

Water Purification System LWPS-A10



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Water Purification System LWPS-A10 is a Type I water treatment system and the feed water is RO or distilled water. It mainly consists of pretreatment system, RO system, ultrapure water system conveying unit and control system. It consists of 254 nm UV lamp to remove the bacteria in the system and 185 nm UV lamp to reduce TOC. Fully automatic control over the whole process, e.g. automatic water preparation, when water tank is full, automatically stop the system and cut off the power and water. Built-in RO membrane timing automatic flush procedures, and manual RO membrane cleaning button is available.

Features

- Millipore BioPak UF membrane to reduce the pyrogen, RNase, DNase
- Ultra-purification system: Millipore ion exchange resin cartridge and special flow design, high ultra-purify efficiency.
- Effectively remove the trace ions in water; guarantee the stability of water quality
- Micro filtration: Making the particles content (larger than 0.22 μm) is $<1 / \text{ml}$ and bacteria less than 0.1 CFU/ ml
- Built-in manual water cycling program and ultrapure water auto-cycle program to keep the water quality of ultrapure water
- Water resistance on-line monitoring, realizing man-machine conversation
- System can be installed on the lab bench
- 30 L PE water reservoir with vent valve

Applications

Used for Medical device injection to human body, DNA/RNA preparation, DNA testing, HPLC (test and analysis of amino acid, penicillin; Organic ingredients), GCMS, ICP, IC, gas chromatography, AAS etc.

Specifications

Model No	LWPS-A10
Water quality	One stage (Type I)
Feed water	RO water /Distilled water Water temperature: 5 °C ~ 40 °C
Resistivity	18.25 MΩ.cm @ 25 °C
TOC	< 5ppb
Bacteria	< 0.1 cfu/ml
Endotoxin	< 0.001 EU/ml
Particle	(> 0.22μm) <1/ml
Absorbance	(254nm, 1cm optical distance) < 0.001 EU/ml
Reactive Silica (SiO ₂)	< 0.01 ppm
RNases	< 0.01 ng / ml
DNases	< 4 pg/μl
Temperature	5 °C ~ 40 °C
Humidity	10 % ~ 80 %
Water production rate	Type 1 water flow rate: 1-1.5 L/min
Micro filtration	Millipore Millipak 0.22μm membrane or hollowed fiber membrane filter
Power supply	230 V/50 Hz 150 W
Main body Dimension (L × W × H)	340 × 550 × 530 mm (bench type)

Flow schematic

RO pure water → Pure water tank → Pure water conveying pump → UV lamp → Ultra-purification package → Ultra-purification cartridge → UF filter → Micro-filter → Type I ultrapure water outlet