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20,000L/H R.O. Main Machine System



1. Design basis and treated water standard:

1. Design Basis

1.1 Produced water's application: Bottle drinking water

1.2 The capacity of produced water: 50,000L /H

1.3 System Configuration: One Stage Reverse Osmosis Main System

1.4 Designed recovery: 50-65%.

1.5 Rejection rate: $\geq 97\%$

1.6 Voltage: 3 phases, 380V, 50Hz; Power: 30KW

2. System requirements:

2.1 Inlet pipelines: inlet pipe connected with the raw water tank entrance.

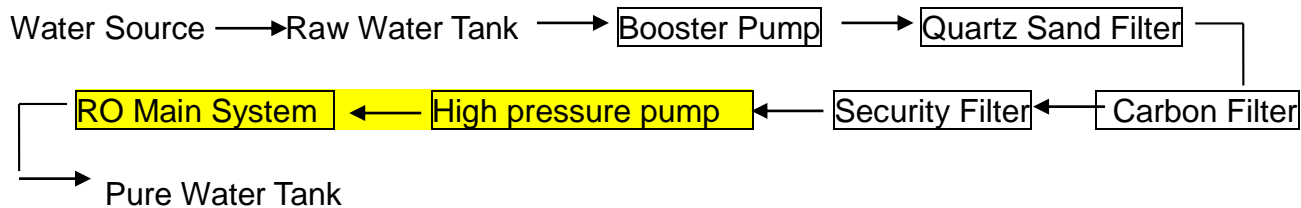
2.2 Cable: According to the calculated capacity of electric power, the user should send it on the control cabinet.

2.3 Outlet water pipelines: From pure water tank to the pure water using point.

2.4 Concentrated Water Treatment: Discharge to the wastewater pool (user considered).

2.5 Water temperature: 5-35°C

3. Process(yellow part):



6. Main Components List:

Basic Configuration	Item	Description	Remark
Pre-treatment Part	Micron Filter	30" x 30 cores pp filter	SS304
	Chemical Dosing Device		
RO Part	High Pressure pump	CNP CDMF32-100	380V/50Hz; 18.5kw
	RO membrane	FILMTEC BW30-365X20pcs	
	Membrane vessel	8040"x 4m 5 SETS	
Piping and controlling valve	Pipelines	Low Pressure Part PVC-U High Pressure Part SS304	
	Solenoid Valve	Ball DN50	SUS304
Automatic control box	high pressure electric control cabinet 1set with import electric elements, Mitsubishi PLC System + Danfoss transducer		
Other fittings of machine	Oil Seal Pressure gage	8pcs in total	SS304
	Conductivity of the table	CM230 X 2sets	
	Main frame	Stainless steel 1set	
	Pipeline flow meter	75T/H 2pcs	
	High pressure transducer	Danfoss	
Cleaning part	Cleaning Pump	CNP CHL 16-30	
	Cleaning Tank	2000L PE Tank	