

# RenseWAI



## **RenseWAI GE**

RenseWAI GE is an EDI (Electro De-Ionization) based Pure Water System, produces Type 2 or EDI water directly from potable tap water. Resistivity of the product water is above 5 MΩ•cm at 25°C, which meets or exceeds Type II water quality, as defined by ASTM reagent grade water standards.

### **Features**

#### **Design & Functions**

- The system can be linked to multiple dispensers via CAN cable or wireless.
- Automatic temperature compensation allows RO production rate stable over a wide range of temperature.
- Exceptionally consistent and predictable high purity Type II water, from the best in class IonPure EDI (Electro De-Ionization) module.
- 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 be either 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.





### **Effective TOC level control**

- Built-in 254 nm lamp kills bacteria in pure water.
- A tank Sanitization Module can be equipped to effectively keep microbial growth at a lower level by UV light. (optional)

### **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. EDI module**

- Internal Ion-Pure EDI module removes the remaining ions, further reduces the content of organic compounds.
- Ion exchange resins are continuously regenerated by an electric field. No hazardous chemical regeneration or costly resin replacement is needed.
- EDI module has a high degree of automation and minimal electricity consumption by using the equivalent of the energy.

#### **2. Cartridge**

- Internal P Pack cartridge removes organics, particles and scaling ions to prevent them from fouling the RO membranes and the EDI module.
- AC Pack contains special activated carbon to remove organic impurities and free chlorine.

#### **3. 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 & security purposes.

#### **4. 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.





## 5. Final Filter

- Various final filters (optional) are applicable to ensure ultrapure water without particles, bacteria or pyrogen.

## 6. Level sensor

- The tank integrated continuous level sensor measures water level within the tank and manages the system to start or stop producing water automatically based on requirements.
- Water level and quality inside the tank can be viewed from the control console.

## Main Applications

### EDI Pure Water

- Preparation of chemical bio-reagents
- Preparation of culture media
- Preparation of solution for chemical analysis such as HPLC and ICP
- Feed water to ultrapure water systems
- Feed water to medical device and equipment (clinical analyzers, Aging testers etc.)
- For serum and blood fractionation
- For ophthalmic

## Main Specification

### Feed Water Requirements

- Feed Water – Potable Tap Water
- Feed water conductivity < 2000  $\mu\text{S}/\text{cm}$  or TDS < 1000 ppm
- Feed water pressure – (2-6) bar
- Operating temperature (5 – 35) $^{\circ}\text{C}$
- Feed water TOC < 1000 ppb (preferable)

### Flow rate

- Type 2 or EDI based production rate – 5, 10 and 15 L/hr.

### Product Water Quality

- Type 2 or EDI based water resistivity (@25 $^{\circ}\text{C}$ ) - > 5  $\text{M}\Omega\cdot\text{cm}$  (typically 10 - 16  $\text{M}\Omega\cdot\text{cm}$ )
- Type 2 or EDI based water TOC < 30 ppb

