



RenseWAI DP UP

The RenseWAI DP UP Ultrapure & RO Lab Water Purification System, is an integrated system, that produces Type 1 Ultrapure Water and Type 3 Reverses Osmosis (RO) water, directly from potable tap water.

Features

- Type I ultrapure water and RO water are produced directly from potable tap water in one single system.
- Electrical and water compartments are completely segregated, thus safer to operate.
- Pre-filtration system removes most particles, chlorine and organic compounds to protect RO membrane to extend their usable lives.
- 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 preset quality standard.
- The RO drain water is reused / recycled, to increase the water yield. It is more environmentally friendly.
- The fully automated control system contains pre-rinse, RO membrane fouling preventing flush, RO membrane and cartridge life monitoring as well as many other programs for convenient operation.
- Two sets of dual-column purification cartridges work sequentially to ensure thorough removal of ions and organics in water.
- Ultra purification cartridge is filled with LeFil™ and OrganeFil™ media to remove trace ions and organics.
- The system recirculates automatically every hour to prevent microbial from growing
- The system is equipped with a 30-liter PE tank and a liquid level sensor.



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- Tank vent filter has CO₂ scavenger to remove airborne contaminants, including carbon dioxide and keeps water in the tank at best quality possible.
- The separate remote dispenser has a built-in high precision resistivity sensor, with cell constant of 0.01 cm⁻¹, to measure the quality of ultrapure water just prior to the dispensing point, close to the POU (Point Of Use).
- Volumetric dispensing 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.
- A 0.2 µm final filter removes final contaminants.
- Large LCD screens on both the water system and the POU dispenser display critical information for instant access of system operation and performance parameters.

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

Specification

Feed Water Requirements

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

Flow rate

- Type 3 RO based production rate @ 25°C– 10, 20, 30 and 50 L/hr.
- Type 1 or Ultrapure Water dispensing flow rate - Upto 2 L/min



