RenseWAI GA

RenseWAI GA Lab Water Purification system produces Type 3 RO water, directly from potable tap water. It is an ideal choice for users who need up to 20 liters of RO water per day.

Features

Design & Functions

- The system can be linked to multiple dispensers via wired cable or wireless.
- Automatic temperature compensation allows RO production rate stable over a wide range of temperature.
- Fully automated control system has cleaning, rising, flush and many other functions.
- System automatically rinses a new RO membrane.
- A bypath automatically sends the RO water to the drain if it does not meet a preset quality standard. The RO drain water is reused / recycled to increase the water yield thus it is more environmentally friendly.
- The main system can either be wall-mounted or set on the shelf or under the sink, to save precious lab space.
- The Chlorine cleaning and pH cleaning functions keep the maintenance easier and ensure optimal water quality.
- **No storage tank needed. Eliminating potential contamination and microbial growth from the storage tank.**
- Compact design: no additional pre-treatment filters required; remote dispenser on the system.

Effective TOC level control

- Built-in 185/254 nm dual wavelength lamp reduces TOC level in ultrapure water.
- On-line TOC monitor based on complete oxidation methods (for TOC models only).

Easy Operation and Maintenance

- Performance history, alarms and alerts information, maintenance data of consumables as well as key parts are logged and traceable from a simple RFID scan at installation.
- RFID tags ensure perfect placement of consumables and trace their performance.
- Water quality, operation parameters, the status of the system, dispensers, components, and peripheral devices are stored and displayed on the large color touch screen monitor.
- Signature verification for maintenance and service.

Cartridges and Parts

1. Cartridge

- Pre-filtration pack removes most large particles, chlorine, calcium or organic compounds to protect RO membrane to extend their usable life.
- Ultra purification cartridge is filled with LeFilTM and OrganeFilTM media to remove trace ions and organics.

2. Control console

- An 8-inch console controls system and peripheral devices. All operations can be done on the console by touching the screen.
- The control console can be placed on the bench or inside a drawer for further flexibility and space saving.
- The console screen and dispenser screens are water-proof. You can operate the console and dispenser with latex gloves on.
- The system has two level password protection on display menu for safety purposes.

3. Dispenser

- The volumetric function can automatically deliver the water volume you need once it is set up.
- With the adjusting button on a control console or a dispenser, you can dispense water at the flow rate you need up to 2 liters per minute.
- A dispenser handle can be set on the dispenser stand, on the main system, or even hanging onto other places to free up maximum bench space.

4. Final Filter

- A wide range of final filters (optional) is applicable to ensure ultrapure water without particles, bacteria or pyrogen.

Main Applications

Ultrapure Water

- HPLC mobile phase preparation
- Preparation of reagent blank solution
- As sample diluents for GC, HPLC, AA, ICP-MS and other analytical techniques
- Preparation of buffer and culture media for mammalian cell culture
- Preparation of molecular biology reagents, etc.

RO Pure Water

- Glassware cleaning
- Washing machine for glassware
- Water bath water
- Autoclave
- Feed water to laboratory animals

Main Specification

Feed Water Requirements

- Feed Water – Potable Tap Water
- Feed water conductivity < 1000 µS/cm or TDS < 500 ppm
- Feed water pressure – (2-6) bar
- Operating temperature (5 – 35)°C
- Feed water TOC < 1000 ppb

Flow rate

- Type 3 or RO based production rate – 32 L/hr.
- Type 3 or RO based water dispensing rate – 0.6 L/min (only with additional dispenser) (optional)
- Type 1 or Ultrapure Water dispensing flow rate – 0.6 L/min

