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## I SERIES INDUSTRIAL REVERSE OSMOSIS SYSTEMS



## SUAR - I SERIES INDUSTRIAL REVERSE OSMOSIS MODELS AND TECHNICAL SPECIFICATIONS

I SERIES INDUSTRIAL REVERSE OSMOSIS SYSTEMS						
Model	Capacity @ 15 °C	Operating Pressure [bar]	Membrane Size [inch]	Membrane Quantity [Pieces]	Recovery[%]	Pressure Vessels [Pieces]
	m <sup>3</sup> /day					
SUAR RO I840	45	9 - 10	4" x 40"	8	65	4
SUAR RO I940	50		4" x 40"	9	65	3
SUAR RO I1240	68		4" x 40"	12	65	4
SUAR RO I1540	85		4" x 40"	15	65	5
SUAR RO I1840	100		4" x 40"	18	65	6
SUAR RO I2140	120		4" x 40"	21	65	7

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## STANDARD FEATURES

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

### Standart Features of I Series Systems

- ROPV (UK) brand FRP pressure vessels – max. 21 bar – end port
- Hydranautics (USA) brand TFC Spiral wound membranes - 4" diameter –low pressure type
- Grundfos (Denmark) brand vertical shaft stainless steel high pressure pump
- Corrosion resistance and durable AISI 304 stainless steel frame
- 5 micron cartridge filter
- Stainless steel needle valves at the discharge of RO pump and at reject line for flow/pressure adjustment
- Conductivity monitor at permeate
- Electrically actuated PVC ball valve at inlet
- Autoflush valve
- Low pressure line U-PVC, PN16
- High pressure line U-PVC, PN25
- Low and high pressure switches
- Permeate and reject rotameters
- Glycerine pressure gauges
- On-off switch
- Alarm and status lights
- 380 VAC - 50 Hz - 3 phase
- IP65 control panel



## RECOMMENDED FEED WATER LIMITS

- Feed Water TDS : 0 - 2,000 ppm
- Operating Pressure : 6 to 8 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 (SiO<sub>2</sub>) 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
- Hidrogen sulfide should not exist.
- Turbidity should not exist ( NTU <1 )

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