



Shenzhen Angel Drinking Water Equipment Co., Ltd.

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30M³/h Reverse Osmosis Pure Water System (2 Grades)

1. Reverse Osmosis (2 grade) machine:

1.1 Design theory:

1). Input water quality: city tap water

2). Input water conductance: <400us/cm

3). Water production technical index:

a. Output water flux: 30M³/h Water temperature: 25°C

b. Output water quality: Accord with National bottle drinking water standard GB17323-1998.

1.2. Technical explanation:

1) This system adopts the most advanced Reverse Osmosis pure water filter technical. Its water production conductance rate generally less than 10us/cm, which precede the national standard GB17323-1998. The water made by this system is asepsis, non-granule and pure.

2) The RO membranes of this system adopt ESPA-8040 of American Hydranautics. Its desalting rate can highly reach 98% and callback rate can be reach 50-75%, which are its special technical manner. Many pure water manufacturers had proved this whole set system that the remove rate of germina in water, poisonous heavy metal, radionuclide, organic micro pollution can highly reach 99.99%, 95%, 99% and 95%. After removing the poisonous and harmful substance in water basically, many toxicological indexes, such as organics, benzene, tetrachloride, pesticide, hydroxybenzene and plumbum, hydrargyrum, chrome, cadmium, uranium etc. radionuclide all are below the inspected limitation.

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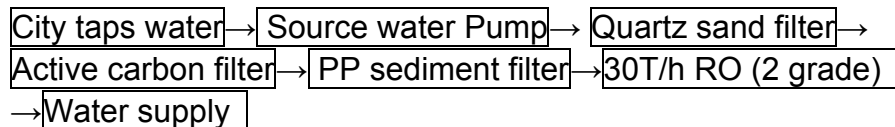
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1.3 Technical process:

The whole pure water production line technical process:



1.4 Technical collocation explanation:

No.	Name	Original Material	Model	Quantity	Remark
1	Source water Pump	GRUNDFOS	CR45-2	1	Voltage: 380V; power: 7.5KW. Water flux: 50-56M ³ /h; Working pressure: 0.2-0.3Mpa
	Mechanical filter machine	SUS304	Φ2000×3400×δ4.0	1	Working pressure: 0.2Mpa. Water flux: 47-56M ³ /h; Velocity of flow: 15-18m/h; Filter material: quartz 6400kg
	Mechanical filter machine	SUS304	Φ2000×3400×δ4.0	1	Working pressure: 0.2Mpa; Water flux: 47-56M ³ /h; Velocity of flow: 15-18m/h; Filter material: active carbon 2000kg
	PP sediment membrane filter	SUS304	Φ500×1000×δ1.5	1	5u×1000 filter 36 items. Water flux: 54-70M ³ /h; Working pressure: 0.2Mpa
2	RO equipment				This system has auto wash, manual wash, protected without water, high-pressure protection etc function. Rated water flux: 30m ³ /h; rated pressure: 0.9-1.0Mpa / 0.8-1.0Mpa. Salt distraction rate: 98-99%; callback rate: 65-85%.
	Membrane carapace	SUS304	80200	9	
	Membrane	American Hydranautics	ESPA-8040	45	

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	Multi-phase pump 1	GRUNDFOS	CR45-6	1	Voltage: 380V; power: 22W. Working pressure: 1.0-1.1Mpa; water flux: 45-50M ³ /h
	Multi-phase pump 2	GRUNDFOS	CR32-8	1	Voltage: 380V; power: 15W. Working pressure: 1.0-1.1Mpa; water flux: 36-38M ³ /h
	Conductance indicator	Made in China		1	
	Flow meter	Suzhou	50T	2	
	Electromagnetism valve	Made in China	DF65	1	
	Stainless steel frame	SUS304		1	
3	Electronic components, pipe connection, pressure gauge etc; 2 sets of soft star-up, packing box.				

1.5 Main function

RO system callback rate: 65-85%

RO system salt distraction rate: 98-99%

RO system water flux: 30M³/h

RO system working pressure: 380V

RO system power: 45KW

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