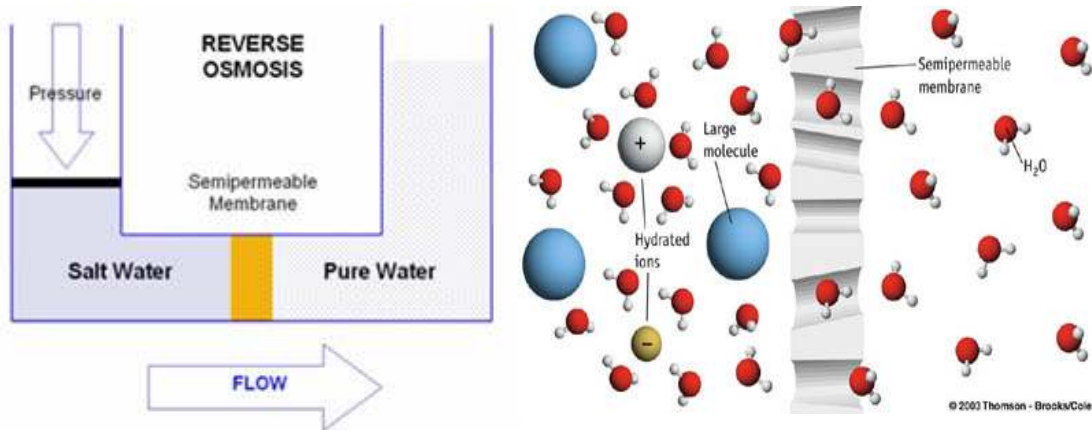


Revised: 01.06.2010

C SERIES REVERSE OSMOSIS SYSTEMS FOR COMMERCIAL APPLICATIONS

Reverse Osmosis Systems are the most modern and efficient purification technology today. With a 90 to 98% purification rate, membranes are eliminating much more hardness, sodium, nitrate and unwanted impurities and produces clean and pure water. **SUAR C Series Commercial Reverse Osmosis Systems**, produce pure water with the capacity between 720 to 30.000 L/day, with the recovery rate of 40...60% when the feed water concentration is 2000 ppm and temperature is around 20 °C. Models are designed to be economical with these values for light industrial and commercial applications.



SUAR – C SERIES COMMERCIAL REVERSE OSMOSIS MODELS AND TECHNICAL SPECIFICATIONS

Model	Capacity @ 20 °C	Operating Pressure [psi]	Membrane Size [inch]	Membrane Qty [pieces]	Recovery [%]	Power Consumption [kW]
	L/day					
SUAR RO C125-1	720	150-200	2,5" x 21"	1	40	0,37
SUAR RO C125-2	1500	150-200	2,5" x 40"	1	40	0,37
SUAR RO C125-3	2000	150-200	4" x 21"	1	40	0,37
SUAR RO C140	5000	150-200	4" x 40"	1	50	0,75
SUAR RO C240	10000	150-200	4" x 40"	2	50	0,75
SUAR RO C340	15000	150-200	4" x 40"	3	60	1,1
SUAR RO C440	20000	150-200	4" x 40"	4	60	1,5
SUAR RO C540	25000	150-200	4" x 40"	5	60	2,2
SUAR RO C640	30000	150-200	4" x 40"	6	60	2,2

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STANDARD FEATURES

1000 ppm TDS value for feed water is considered for the above design data of C Series system

Standard features of the C-Series systems

- Membrane housings are FRP or stainless steel
- TFC Spiral Wound Membranes with 2,5" ve 4" diameter
- AISI 304 stainless steel vertical shaft high pressure pump (C340/440/540/640)
- Brass body high pressure rotary pump (C125/140/240)
- Recycling rotameter (C340/440/540/640)
- 5 micron cartridge filtration
- Pressure adjustment needle valves at pump output and reject line
- Product water conductivity indicator (0-2000 µS/cm)
- Inlet solenoid valve
- Autoflush valve
- Low and high pressure lines (U-PVC)
- Low and high pressure switches
- Permeate and reject rotameters
- Glycerine pressure gauges
- AISI 304 stainless steel frame
- On-off switch
- 220 VAC - 50 Hz - 1 phase (C125/140/240)
- 380 VAC - 50 Hz - 3 phase (C340/440/540/640)

APPLICATION AREAS

- Hospitals
- Hemodialysis centers
- Chemical, cosmetics, glass and coating industries
- Large scale laboratories
- Potable water supply from mains and well water
- Processes require water at low conductivity
- In the recycling processes of high concentrated water
- Treatment of high metal concentrated water
- Supply of potable water from the sea water

RECOMMENDED FEED WATER LIMITS

- Feed water TDS : 0 - 2,000 ppm
- Operating pressure : 10 to 15 bar
- Feed water pressure : 2 to 5 bar
- Hardness : If the hardness is above 3 Fr, Antiscalant (ASC) dosage is required
- pH range : 6 - 8
- Silica (SiO₂) toleration : 25 ppm max. @ 60% efficiency
- Max. feed water temperature: 30 °C Max.
- Max iron (Fe) toleration : 0,05 ppm , with ASC dosing 0,2 ppm
- Hydrogen sulfide should not exist.
- Turbidity should not exist (NTU <1).



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