



## **RenseWAI DP EDI**

RenseWAI DP EDI system produces Type 2 (RO + EDI) ASTM grade water quality, directly from potable feed water source.

### **Features**

- Type 2 (RO + EDI) based water is produced directly from potable tap water.
- The system incorporates the best in class Ionpure EDI module to deliver high quality Type II water consistently at relatively lower cost.
- Automatic water quality control programs ensure EDI product water meeting or exceeding Type II water requirements.
- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane life monitoring as well as many other programs for convenient operation.
- 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 bypath / bypass send the RO water to the drain if it does not meet preset quality standard.
- The RO drain water is reused / recycled to increase the water yield. It is more environmentally friendly.
- System automatically rinses a new RO membrane.
- Internal Ion-Pure EDI module removes the remaining ions, further reduces the content of organic compounds and has a certain capacity to prevent the growth of bacteria from RO water.



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- Ion exchange resins are continuously regenerated by an electric field. No costly resin replacement.
- 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.
- Built-in 254 nm lamp kills bacteria.
- The system is equipped with a 30-liter PE tank and a liquid level sensor and a tank vent filter with CO<sub>2</sub> scavenger to prevent EDI water from carbon dioxide contamination.
- Volumetric dispensing and calibration can be easily set up on the dispenser. (optional)
- The handle is 360 degree-rotatable and detachable from its support for effortless and instant dispensing with maximum flexibility. (optional)
- Electrical and water compartments are completely separated, making the system safer to operate.

## Main Applications

- Preparation of bio-reagents
- Preparation of culture media
- Preparation of solution for chemical analysis such as HPLC, ICP etc.
- For clinical analyzers
- Feed water for ultrapure water systems
- Medical device and equipment rinsing
- For serum and blood fractions

## Specification

### Feed Water Requirements

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

### Flow rate

- Type 2 or EDI based production rate @ 25°C– 5, 10 and 15 L/hr.

### Product Water Quality

- Type 2 or EDI based water resistivity (@25°C) - > 5 M $\Omega$ ·cm (typically 10 - 16 M $\Omega$ ·cm)
- TOC < 30 ppb (Depends on feed water quality)
- Particles in Ultrapure water of > 0.2  $\mu$ m - No particles (with a 0.2  $\mu$ m final filter or Bio filter unit)
- Microorganisms in Ultrapure water - < 0.01 cfu/ml (with a 0.2  $\mu$ m final filter or Bio filter)
- Pyrogens (Endotoxins) in ultrapure water < 0.001 EU/ml (with a Bio filter)

### Power

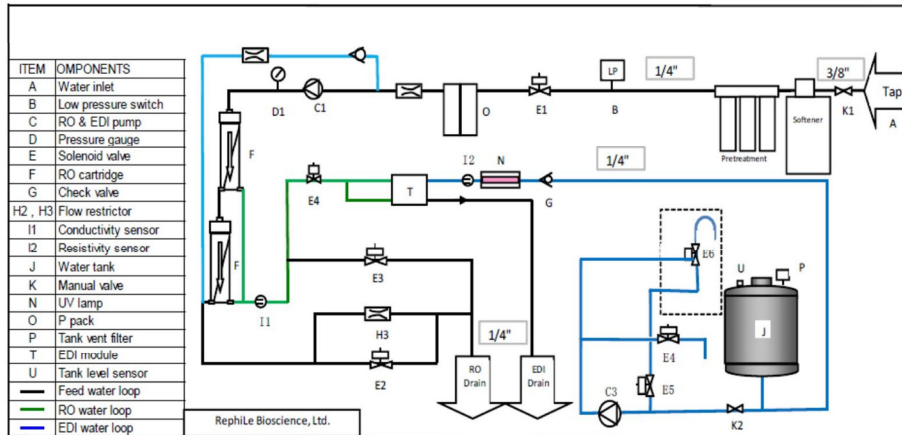
- Input Voltage - 110 - 240 VAC



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## Flow Chart

### RenseWAI DP EDI



## Ordering Information

SI.No.	Description	Catalogue No.
1	RenseWAI DP EDI 5 SET	RW0E0050EK
2	RenseWAI DP EDI 10 SET	RW0E0100EK
3	RenseWAI DP EDI 15 SET	RW0E0150EK
4	RenseWAI DP EDI 5 UV SET	RW0E0050UEK
5	RenseWAI DP EDI 10 UV SET	RW0E0100UEK
6	RenseWAI DP, EDI 15 UV SET	RW0E0150UEK
7	RenseWAI DP EDI 5 UV with dispenser SET	RW0EP050UEK
8	RenseWAI DP EDI 10 UV with dispenser SET	RW0EP100UEK
9	RenseWAI DP EDI 15 UV with dispenser SET	RW0EP150UEK





## System Set Details

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

1. The main system
2. P Pack
3. PE Tank of 30 litre capacity with liquid level sensor
4. 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)
5. 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)
6. 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)



**INITIATIVE**

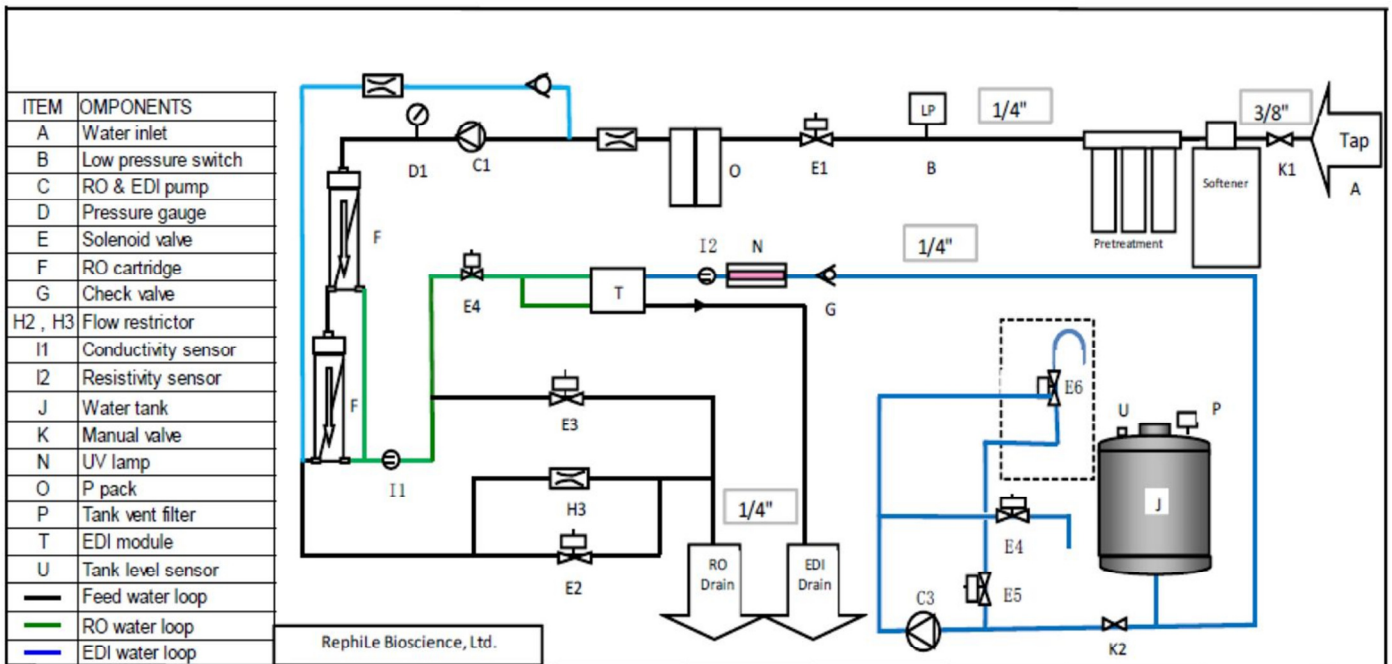
(Disclaimer – Please note photographs are for representation purpose only & can vary from the actual system)



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