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WATER PURIFIER



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Infitek Co., Ltd.

TEL: +86-531-88982330
FAX: +86-531-88983691
Website: infitek.com
Email: info@infitek.com
Service: support@infitek.com
Address: Rm. 2014, Bldg. 3, Ligaoguoji Huayuan, No. 1222, West Aoti Road, Lixia District, Jinan, Shandong

US Office

INFITEK INC.

522W RIVERSIDE AVE STE N, SPOKANE, WA 99201
EMAIL: INFO@INFITEK.COM



VERSION.2023

Ultra-pure Water-Purifier, LWP-P3 Series

LWP-P3-10LS LWP-P3-20LS LWP-P3-30LS LWP-P3-40LS
 LWP-P3-10TA LWP-P3-20TA LWP-P3-30TA LWP-P3-40TA
 LWP-P3-10MB LWP-P3-20MB LWP-P3-30MB LWP-P3-40MB
 LWP-P3-10GA LWP-P3-20GA LWP-P3-30GA LWP-P3-40GA



7.0 inch color capacity touch screen and animation menu, The system is switchable between Chinese and English interfaces and is user-friendly. It is equipped with IR remote control, one key ON/OFF, one-key pure water and UP water intake as well as one key circulation and washing.



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 ultra low radiation. The pure water pipe and joint have both passed NSF certification.

Full-intelligent control system

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

The system collects monitored data in real time and inquires them online. USB Host interface can be used to export historical alarm record and historical water intake record.

Product Advantages

It is an integrated system which produces pure water and UP water using tap 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.

Water can be stored in both a pressure barrel and a water tank., The system can display the volume of stored water to satisfy different user needs.



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

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.

The system can intake water qualitatively and quantitatively at fixed time. The system functions on system time setting (Y/M/D/Hr/Min), timed standby (0-60min) and timed shutdown (0-24h).

The system functions on online diagnosis of malfunctions (quality of source water, pre-pure water and UP water), warming or auto shutdown, indication.



External 12L pressure barrel

Application Range

Life Science: LWP-P3 LS Series

Electrophoresis, endotoxin analysis, cell immunochemistry, nucleic acid and protein separation, amino acid analysis, culture medium preparation for gel analysis, monoclonal antibody research and other experiments.

Trace Analysis: LWP-P3 TA Series

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-P3 MB Series

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

Basic Application: LWP-P3 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-P3 LS Series	LWP-P3 TA Series	LWP-P3 MB Series	LWP-P3 GA Series
Model	LWP-P3-10LS, LWP-P3-20LS, LWP-P3-30LS, LWP-P3-40LS	LWP-P3-10TA, LWP-P3-20TA, LWP-P3-30TA, LWP-P3-40TA	LWP-P3-10MB, LWP-P3-20MB, LWP-P3-30MB, LWP-P3-40MB	LWP-P3-10GA, LWP-P3-20GA, LWP-P3-30GA, LWP-P3-40GA
System Process	PF+PP+RO+DI+UV+DI+UV+UF+TF	PF+PP+RO+DI+UV+DI+UV+TF	PF+PP+RO+DI+UV+DI+UV+UF	PF+PP+RO+DI+UV+DI+UV
Influent Requirement	Urban tap water: TDS<200ppm, 5-45°C, 1.0-4.0Kgf/cm ³ (if influent TDS>200ppm, external softener is recommended)		Urban tap water: TDS<200ppm, 5-45°C, 1.0-4.0Kgf/cm ³ (if influent TDS>200ppm, external softener is recommended)	
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				
Conductivity	Conductivity<1us/cm@25°C (single-stage RO + DI), ion rejection rate: 96-99% (when new RO film is used),organic rejection rate: >99% (when MW>200 Dalton)		Conductivity<1us/cm@25°C (single-stage RO + DI), ion rejection rate: 96-99% (when new RO film is used), organic rejection rate: >99% (when MW>200 Dalton)	
Heavy Metal Ion	<0.1ppb			
Water Yield (25°C)	5/10/20/30/40L/H			
Instantaneous Water Yield	1.5-2.0L/min (pressure barrel is needed)			
Water Outlet	2PCS.: DI water, UP water			
Size/Weight	(W*D*H) 500×400×580mm/ about 38Kg			
Power Supply/Power/Noise	220V50HZ/ 50-80W/ <50db			

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: Φ 4.0mm, 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 \leq 3us/ml			
Indexes of UP Water				
Resistivity	18.2M Ω .cm@25°C			
PM (>0.2 μ m)	<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			

