



DENKO THAI

Reverse Osmosis (RO)

High Desalination Performance

Introduction

Reverse osmosis is a process in which water is separated from dissolved salts in solution by filtering through semipermeable membrane at the pressure greater than the osmosis pressure caused by the dissolved salts in the water. With existing membranes and equipment, operating pressure vary from atmospheric to 6900 kN/m². Reverse osmosis has the advantage of removing dissolved organics that are less selectively removed by other demineralization techniques.

Product Applications

We focuses on five worldwide markets. Our engineered products and systems group will work to create engineering solutions in these markets for new or more complex application that meet specific end – user needs.

- * Power and industrial processing
- * Portable water
- * Health care / Pharmaceutical
- * Food
- * Electronics manufacturing

Product Features

- * High desalination performance with spiral-wound membrane
- * High recovery rate of feed water with long term reliable performance
- * Operation and maintenance procedures are easy
- * Provide reliable out put at an economical price

Continue Innovation

Denko has been successful by working closely with customers to develop RO unit solutions for long time, we stays at the leading edge of new applications. At the same time, mush of our ongoing research and development effort is focused on achieving higher performance or greater productivity in reliable, standard package.



Commercial RO

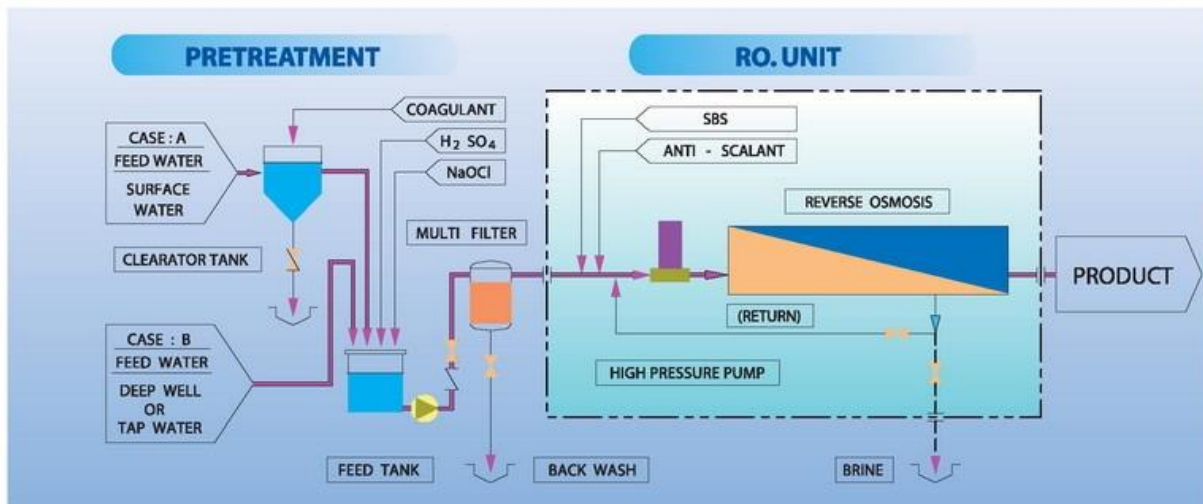
E4/E8/E12 for commercial applications such as restaurants greenhouses, grocery stores and other.



RO E – series with larger flow capacities

Product Specifications Of E-series RO Unit

Model		E 4	E 8	E 12	E 25	E 50	E 72	E 120	E 150	E 240	E 300	E 360	E 480	E 600
Maximum Product Flow rate (m ³ /hr)		0.2	0.4	0.6	1	2	3	5	6	10	12	15	20	25
Membrane	Ø Inch	4	4	4	8	8	8	8	8	8	8	8	8	8
	No. element	1	2	3	1	2	3	6	6	12	12	16	20	24
Vessel	Ø Inch	4	4	4	8	8	8	8	8	8	8	8	8	8
	Element/ Vessel	1	1	1	1	2	3	3	3	4	4	4	4	4
	No. Vessel	1	2	3	1	1	1	2	2	3	3	4	5	6
High Pressure Pump (kw)		1.5	2.2	2.2	4.0	5.5	5.5	11	11	11	15	15	18.5	22
Unit Dimension (mm)	W	600	600	600	800	800	800	800	800	1000	1000	1300	1600	1600
	L	1000	1000	1000	2500	3000	4000	4000	4000	5000	5000	5000	5000	5000
	H	1600	1600	1600	1500	1600	1600	1600	1600	1800	1800	1800	1800	1800
Empty Weight (kg)		350	370	400	500	550	600	750	750	900	950	1300	1700	1900
Running Weight (kg)		370	400	450	540	610	700	900	900	1250	1300	1750	2300	2600



FEED WATER QUALITY REQUIREMENT	
Free Chlorine	≤ 0.1 ppm
Turbidity	≤ 1.0 NTU
Temperature	10 ~ 35 °C
Fe ²⁺ / Mn ²⁺	≤ 0.1 ppm



Notice

- * Offer a board range of product follow requirements.
- * This specifications will be subject to change with or without prior notice.

While developing one resource, we carefully protect the others.



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