

# TRITECH TI-RO WATER PURIFIER

TriTech

MEMBRANE RELATED PRODUCT

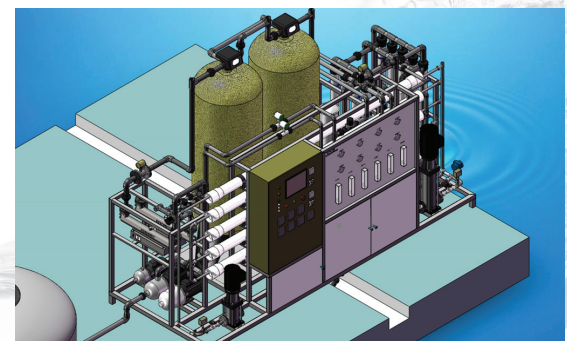
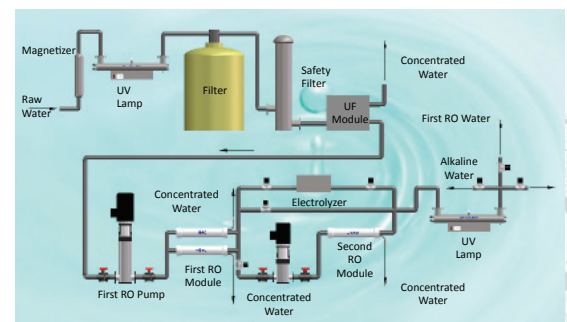
**TI-RO water purifier** uses the most advanced and effective energy saving RO separation technology. The purifier uses a semipermeable RO membrane, which only allows water molecules to pass and retains all other substances, thereby producing clean and purified drinking water. The purifier uses microfiltration, softening, UF, sterilization, reverse osmosis and an alkalization process. It is capable of removing harmful carcinogens, bacteria, viruses and other chemicals and organic compounds from drinking water source.



## TI-RO WATER PURIFIER CHARACTERISTICS

- RO desalination and separation. The salt rejection of a single RO membrane element is 98% or higher, while colloid, organic matter, bacteria and virus are completely removed from water.
- Using hydraulic pressure as driving force, the energy consumption is much lower compare to many other desalination methods.
- Capable of continuous water production, simple system, easy to operate, and stable and high quality product water.
- Small occupying area, compact structure, reliable operation, high quality water production
- Able to customise according to customers needs with options for integration with secondary RO or UF equipment
- Optional alkaline water equipment, electrolyzed water ( PH from 7.0 to 10.0) has characteristics like alkalescency , small molecule and negative potential which fully matched the WHO's 6 standards of healthy water. Ideal choice for waterworks' upgrades.

## TI-RO WATER PURIFIER PROCESS FLOW



|                   | Main application fields   |
|-------------------|---|
| <b>Pure water</b> | <ul style="list-style-type: none"> <li>• Production of pure drinking water, production of pure water used in beverage, beer, alcohol, milk and health supplements in food industry.</li> <li>• Drinking water treatment for areas with high fluoride, high hardness or high salinity water.</li> <li>• Pure water for use in car and household electronics lacquering, glass coating and cosmetics.</li> <li>• Direct drinking water for communities and high-end residential areas</li> <li>• Drinking water for large enterprises and institutions</li> </ul> |

## TI-RO WATER PURIFIER MAIN PERFORMANCE INDEX

### Requirement of raw water:

Total dissolved solids (TDS) < 800mg/L, Turbidity <0.2NTU, Silting Density Index (SDI) <3, PH range 4-11, Free Chlorine Residual <0.1mg/L, Temperature 5- 45°C, Iron and Manganese <0.05mg/L.

### Output water quality:

Primary RO 3m<sup>3</sup>/h, Conductivity <10us/cm;

Secondary RO 0.5m<sup>3</sup>/h, Conductivity <5us/cm;

In accordance with the requirement of "The hygiene, safety and function evaluation criterion of drinking water process – RO treatment equipment(2001)";

In accordance with national standards of beverage and alcohol industries;

In accordance with national standards of drinking water (CJ94-1999);

In accordance with national hygiene standards of bottled water (GB17324-2003);

In accordance with Guidelines for drinking water quality (4th edition, WHO,2011).

### Power supply:

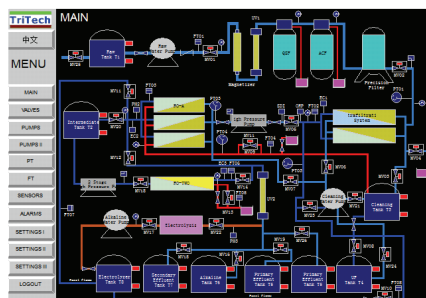
AC380V/50Hz

## PRODUCT RANGE FOR TRITECH INTEGRATED RO SYSTEM

Pre-engineered Package Plants are cost effective and compact solutions for water treatment

| Model No  | Dimension (cm*cm) | Power(KW) | Power source | Capacity(m <sup>3</sup> /hrs) |
|-----------|-------------------|-----------|--------------|-------------------------------|
| TI-RO-0.5 | 160*65            | 2.4       | AC380V       | 0.5                           |
| TI-RO-1   | 160*65            | 3.0       | AC380V       | 1                             |
| TI-RO-2   | 260*80            | 4.1       | AC380V       | 2                             |
| TI-RO-3   | 300*80            | 4.1       | AC380V       | 3                             |
| TI-RO-4   | 350*80            | 5.0       | AC380V       | 4                             |
| TI-RO-5   | 400*80            | 6.5       | AC380V       | 5                             |
| TI-RO-6   | 400*80            | 7.0       | AC380V       | 6                             |
| TI-RO-7   | 450*85            | 7.0       | AC380V       | 7                             |
| TI-RO-8   | 600*90            | 8.5       | AC380V       | 8                             |
| TI-RO-10  | 800*100           | 10.0      | AC380V       | 10                            |
| TI-RO-20  | 900*250           | 17.5      | AC380V       | 20                            |
| TI-RO-50  | 1200*300          | 35.0      | AC380V       | 50                            |
| TI-RO-100 | 1500*450          | 67.0      | AC380V       | 100                           |

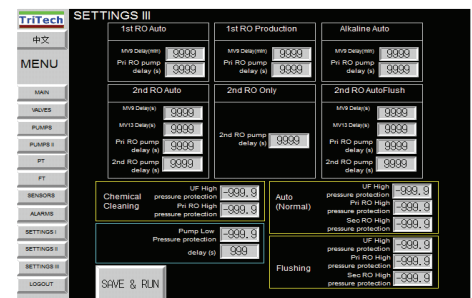
## OPERATION INTERFACE



Process flow monitoring



Production Trend chart



Parameters setting page