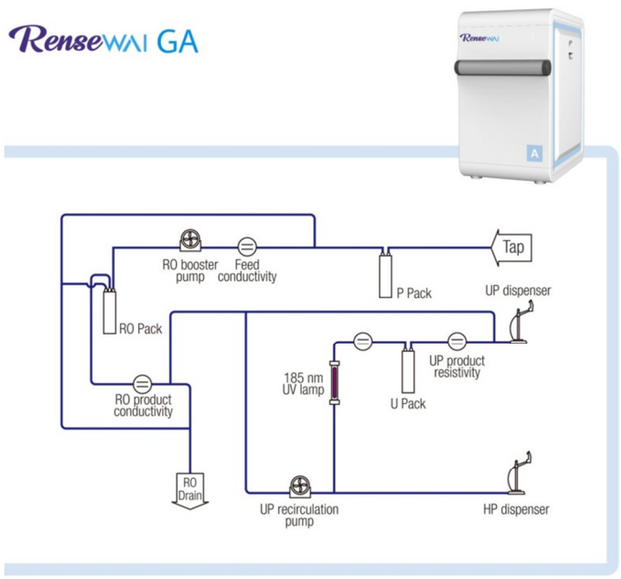
Product Water Quality

- Type 3 or RO based water quality (@25°C) > 90% Ionic rejection, when compared to the feed water conductivity
- Type 1 Ultrapure water resistivity (@25°C) – 18.2 MΩ·cm
- Type 1 Ultrapure water TOC < 10 ppb (If feed water TOC < 30 ppb)
- Particles in Ultrapure water of > 0.2 µm - No particles (with a 0.2 µm final filter or Bio filter unit)
- Microorganisms in Ultrapure water - < 0.01 cfu/ml (with a 0.2 µm final filter or Bio filter)
- Pyrogens (Endotoxins) in ultrapure water < 0.001 EU/ml (with a Bio filter)
- RNase in ultrapure water < 0.5 pg/ml (with a Bio filter)
- DNase in ultrapure water <10 pg/ml (with a Bio filter)

Power

- Input Voltage - 110 - 240 VAC
- Operating Voltage - 24 VDC
- Wattage < 200 W

Flow Chart



Ordering Information

Sl.No.	Description	Catalogue No.
1	RenseWAI GA System SET	RW0A04000K
2	RenseWAI GA System SET with TOC	RW0A040T0K

Standard contents of the Set

RenseWAI GA System Set consists of :-

1. Main system

2. Control Console

3. One Dispenser for Type 1

4. UV (pre-installed)

5. P Pack

6. U Pack

7. Three stage prefiltration kit (PF Kit)

(1 micron + 10 micron + Carbon Cartridge of 3 micron pore size, included inside PF Kit. Quantity – 1 no. each, all 10” long)

8. External feed booster pump, with high & low pressure auto cutoff switch included.

(Included / needed only in-case, if potable feed water pressure is less than 2 bar)

Photographs (Representative only)

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(Disclaimer – Please note photographs are for representation purpose only & can vary from the actual system)

RenseWAI

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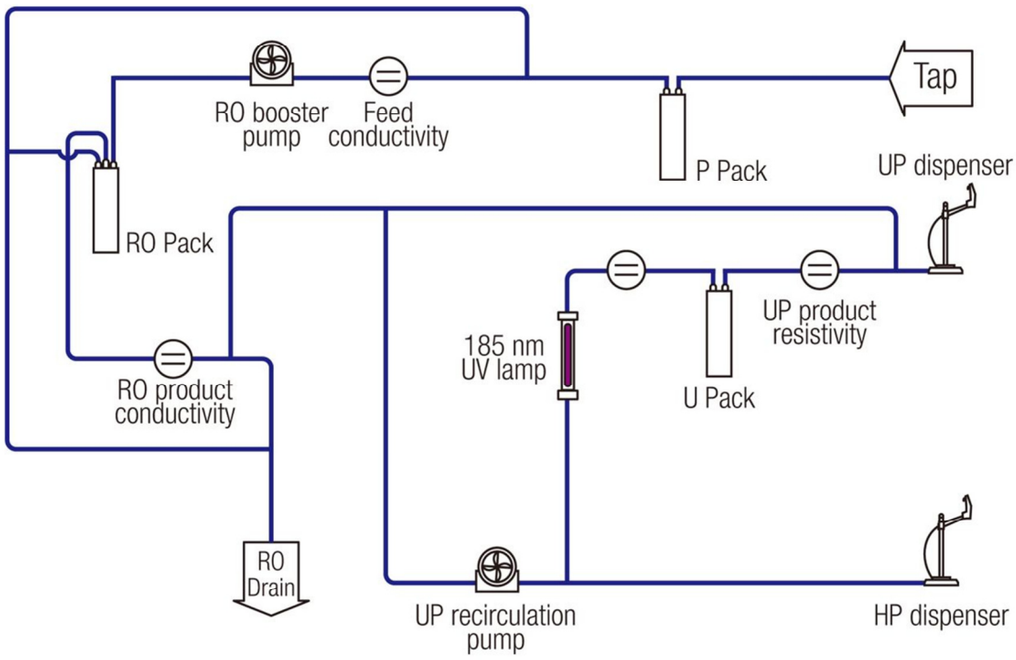

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