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## 700L/H R.O. Water Purification System



### 1.Design basis:

- 1.1) Raw water:  $\leq 20\text{us}$
- 1.2) Produced water's application: **Bottled drinking water.**
- 1.3) Output: **700L /H.**
- 1.4) Designed recovery: 50-65%.
- 1.5) Rejection rate:  $\geq 97\%$
- 1.6) Voltage: 3 phases, 380V, 50Hz; Power: 2.5KW.

### 2. System requirement:

- 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 electrical 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 waste water pool.
- 2.5) Water temperature: **5-35°C.**



2.6) Covered space:6M×5M×4M.(L\*W\*H; unit: meter)

### 3.Feature:

3.1) Flux,working pressure, water quality automatically display on line.

3.2) **PLC Control.**

3.3) High quality **RO membrane.**

3.4) Equipped with ozone generator for sterilization: keep water fresh, and no secondary pollution.

### 4. Process:

Water Source----- Raw Water Tank-----Booster Pump-----Manganese Filter-----Quartz Sand Filter-----Carbon Filter-----Security Filter-----High Pressure Pump ----- RO Main System -----Pure Water Tank

### 5.Component list:

No.	Equipment	Material	Item	Qty.	Remark
1	Booster pump	SUS304	CHL2-30	1	380V, 0.55KW
2	Mechanical filter	SUS304	300×1200	1	Quartz Sand
3	Activated carbon	SUS304	300×1200	1	Activated carbon
4	Security filter	SUS304	10"×5filter	1	
5	High pump	SUS304	CDSF2-180	1	380V,1.5KW
6	RO membrane		RO membrane	4	
7	Vessel	SUS304	4040*1M	4	
8	Flux meter		5GPM	2	
9	Pressure controlled meter	SUS304		4	
10	Pipelines	PVC-U		1	
11	Solenoid valve		DN20	1	
12	Electrical box			1	PLC
13	Main frame	SUS304		1	
14	Valve	SUS304	DN25	1	
			DN20	1	



## 6. Pictures for reference:

