

Brackish water Standard Series CWE-BW-100-FRP series

CWE-BW-100-FRP Series Domestic and small commercial Systems (3000 – 6000 GPD)

Reverse osmosis systems are used to purify water and remove salts and other impurities from tap and brackish water. It is also capable of rejecting bacteria, sugars, proteins, particles, dyes, and other constituents that have a molecular weight of greater than 150-250 dalton. Our brackish water Series – 100 unit available with media(manual), pre-filters, chemical dosing, and Antiscalant. These systems are usually customized to fit individual customer and water application needs.

Series – 100- Brackish water is considered to be one of the most compact industrial reverse osmosis systems in the market, it also features state of the art energy saving membranes. When we design 100 series industrial reverse osmosis plants, we consider, robust construction, user friendly, environmental friendly and long term reliability.

Standard Features:

- FRP Frame construction for corrosion resistance and good esthetic look.
- 4" TFC spiral wound brackish membranes from Hydranautics.
- 300 PSI FRP membrane housing made of Code line.
- High Pressure pump of Stainless steel 316 multi-stage from Grundfos - Denmark with TEFC motor
- Feed pump of Lowara / Grundfos as per specifications.
- Multimedia filter with manual control valve for pre filtration
- Poly propylene 10 and 5 micron cartridge pre-filter
- Dosing pump SEKO with 100 ltrs dosing tank for Antiscalant dosing
- Power supply: 410V/3Ph/50Hz
- 220v/ 1ph/ 50Hz control voltage
- Relay controlled control panel for easy maintenance.
- Stainless steel tubing and duplex stainless steel piping.
- Low pressure and high pressure switch for shutdown with Auto Restart
- Liquid filled pressure gauges, panel mount for pump suction, membrane feed, and final concentrate
- Storage tank control vide float switch in feed and product water tanks

- Permeate & concentrate flow meters from Blue White USA
- Made in UAE

Optional Features:

- PLC controlled control panel
- Conductivity and PH monitoring instruments
- Additional dosing pumps for PH and post PH correction.



Standard Model Available:

Model No and specifications						TDS range and flow in US Gallon per day					
Model No	Membrane Size - Qty	MMF	CF	LPP KW	HPP KW	3K	5K	7K	10K	12K	15K
CWE-1E2-329	4"x40"-2	13"x54"-M	2.5"x20"-1+1	1.8	2.2	3000	3000	---	---	---	---
CWE-1E3-329	4"x40"-3	13"x54"-M	2.5"x20"-1+1	1.8	2.2	4500	4500	3000	---	---	---
CWE-1E3-333	4"x40"-3	13"x54"-M	2.5"x20"-1+1	1.8	3	---	---	---	3000	---	---
CWE-1E4-329	4"x40"-4	13"x54"-M	2.5"x20"-1+1	1.8	2.2	6000	6000	4500	---	---	---
CWE-1E4-333	4"x40"-4	13"x54"-M	2.5"x20"-1+1	1.8	3	---	---	6000	4500	---	---

Legends:

- Model number indicated CWE-1E2-329 " Celar water Equipment Co." – " 1 element long 2 pressure vessels" - " high pressure pump Grundfos CRN 3-29"
- Membranes Size 4" x40" – 2 " Means 4" brackish water membranes – 2 no in qty
- MMF – 13"x54" – M , means " 13" diameter x 54" in height – manual operated
- CF – 2.5"x20" – 1+1 – means 2.5" x20" – 1 no as 10 micron + 2.5" x20" – 1 no as 5 micron
- LPP(Kw) is capacity of feed water pump – KW
- HPP(Kw) is capacity of high pressure pump – KW
- TDS range and flow in GPD – indicates capacity of plant in US gallon per day based on TDS range in scale of 3K (3000PPM) – 15K (15000PPM)
- Capacity shown as "----"means not suitable for the TDS range selected.

[Price Details](#) : Please check with Celar representative for quote