RO Water Treatment Machine for Dialysis (1500L/H)

YJ-ROII/2 (single pass, 1500L)

YJ-ROII/2 (double pass, 1500L)



General Description:

Name: RO pure water treatment machine for dialysis.

Water capacity: 1500L/H.

Rated voltage: AC380V, 50Hz, 3-Phase 4-wire.

Desalination rate: 99.8%.

Recovery rate: 65%-85%.

Ion removal rate: 99.5%-99.9%

Bacteria & endotoxin remove rate: 99.8%

Working temperature: 5-40°C.

Tech adopted: pretreatment + RO system

Pre-treatment: Sand filter, Active carbon filter, Water softener.

Control: PLC control system adopted.

Note:

Warning alarms when anomalous water level/pressure. Protect from low/high pressure, short/open circuit, leakage and over current. Timing RO auto wash.

Pure water quality:

PH	5.0-7.0	Nitrate	≤0.06µg/ml
Cond.	≤5μS/cm	Nitrite	≤0.02µg/ml
Endotoxin	≤0.10 EU/ml	NH3	≤0.3μg/ml
TOC	≤0.50mg/L	Microorganism	100CFU/ml
Heavy metal	≤0.5μg/ml		

Working Process:

Booster pump \rightarrow sands filter \rightarrow active carbon filter \rightarrow water softener \rightarrow PP filter \rightarrow high-pressure pump \rightarrow RO system \rightarrow RO tank \rightarrow water using points

Detail introduction

Booster Pump

Provide power for pretreatment & RO system. Boosters pump in the whole system adopt Chinese famous brand or other international brands (optional), which has high quality and long service life. SUS material.

Sand Filter

Different size of quartz sand will be put in the sand filter. Get rid of turbidity, suspended solids, organic matter, colloid, etc. in the water.

Active Carbon Filter

Remove color, free chloride, organic matter, harmful matter, etc. Remove 99% of the chlorine and organic chemicals. Provide enhanced reduction of taste, odor and color. Protect and prolong the life of RO seawater desalination membrane.

***** Water Softener

Soft and reduce the hardness of water, make it healthy for dialysis.

PP Filter

Prevent any deposition of large particles, for holding back any large particulates such as iron, dust, SS, impurity into the RO membrane.

***** High Pressure Pump

Provide power for RO system, equipped with over-heat, protect and pressure controller. Pump in the whole system adopt Chinese famous brand or other international brands (optional), which has high quality and long service life. SUS material.

* RO System

Adopts high desalination rate USA world famous DOW membrane to treat water and get clean water for dialysis treatment. It removes the following water contaminants that may be present in water: lead, cooper, barium, chromium, mercury, sodium, cadmium, fluoride, nitrite, nitrate, and selenium.

***** Electrical Control System

All pipeline & fittings adopted in the whole plant are anti-corrosion material.

Wire and cable will make use of CN famous brand which have good quality and long service life.

RO water treatment machine 1500L/H detail list

Components	Specification	Quantity	Remarks	
Automatic sand filtration	1665	1 Unit		
machine	250kg	1 Ont		
Automatic carbon filter	1665	1 Unit		
machine	75kg	1 Omt		
Automatic softener	1665	1 Unit		
Automatic softener	120kg	1 Onit		
Salt barrel	200L	1pcs		
Raw water pump	CHL4-40	1 Unit		
High pressure pump		2 Units	Double pass	
High pressure pump		1 Units	Single pass	
Absolute Filters	5*20"	1 Unit		
PP filter	5 um	3pcs		
Pipe Fittings	U-PVC	1 batch		
Reverse osmosis membrane	4040 (Dow)	1 Units	G' 1	
Reverse osmosis membrane	8040 (Dow)	3 Units	Single pass	
Reverse osmosis membrane	4040 (Dow)	1 Unit	Double pass	
Reverse osmosis membrane	8040 (Dow)	1 Unit		

Consumable replacing period:

Goods name	Specification	Life of usage	Function
Quartz sand	4-6,6-8	18-20 months	Large particles of impurities in water filtration
Activated carbon		18-20 months	Removal of chlorine, bleach and other oxides, organic
Cation resin	001*7	18-20 months	Removal of calcium and magnesium, to soften water
Coarse salt		Every week	Resin regeneration supplies
Security filter	20"×5um	20 days	Protection of Reverse osmosis membrane
Reverse osmosis membrane	4040 (Dow)	18-20 months	Removal of all metal ions \ salt \ bacteria \ Virus \ make water conductivity \ particulate matter, and so reach the water requirements
Reverse osmosis membrane	8040-400 (Dow)	18-20 months	Same as above