Ultrapure Water Purifier, LWP-S3-2 series

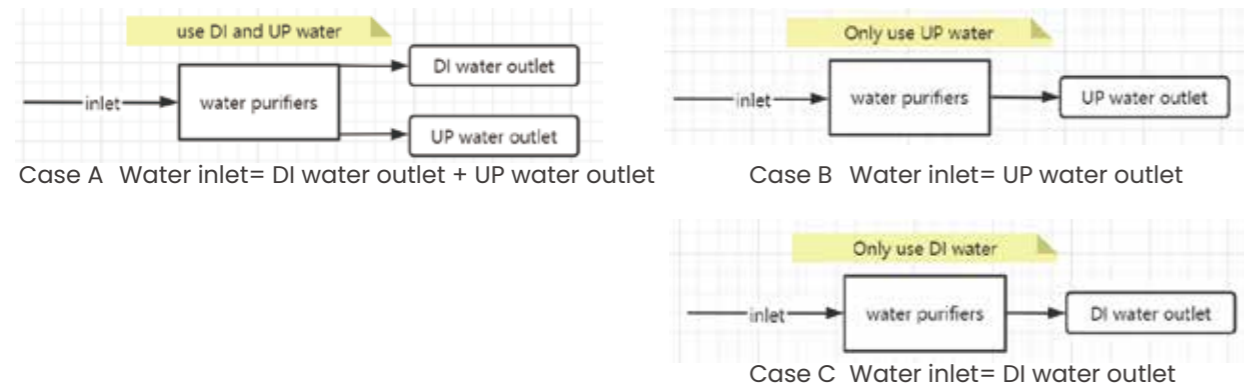
LWP-S3-2E LWP-S3-2F LWP-S3-2V LWP-S3-2VF



Selling point

- Backlight LIQUID crystal display, dual waterway online monitoring
- With RS-232C communication interface output
- Equipped with portable test pen
- With ultra-pure water internal circulation system

Water inlet= water outlet (water outlet≤120LPH, normal 90 LPH)



Features

- ◆ The chassis adopts plastic spraying technology, side door design, filter system adopts 11 inch U type Korean fast insert filter column replacement and maintenance is more convenient, with water quality and quantity upgrade function.
- ◆ Backlight LIQUID crystal display, dual waterway online monitoring, can display RO conductivity value, UP resistivity value and equipment operation status indication.
- ◆ Menu operation, can modify and set a number of measurement parameters; With a number of running status display and indicator prompt, timely reflect the running status of equipment high pressure shutdown, low pressure alarm, water full shutdown and so on.
- ◆ RO water ultra pure water quality alarm prompt automatic prompt filter element replacement, can set the water intake time; Touch the water button, RO UP water indicator automatically prompt.
- ◆ Equipped with portable test pen, can test TDS content, conductivity, water temperature anytime and anywhere

Product innovation highlights

01 Pure water inlet
Bottled water, bottled water, Reverse osmosis water, Distilled water

02 Intelligent menu operation
Two-way water quality monitoring

03 High-quality accessories

Application Field	
Physicochemical analytical type	All kinds of physical and chemical testing, biochemical analysis, blood examination, microanalysis, flushing special, HPLC, IC, GC, analysis experiment
Ultra low organic type	Atomic absorption/emission spectrometry, mass spectrometry, TOC detection, environmental monitoring, biochip development, trace organic matter analysis
Ultralow element type	High sensitivity ICP/MS, PCR, PPT level analysis, isotope analysis, molecular biology, life science, CDC, drug control institute, quality inspection institute, university scientific research and other standard laboratories and a variety of high-end precision instrument water
Comprehensive	Molecular biology, Life sciences, gene research, cell culture, amino acid analysis, protein purification, toxicology, drug development, medical testing