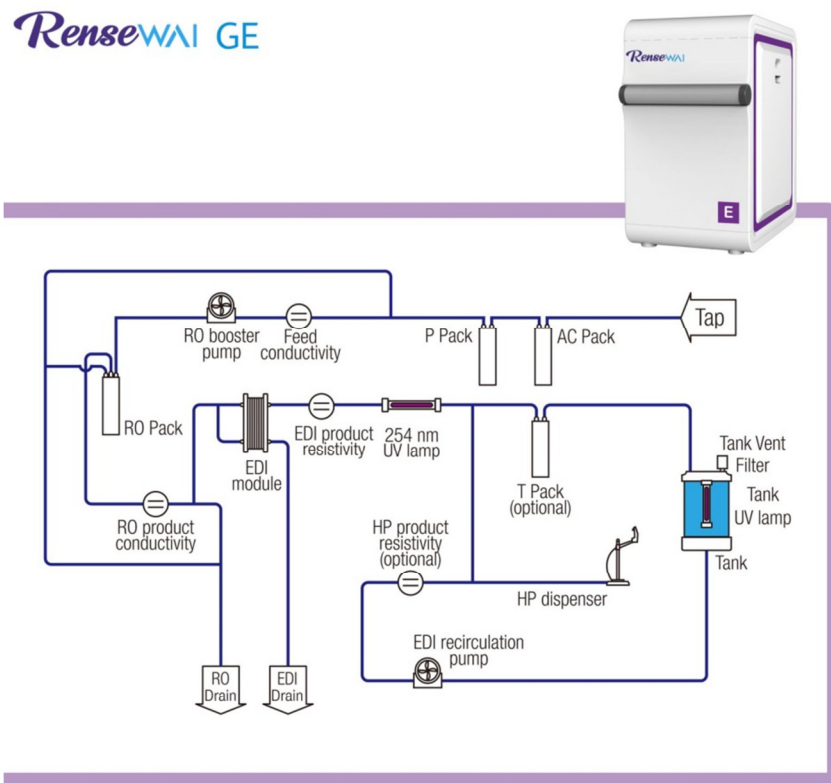
### Power

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



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## Flow Chart



## Ordering Information

SI.No.	Description	Catalogue No.
1	RenseWAI GE 5 System SET	RW0E00500K
2	RenseWAI GE 10 System SET	RW0E01000K
3	RenseWAI GE 15 System SET	RW0E01500K





## Standard contents of the Set

### **RenseWAI GE System Set consists of :-**

1. Main system
2. Control Console
3. RO membrane
4. UV lamp 254 nm (pre-installed)
5. AC Pack
6. P Pack
7. Reservoir 30 litre capacity, with tank level sensor
8. Tank vent filter (with Soda lime in granular form, which removes carbon dioxide CO<sub>2</sub> and Granular activated carbon or GAC, which removes organic matter from the air and 0.22 hydrophobic membrane, which removes air-borne bacteria)
9. 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)
10. 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)**



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

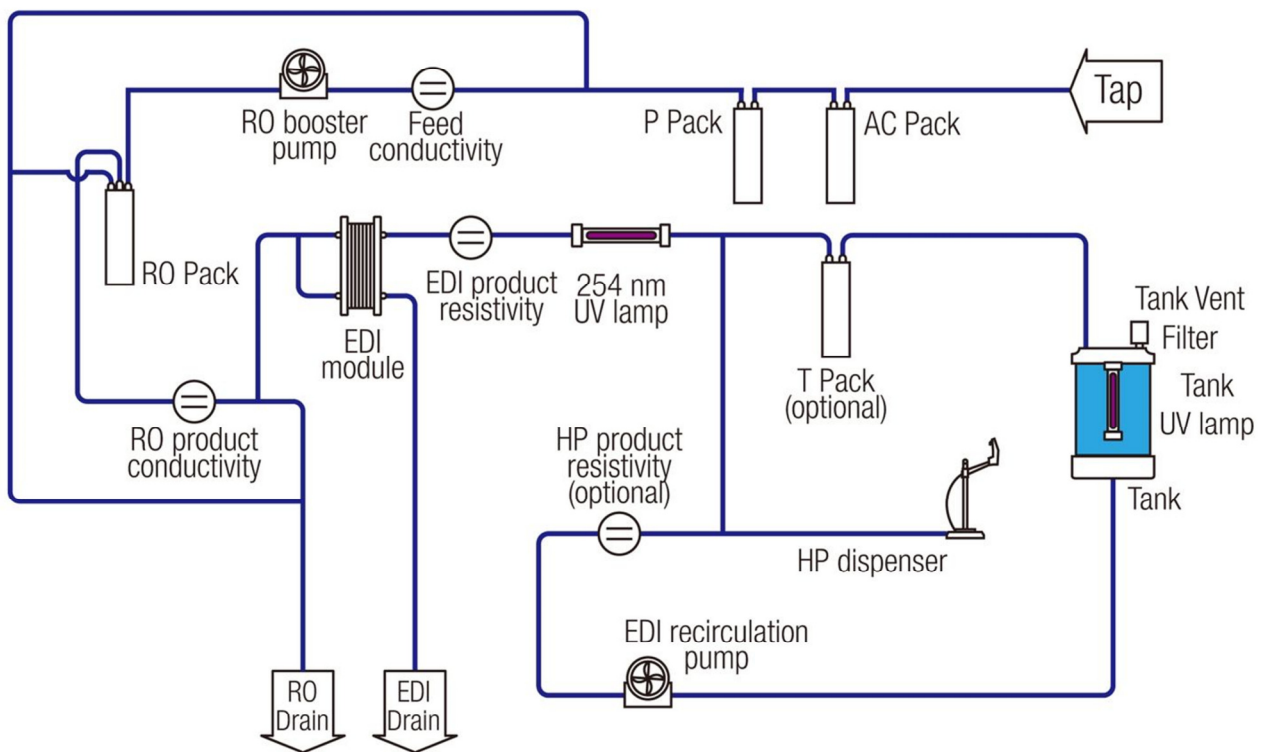


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