

Ultra-pure Water-Purifier, LWP-S3 Series

LWP-S3-10LS LWP-S3-30LS LWP-S3-10MB LWP-S3-30MB
 LWP-S3-10TA LWP-S3-30TA LWP-S3-60TA LWP-S3-90TA
 LWP-S3-10GA LWP-S3-30GA LWP-S3-60GA LWP-S3-90GA



Full-intelligent control system

Full-intelligent control system supports multiuser, independent valuation and secondary factory and user password. System settings are all protected by password to avoid unauthorized change.

The system functions on online diagnosis of malfunctions (quality of source water, pre-pure water and UP water), warming or auto shutdown, intelligent trouble diagnosis of key components (magnetic valve booster pump, UV lamp and sensor, etc.) and online replacement and indication.



Influent quality will affect the quality of pure water and the service life of purified column.

PP: Integrated PP cotton DI: Ion exchange UV: UV lamp sterilizer UF: Ultra filter TF: Terminal filter.

Determined by influent quality.

Effluent rate will decrease when terminal filter or ultrafilter is installed.

Product Advantages



The machine adopts Japanese cold cathode UV sterilizer imported with original packaging, which features as follows

- ◆ Alloy electrode, non-filament
- ◆ The service life will not be affected by repeated ON/OFF
- ◆ Longer service life (the maximum life is 50,000h)
- ◆ Smaller volume (pipe diameter: $\Phi 4.0\text{mm}$, pipe length: 150mm)
- ◆ Dual wavelength (185nm & 254nm), thorough sterilization + degradation of TOC
- ◆ With strong vibration strength and unique cuppy electrode, it will not be broken due to impact and can avoid damaging UV tube during transportation and disabling the machine.

Product Advantages

It is an integrated system using Pure water or DI water to produce UP water.



The controller uses international advanced 32-digit micropower processor as the core and features ultrahigh operating rate and low power consumption. The system adopts advanced EMC design, features strong interference immunity, low noise and strong surge resistance and enables reliable, stable and long-term operation of the controller;



The function of automatic and manual washing and circulation extends the service life of American Dow RO film imported with original packaging and reduces bacterial contamination of pure water machine;

Resistance constant of conductivity meter: 0.01cm-1, temperature sensitivity: $\pm 0.1^\circ\text{C}$, automatic temperature compensation;

- ◆ The main power supply is 24VDC (low voltage) which conforms to the safety code. ABS engineering plastic housing and water-power separated structure adapt to humid environment, avoid damaging human body and produces ultralow radiation.
- ◆ According to operating requirements, various terminal treaters are optional for water intake. which can effectively remove contaminants such as endotoxin, nuclease, ultratrace organics, endocrine disruptor EDS and VOC and satisfy different experimental requirements.



Application Range

Life Science: LWP-S3-LS series

PCR application and system, electrophoresis, gel analysis, DNA sequence analysis, endotoxin analysis, cell immunochemistry, nucleic acid and protein separation, monoclonal antibody research and other experiments

Trace Analysis: LWP-S3-TA series

Ultratrace and trace organic, organic analysis, graphite furnace atomic absorption spectrometry (GFAAS), gas chromatography- mass spectrometry (GC-MS), high performance liquid chromatography (HPLC), plasma mass spectrometry (ICP-MS), ion mass spectroscopy (IC), TOC analysis and solid phase extraction(SPE)

Molecular Biology: LWP-S3-MB series

Tissue and cell culture of mammals, microbiological analysis, molecular biology research, tissue and cell culture of plants

Basic Application: LWP-S3-GA series

Atomic absorption spectroscopy (AAS), atomic fluorescence, general chemistry, inductive coupling and inductively coupled plasma-atomic emission spectrometry (ICP-AES).

Cell and culture medium preparation

Specifications

Name	Life Science		Trace Analysis		Molecular Biology		Basic Application	
Product Type	LWP-S3-LS series		LWP-S3-TA series		LWP-S3-MB series		LWP-S3-GA series	
Model	LWP-S3-10LS, LWP-S3-30LS,		LWP-S3-10TA, LWP-S3-30TA, LWP-S3-60TA, LWP-S3-90TA		LWP-S3-10MB, LWP-S3-30MB		LWP-S3-10GA, LWP-S3-30GA, LWP-S3-60GA, LWP-S3-90GA	
System Process	PP+UV+DI+UV+UF+TF		PP+UV+DI+UV+TF		PP+UV+DI+UV+UF		PP+UV+DI+UV	
Influent Requirement	Pure water or DI water, pure water conductivity≤3us/ml							
Indexes of UP Water								
Resistivity	18.2MΩ.cm@25°C							
PM (>0.2μm)	<1cfu/ml							
Bacteria	<0.1cfu/ml							
Total Organic Carbon (TOC)	<3ppb				<5ppb		<10ppb	
Heat Source (Endotoxin)	<0.001Eu/ml		<0.002Eu/ml		<0.001Eu/ml		N/A	
Ribonuclease (RNases)	<0.01ng/ml		N/A		<0.01ng/ml		N/A	
Deoxyribonuclease (DNases)	<4pg/ul		N/A		<4pg/ul		N/A	
Indexes of DI Water								
Heavy Metal Ion	<0.1ppb							
Water Yield (25°C)	10/30/60/90L/H							
Instantaneous Water Yield	1.5-2.0L/min							
Water Outlet	1PCS.: UP water							
Size/Weight	(W*D*H) 500×400×580mm/ about 38Kg							
Power Supply/Power/Noise	220V50HZ/ 50-80W/ <50db							
Standard Configuration	Host (including 1 set of purified column) + accessory bag							