



Multiplelabs
Turnkey Laboratories Solutions

Ultra Series (Type I and II)

Water Purification System



►► Application

- Biochemical analysis of chemical reagents;
- Buffer conventional physical and chemical detection;
- Physical and chemical testing and other conventional qualitative and quantitative analysis
- Atomic absorption (AA)
- Atomic emission (AES);
- High performance liquid chromatography (HPLC);
- Ion chromatography (IC);
- Mass spectrometry (MC);
- Plasma emission spectroscopy (ICP) and other instrumental analysis
- Organic and inorganic trace analysis
- Molecular biology
- Microbiology
- PCR analysis
- Cell culture
- Cell and cultivation medium preparation
- Monoclonal antibody production
- Gel electrophoresis analysis
- Feed water: Potable tap water: TDS<1000ppm, 5-40°C, 1.0~5.0Kg/cm²

►► Features

- It is the most representative products in lab water market.
- PLC auto controlling system and LED display.
- 2 way flow sensor, achieve quantified dispensing of ultrapure water
- System circulation function through recirculation pump, achieve ultrapure water's circulation to keep top quality of ultrapure water
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm light display function for feed water, full water, water quality's standard exceeding, and cartridge life ending
- 50 Liter capacity blow molded flat bottom PE reservoir water tank with flow sensor switch with a vent filter to resist aerobent contamination consisting with 0.65micron filter, activated carbon and soda-lime for the removal of particulates, CO₂, N₂ etc.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, active carbon cartridge, softening resin, and 0.22 micron filter), effectively protect RO membrane
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- ultrapure cartridge with DOW's top polishing resin
- A final ultra-pure water purification system to produce TYPE I connected with the tank.
- Three-way solenoid valve (SOV) to manage product water dispensing.
- Operating Pressure : 1 to 6 bar

►► Technical Data

Output (Tank is empty, 25°C)	10 liter/hour
Flow rate (Tank is full)	2 liter/min
UP water resistivity	18.25MΩcm@25°C
Heavy metal ion	<0.1ppb
TOC	<3ppb
Microbe (Bacteria)	<0.1CFU/ml
Particles(>0.2 μm)	<1/ml
RNases	<0.003ng/ml
DNases	<0.4pg/ μl
Outlet	UP water
RO water Quality	Ion rejection rate: >98% (New RO membrane) Organic
Rejection ratet	99%, Particles and bacteria rejection rate: >99%
Device Dimention/weight	540 x 290 x 380 mm / 10 Kg
Electric supply	220V,50/60Hz, 50W
Working Condition	Good
Environmental temperature	5°C~45°C
Relative humidity	20%~80%