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## Seawater RO desalination plant (830L/H)



### 1. Product overview:

- 1) The design is based on the average salt content of seawater at 35000 ppm and water temperature at 25°C. Therefore, it is required to be used within the range to meet its water yield requirements. Operating temperature range:1-45°C.
- 2) Produced water quality: TDS (total dissolved solids) ≤700ppm.
- 3) Product warranty: the warranty period is 12 months under normal operation conditions as required by the manual.
- 4) Quality/safety certification: ISO9001-2015 quality system certification.
- 5) Packing method: wooden case packing.
- 6) Model number: JMLN-SW-20TD.
- 7) Water yield: 20M<sup>3</sup>/D (830Liters/Hour); Permeated water application: planting.
- 8) Power:8.6kw, three-phase four-wire, 380V50Hz.
- 9) Machine size: Pretreatment: 1200\*750\*1650(L\*W\*H: mm); Main machine: 1000\*850\*1650(L\*W\*H: mm); Total weight: 2200KG;Occupied area:3M<sup>2</sup>.
- 10) Feeding capacity: 2.5 M<sup>3</sup>/H; Feeding pressure:2-3 bar.
- 11) Operating pressure: 5.5Mpa (786PSI).
- 12) Recovery rate: 35%.
- 13) Desalination rate: 98.5%.

### 2. Components list & Quotation:



No	Equipment name	Specifications	Qty. (set)	Brand	Remark
1	Sea water transfer pump	Power: 1.1 KW	1	CNP	Material:SUS316
2	Flocculation dosing device	Dosing pump model:P066; PE tank:40 liters	1	Milton Roy	
3	Multi-media filter	Size:Φ*H=400*1600(mm) ; Material: FRP	1		Quartz sand filter
4	Activated carbon filter	Size:Φ*H=400*1600 (mm) ; Material: FRP	1		Activated carbon filter
5	Wound type filter	Size:Φ*H=259*700(mm);Material: UPVC;Wound type filter:5 filters*20''	1		Filtration accuracy: 10μ
6	PP filter	Size:Φ*H=259*700(mm); Material: UPVC; PP filter: 5 filters*20''	1		Filtration accuracy: 5μ
7	Anti-scale dosing device	Dosing pump model:P066; PE tank:40 liters	1	Milton Roy	
8	High pressure pump	Power: 7.5KW; Material: SUS316; Flux: 3M3/h; Pressure: 150 bar; Rotate speed:1450rpm	1	Imported from Italy	
9	RO membrane	RO membrane (4040);	4 PCS	Dow	USA
10	Membrane vessel	1000PSI FRP vessel	4PCS	High quality	One membrane, one vessel
11	Membrane washing device	Washing tank: 80 Liters	1		
12	Rack	Carbon steel spraying plastic	1		



13	Pipeline system	High pressure pipelines:SS316&hose; Low pressure pipeline: PPR;	1 lot		
14	Meters&control system	Schneider components;Conductivity meter; High and low pressure switch; Flowmeter and other instruments.			Functions: Functions: Low-pressure protection for water inlet; High-pressure protection for operation; Unqualified protection for water production, etc.; Automatically start and stop the system according to the level of water tank.

### 3. Security:

3.1) Reverse osmosis membrane water pressure overpressure protection, when the reverse osmosis membrane water pressure exceeds 6.5MPa, the equipment will be automatic pressure relief protection.

3.2) When the inlet pressure of the high-pressure pump is insufficient, the equipment will be automatic low pressure protection.

3.3) When there is without enough feeding water, and the inlet pressure of the high-pressure pump is lower than 0.09Mpa, it will be automatically stop.

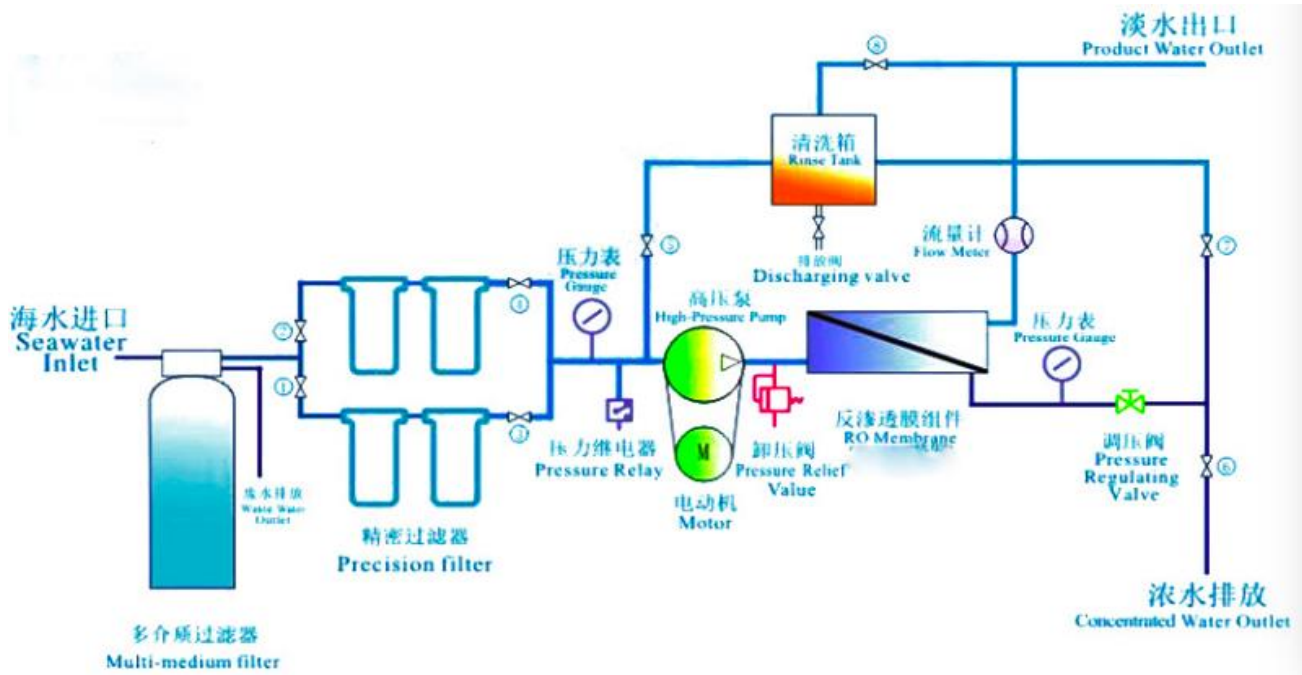
Special design:

3.4) High pressure pump special treatment to prevent excessive corrosion damage;

3.5) The valve has been specially designed to simple operation and prevent the device from holding back pressure and bursting pipe due to wrong operation.

3.6) When the equipment is cleaned, the cleaning system automatically stops to prevent the water-free from damaging to the high-pressure pump.

### 4. Flow diagram for reference only:



5. Picture for reference only:

