

# RenseWAI



## **RenseWAI DP Genie**

This integrated combo system produces Type 2 (RO + EDI) & Type 1 ASTM grade water quality, from a single system, with potable feed water as direct source.

### **Features**

- Type I ultrapure water and EDI (Type II) water are produced directly from potable tap water in one single system.
- System incorporates advanced RO technology and EDI technology to provide Type II water at a low operation cost.
- Pre-filtration system removes most particles, chlorine and organic compounds to protect RO membrane and EDI module to extend their usable lives.
- Internal P Pack cartridge further removes organics, particles and scaling ions to prevent them from fouling the RO membranes and the EDI module.
- RO membrane removes over 99% large molecules and particles as well as 95% ions in water.
- The automatic bypass sends the RO water to the drain, if it does not meet pre-set quality standard.
- The RO drain water is reused to increase the water yield. It is more environmentally friendly.
- Internal EDI module removes the remaining ions, further reduce the content of organic compounds and has a certain capacity to prevent the growth of bacteria from RO water.
- 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.
- Automatic cleaning cycles and self-maintenance functions for the RO membrane increase the lifetime and efficiency of the RO membranes, EDI module as well as the final polishing cartridge.
- Automatic hourly recirculation in the loop prevents bacterial growth and maintains water purity at all times.



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- Ultra purification cartridge is filled with LeFil™ and OrganeFil™ media to remove trace ions and organics.
- Built-in 254 nm lamp kills bacteria and 185/254 nm dual wavelength lamp reduces TOC level in ultrapure water.
- Flexible choices of final filters to remove specific contaminants for multiple applications.
- Large LCD screens on both the water system and the POU dispenser display critical information for instant access of system operation and performance parameters.
- EDI product water (Type II pure water) can be dispensed from both the water production unit and the reservoir, while ultrapure water is simply drawn at the push of a button on the handle of the water dispenser.
- The remote dispenser has a built-in high precision resistivity sensor with cell constant of  $0.01 \text{ cm}^{-1}$  to measure the quality of ultrapure water just prior to the dispensing point.
- Volumetric dispensing and calibration can be easily set up on the dispenser.
- The handle is 360 degree-rotatable and detachable from its support for effortless and instant dispensing with maximum flexibility.
- Standard equipped 30 L PE tank with conical bottom ensures no dead space to prevent bacteria growth.
- Tank vent filter has  $\text{CO}_2$  scavenger to remove airborne contaminants, including carbon dioxide and keeps water in the tank at best quality possible.
- Electrical and water compartments are completely separated, making the system safer to operate.

## Specification

### Feed Water Requirements

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

### Flow rate

- Type 2 or EDI based production rate @ 25°C– 5, 10 and 15 L/hr.
- Type 1 or Ultrapure Water dispensing flow rate - Upto 2 L/min

### Product Water Quality

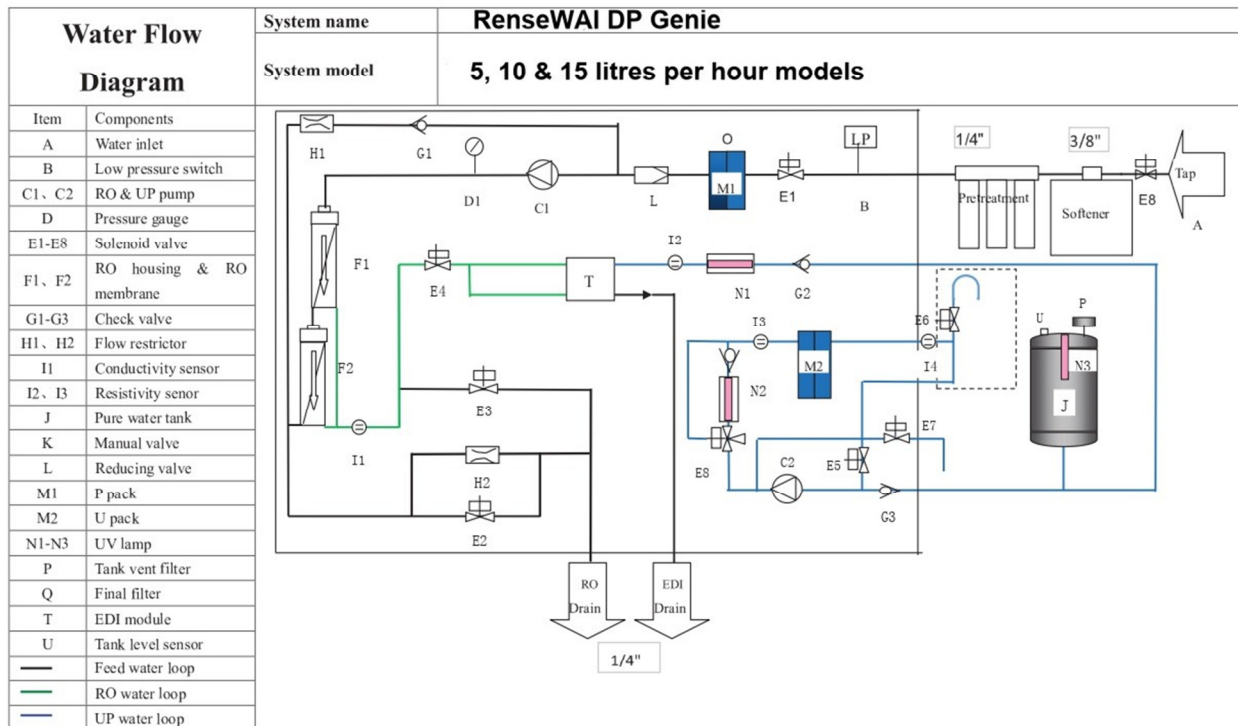
- Type 2 or EDI based water resistivity (@25°C) - > 5  $\text{M}\Omega\cdot\text{cm}$  (typically 10 - 16  $\text{M}\Omega\cdot\text{cm}$ )
- Type 1 Ultrapure water resistivity (@25°C) – 18.2  $\text{M}\Omega\cdot\text{cm}$
- Type 1 Ultrapure water TOC < 5 ppb (If feed water TOC < 30 ppb, preferably with (RO + EDI) technology)
- Particles in Ultrapure water of > 0.2  $\mu\text{m}$  - No particles (with a 0.2  $\mu\text{m}$  final filter or Bio filter unit)
- Microorganisms in Ultrapure water - < 0.01 cfu/ml (with a 0.2  $\mu\text{m}$  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
- Wattage < 150 W

## Flow Chart



## Ordering Information

SI.No.	Description	Catalogue No.
1	RenseWAI DP Genie 5 SET	RW0GP050EK
2	RenseWAI DP Genie 10 SET	RW0GP100EK
3	RenseWAI DP Genie 15 SET	RW0GP150EK
4	RenseWAI DP Genie 5 with TOC SET	RW0GP05TEK
5	RenseWAI DP Genie 10 with TOC SET	RW0GP10TEK
6	RenseWAI DP Genie 15 with TOC SET	RW0GP15TEK





## System Set Details

**RenseWAI DP Genie Water System Set includes the following items :-**

1. The main system
2. P Pack
3. U Pack
4. 0.22um final Filter
5. Remote Dispenser for Ultrapure Water, with in-built resistivity sensor, for Type 1 Ultrapure water dispensing
6. PE Tank of 30 litre capacity with liquid level sensor
7. 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)
8. UV Lamp, Dual Wavelength 185/254nm (pre-installed) (for Type 1) (for reduction of TOC levels)
9. UV Lamp 254 nm (pre-installed) (for Type 2) (for reduction in microbial content)
10. Prefiltration kit (3-stage), with 1, 10 micron & Carbon Cartridge, one each (1 micron + 10 micron + Carbon Cartridge of 3 micron pore size, included inside PF Kit. Quantity – 1 no. each, all 10" long)
11. 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)

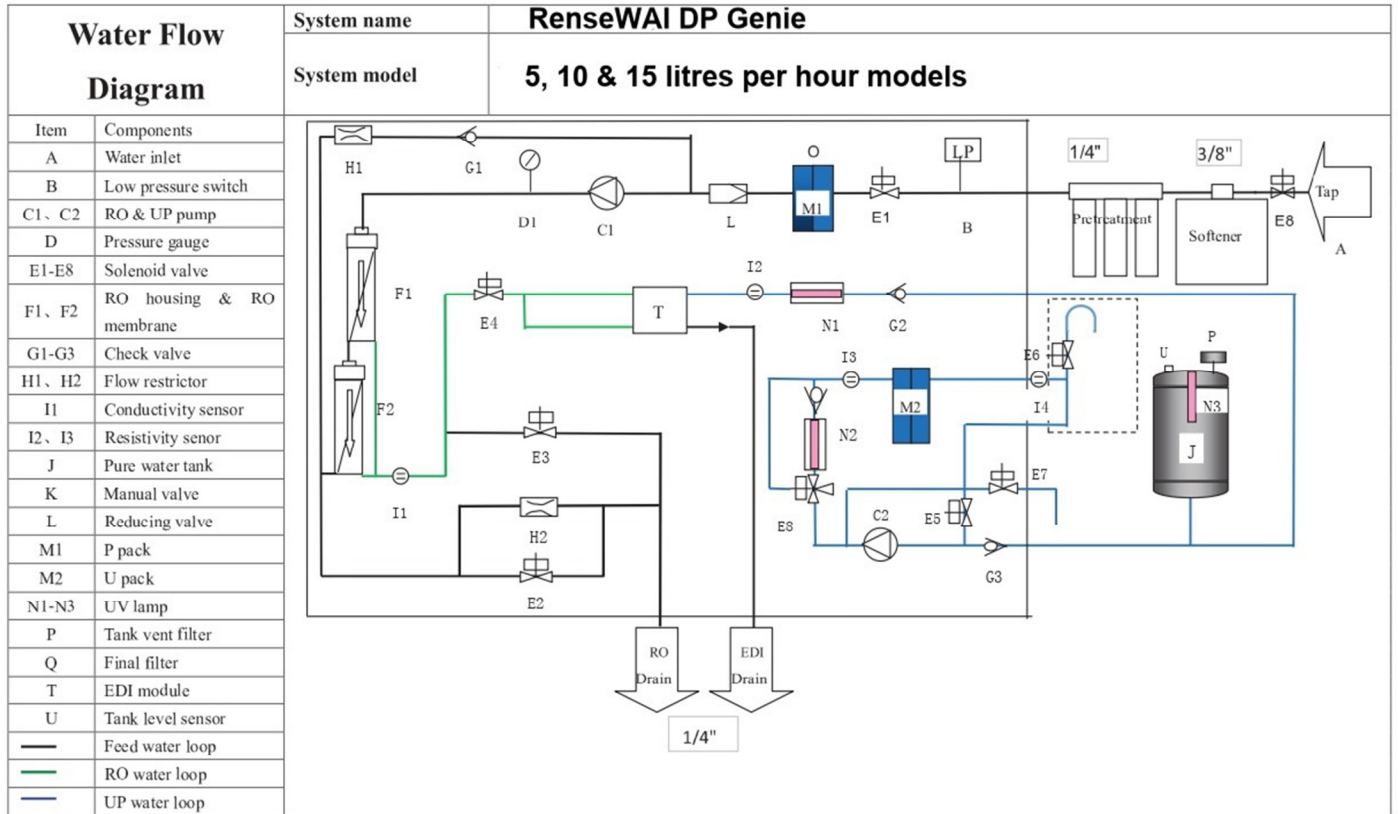


(Disclaimer – Please note photographs are for representation purpose only & can vary from the actual system)



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