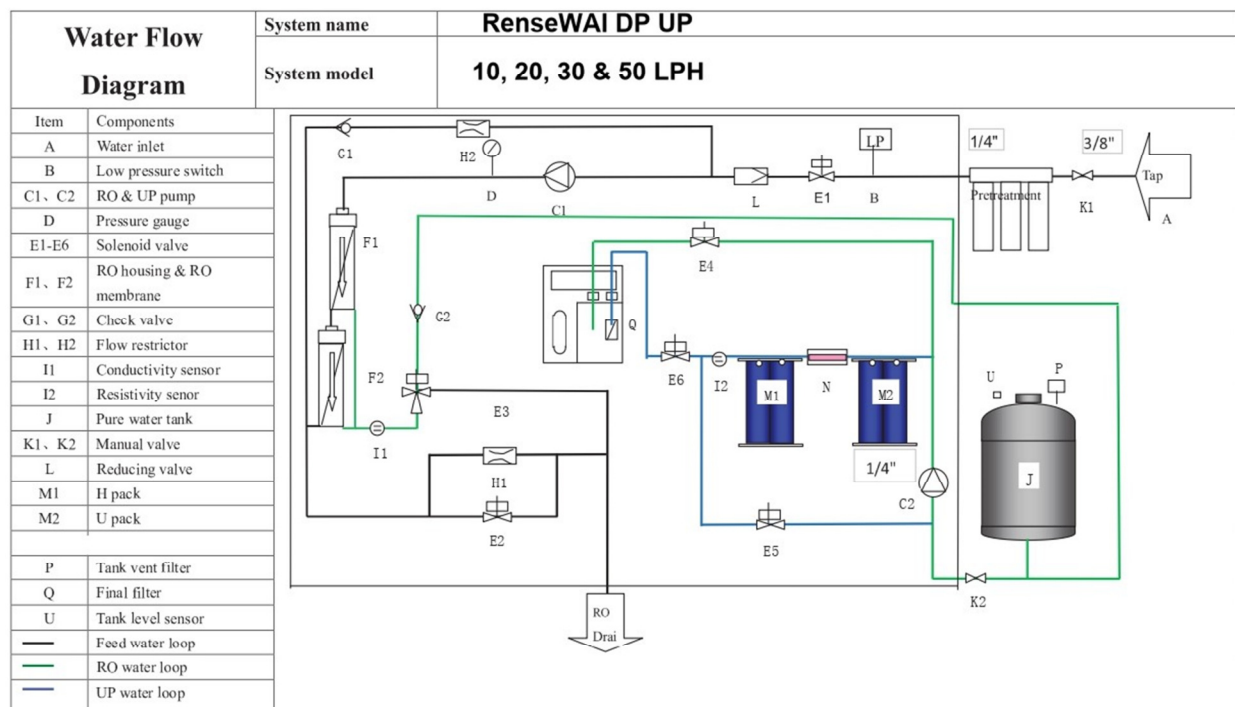
Product Water Quality

- 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
- Wattage < 150 W

Flow Chart





Ordering Information

Sl.No.	Description	Catalogue No.
1	RenseWAI DP UP 10 SET	RW0P0100EK
2	RenseWAI DP UP 20 SET	RW0P0200EK
3	RenseWAI DP UP 30 SET	RW0P0300EK
4	RenseWAI DP UP 50 SET	RW0P0500EK
5	RenseWAI DP UP 10 UV SET	RW0P010UEK
6	RenseWAI DP UP 20 UV SET	RW0P020UEK
7	RenseWAI DP UP 30 UV SET	RW0P030UEK
8	RenseWAI DP UP 50 UV SET	RW0P050UEK
9	RenseWAI DP UP 10 UV with dispenser SET	RW0PP10UEK
10	RenseWAI DP UP 20 UV with dispenser SET	RW0PP20UEK
11	RenseWAI DP UP 30 UV with dispenser SET	RW0PP30UEK
12	RenseWAI DP UP 50 UV with dispenser SET	RW0PP50UEK
13	RenseWAI DP UP 10 UV with dispenser and TOC SET	RW0PP10TEK
14	RenseWAI DP UP 20 UV with dispenser and TOC SET	RW0PP20TEK
15	RenseWAI DP UP 30 UV with dispenser and TOC SET	RW0PP30TEK
16	RenseWAI DP UP 50 UV with dispenser and TOC SET	RW0PP50TEK

Contents of the Set

RenseWAI DP UP Set consists of :-

1. Main system
2. RO membrane (preinstalled)
3. 30 L PE water tank with level sensor
4. Tank vent filter with CO2 remover
5. H Pack cartridge
6. U Pack cartridge
7. Final Filter 0.22 micron
8. 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)

9. 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)



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Photographs (Representative only)

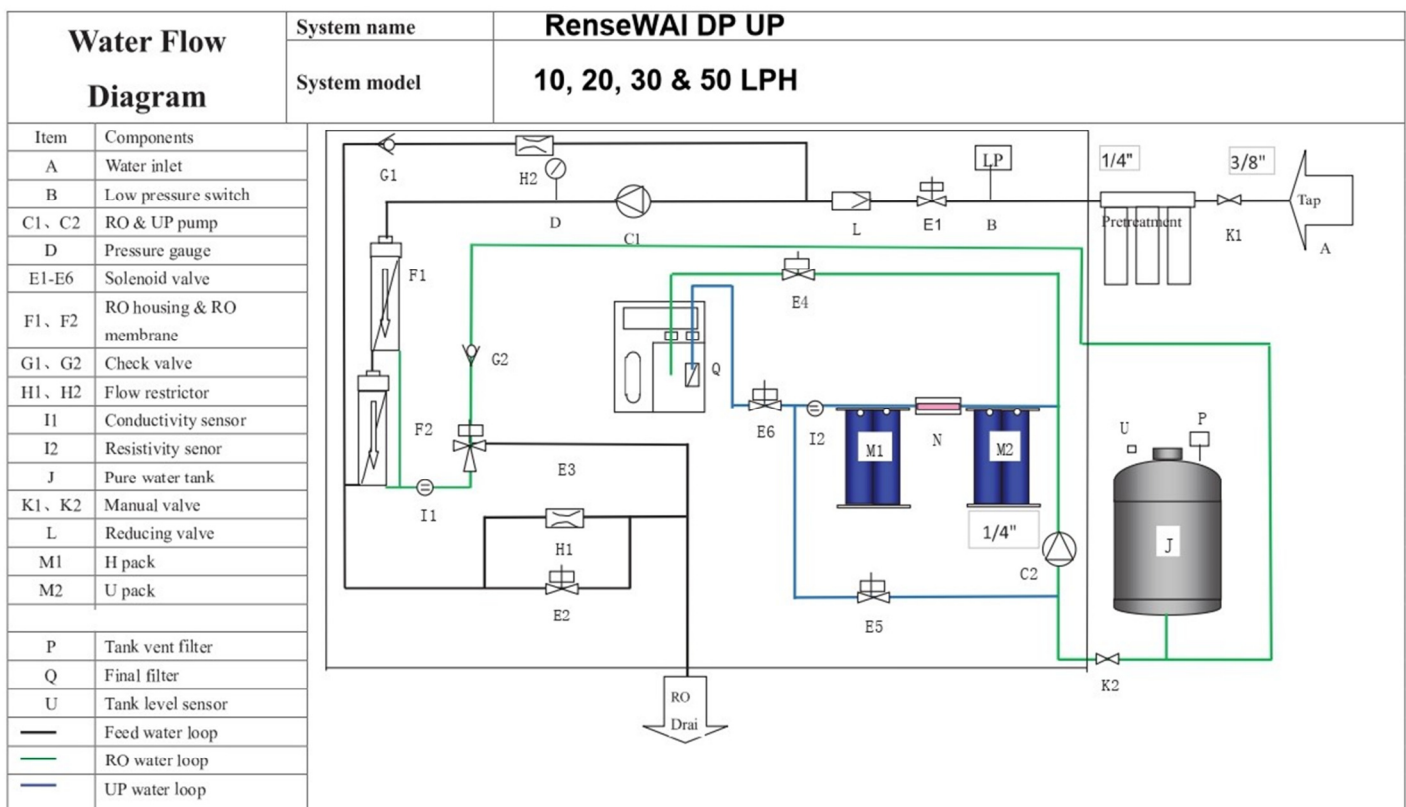


(Disclaimer – Please note photographs are for representation purpose only & can vary from the actual system)



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