Consumable filters, elements of the machine

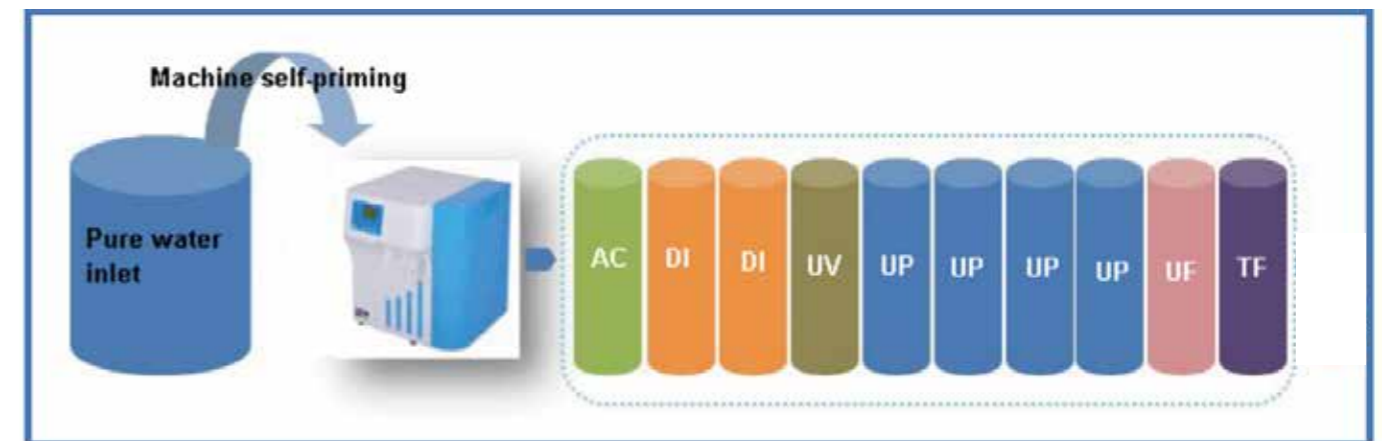
Specifications

LWP-S3-2 series				
Type	Physicochemical	Low endotoxin	Low TOC	Comprehensive
Model	LWP-S3-2E	LWP-S3-2F	LWP-S3-2V	LWP-S3-2VF
Water requirements	Pure/distilled water enters the water			
DI water indicators				
Resistivity	10 to 16 MΩ. cm @ 25 °C			
Electrical conductivity	< 0.1 us/cm			
UP water indicators				
Resistivity (25 °C)	18.2 MΩ. Cm @ 25 °C			
Heavy metal ion	< 0.01 PPb			
Total organic carbon (TOC) *	<10 PPb		<3 PPb	
Bacteria	< 0.01 cfu/ml			
Pyrogen (endotoxin)	N/A	< 0.001 Eu/ml	N/A	< 0.001 Eu/ml
Particulate matter (> 0.1 microns)	<1/ml			
Ribonuclease (RNases)	N/A	<1pg/ml	N/A	<1pg/ml
Deoxyribonucleases	N/A	<5pg/ml	N/A	<5pg/ml
Dimensions (L*W*H)	45*47*55 cm			
Weight	32Kg	33Kg	33Kg	34Kg
Electricity	100-240V, 50/60Hz, 48-72W			
System configuration	Host (including 1 set of purification column)+TDS pen + accessory bag			

Optional Features

- ◆ Pipeline adopts fast plug interface, pipeline joint is certified by NSF, dual wavelength UV lamp, effective sterilization and TOC reduction, original imported 5000D ultrafiltration component, effective removal of endotoxin and heat source (optional)
- ◆ With RS-232C communication interface output, can be connected with the intelligent instrument with RS-232C interface, to achieve the transmission of measurement data or print records (optional)
- ◆ 3 meters telescopic water gun, water more convenient, more scientific work (optional).
- ◆ The system can be equipped with ultra-pure water internal circulation system, water quality can be stable at the highest value at any time.(optional)

Product system filtration steps







Ultrapure Water Purifier, LWP-S3-2D series

LWP-S3-2DE LWP-S3-2DF LWP-S3-2DV LWP-S3-2DVF



Features

-  Applicable to various water quality, the case is with powder coating.
-  The filter element of the system adopts injection molding technology and is built in the chassis
-  Pipelines are NSF certified, with water quality and quantity upgrade function.
-  Equipped with portable TDS pen, you can test TDS content, conductivity, water temperature anytime and anywhere.

Specifications

Type	Physicochemical	Low endotoxin	Low TOC	Comprehensive
Model	LWP-S3-2DE	LWP-S3-2DF	LWP-S3-2DV	LWP-S3-2DVF
Water requirements	Pure/distilled water enters the water			
DI water indicators				
Resistivity	10 to 16 MΩ. cm @ 25 °C			
Electrical conductivity	< 0.1 us/cm			
UP water indicators				
Resistivity (25 °C)	18.2 MΩ. cm @ 25 °C			
Heavy metal ion	< 0.01 PPb			
Total organic carbon (TOC) *	<10 PPb		<3 PPb	
Bacteria	< 0.01 cfu/ml			
Pyrogen (endotoxin)	N/A	< 0.001 Eu/ml	N/A	< 0.001 Eu/ml
Particulate matter (> 0.1 microns)	<1/ml			
Ribonuclease (RNases)	N/A	<1pg/ml	N/A	<1pg/ml
Deoxyribonucleases	N/A	<5pg/ml	N/A	<5pg/ml
Dimensions(L×W×H)	41*27*50cm			
Weight	30Kg	31Kg	32Kg	
Electricity	100-240V, 50/60Hz, 48-72W			
System configuration	Host (including 1 set of purification column)+TDS pen + accessory bag			



