%**	**99.5%**	**8.7 m^2 (94 ft^2)**	**28 mil**

Test: 32,000 ppm NaCl · 800 psi (5.5 MPa) · 25°C · pH 7–8 · 8% recovery.

Note: The salt rejection rate generally needs to be tested after 24-48 hours of continuous operation, depending on the feed water quality and operating conditions;
The flow rate of a single membrane element may exhibit fluctuations, but within a range of ±15%.

Max. Operating Conditions

Pressure, psi(MPa)	**1,000 (6.89)**	Max. pressure drop for single element, psi(MPa)	**15 (0.1)**
Feed water flow, m^3/h	**3.6**	Temperature, °C(°F)	**45(113)**
Feed free chlorine tolerance, mg/l	**<0.1**	Feed Silt Density Index (15 min) SDI_{15}	**5**
pH range during continuously operation	**2-11**	pH range during chemical cleaning	**1-13**

Note 1: When the pH exceeds 10, the maximum temperature for continuous operation is 35°C.
Note 2: Under certain conditions, influent water containing free chlorine and other oxidizing agents can cause serious membrane damage, as oxidative damage is not covered by the product warranty.

Applications


Water for coastal


Domestic water


Offshore platforms


Ocean-going vessels

whatsAPP

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