



Address: No.78, XingYe Road, Chaolian Town, Jiangmen City, Guangdong, China. (Jiangmen Office)

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI, HK (Hongkong Office)

Tel: +86 137 2595 7662 (Whatsapp) +86-750 3094316 Fax: +86 750 3723909

5000LPH Reverse Osmosis Water Treatment System



1.Design basis:

1.1) Raw water: **Mountain water from Cameroon (It is better to provide the raw water quality analysis report to us), Here is a raw water quality analysis report for reference:**

1.2) Produced water's application: **To wash RTE salad.**

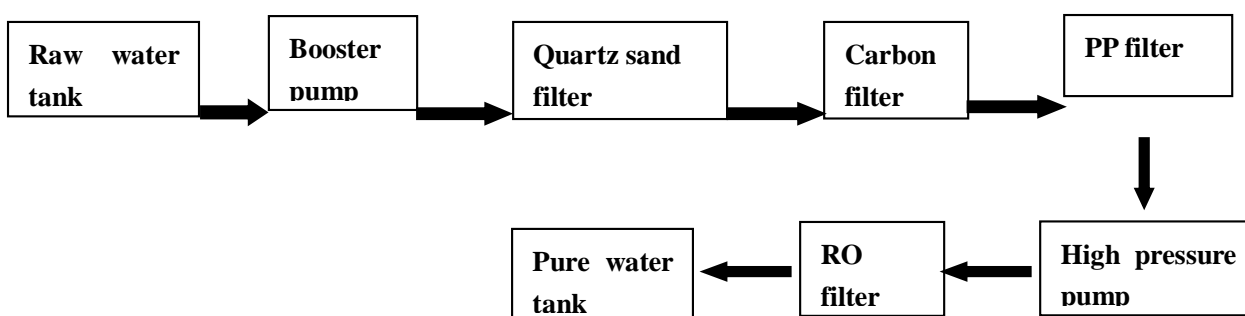
1.3) Output: **5000L /H.**

1.4) Designed recovery: 50-65%.

1.5) Rejection rate: **≥ 97%**

1.6) Voltage: 3 phases, 380V, 50Hz; Power: 10KW.

2. Water filtration process:





3. System requirement:

- 3.1) Inlet pipelines: inlet pipe connected with the raw water tank entrance.
- 3.2) Cable: According to the calculated capacity of electric power, the user should send it on the electrical control cabinet.
- 3.3) Outlet water pipelines: From pure water tank to the pure water using point.
- 3.4) Concentrated Water Treatment: Discharge to the waste water pool.
- 3.5) Water temperature:**5-35° C**
- 3.6) Covered space:15M×5M×5M.(L*W*H;unit:meter)

4.Feature:

- 4.1)Flux,working pressure, water quality automatically display on line;
- 4.2)**PLC Control**
- 4.3)High quality **RO membrane from USA company-- DOW.**
- 4.4) Equipped with ozone generator for sterilization:keep water fresh.and no secondary pollution.

5.Advantage of RO system:

- 5.1) Highest filtration precision: Retain greater than 0.0001 microns impurities;
- 5.2) It can effectively remove the dissolved salts, colloid, microorganism, organic matter,and so on.
- 5.3) Low energy consumption, no pollution, simple process, easy operation etc..

6.Component list:

No.	Equipment	Item	Specification	Qty	Unit (set)	Material	Remark
6.1	Booster pump	Booster pump	1.5KW	1		SUS304	
6.2	Mechanical filter	Tank	Φ750×1800	1		FRP	
6.3	Activated carbon filter	Tank	Φ750×1800	1		FRP	
6.4	Security filter	PP filter	5filter,40inches	1		SUS304	5micron
6.5	High Pressure pump	High pressure pump	7.5KW	1		SUS304	
6.6	RO filter	RO membrane	BW30-400	4		PA	DOW Filmtec, USA Brand
		Vessel	8"-2M	2		FRP	
		Flux meter		2		Organic glass	
		Pressure meter	0.0~2.5PMa	5		SS	

		Pressure controlled meter		1		
		Solenoid		1		
		RO housing		1		SS304
6.7	Electric control box	Conductivity meter		2		
		Electrical Box	PLC (Mistubishi)	1		SS304
		Wire		1		
		AC contactor	Schneider	1	lot	
		Indicator	Schneider	1	lot	
		Relay	OMRON	1	lot	
6.8	Filtration material	Quartz sand		800	Kg	
		Activated carbon		275	Kg	
6.9	Pipelines	Pipelines		1	Lot	Low pressure: UVPC; High pressure: SUS304;

7. Pictures for Reverse osmosis system