front

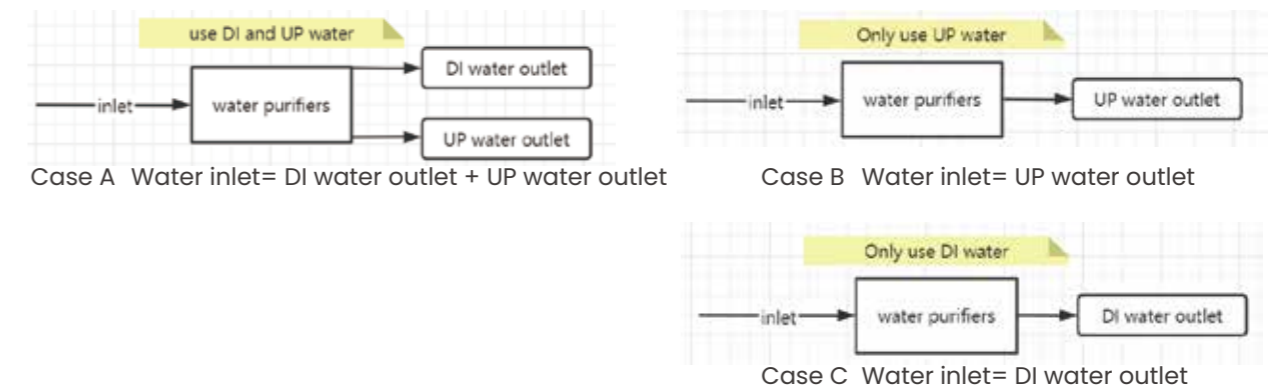


back

Specifications

- ◆ Double electric water intake, two kinds of water, ready to use.
- ◆ Front and back door design, simple and quick replacement of filter element, the whole process without using any tools, easy to complete the replacement of filter element.
- ◆ Korean-style fast insert filter column replacement maintenance convenient replacement
- ◆ Electrical appliances and waterways are completely separated to avoid circuit failures caused by moisture and water leakage.
- ◆ Water quality on-line monitoring system, which can measure the quality of produced water in real time;
- ◆ Automatic RO film anti-scale washing procedure, automatic shutdown when the tap water is cut off, automatic replenishment of the water storage bucket, automatic shutdown when the water storage bucket is full.

Water inlet= water outlet (water outlet≤120LPH, normal 90 LPH)



Application Field

Physicochemical analytical type	All kinds of physical and chemical testing, biochemical analysis, blood examination, microanalysis, flushing special, HPLC, IC, GC, analysis experiment
Ultra low organic type	Atomic absorption/emission spectrometry, mass spectrometry, TOC detection, environmental monitoring, biochip development, trace organic matter analysis
Ultralow element type	High sensitivity ICP/MS, PCR, PPT level analysis, isotope analysis, molecular biology, life science, CDC, drug control institute, quality inspection institute, university scientific research and other standard laboratories and a variety of high-end precision instrument water
comprehensive	Molecular biology, Life sciences, gene research, cell culture, amino acid analysis, protein purification, toxicology, drug development, medical testing

Ultra-pure Water Purifier

LWP-F2-10 LWP-F2-20 LWP-F2-30
 LWP-F2-F10 LWP-F2-F20 LWP-F2-F30
 LWP-F2-V10 LWP-F2-V20 LWP-F2-V30
 LWP-F2-VF10 LWP-F2-VF20 LWP-F2-VF30



Product Features



Applicable to various water quality, the case is with powder coating. Online water quality monitoring system, immediately measure the output water quality.



The filter element adopts open mold injection technology and inside the machine Korean quick-insert filter column is easy to replace and maintain. The electrical appliance and waterways are completely separated to avoid circuit failure caused by moisture and water leakage.



NSF certified pipeline has function of upgrading water quality and quantity. Equipped with a portable TDS pen, you can test TDS content, conductance, water temperature anytime, anywhere.



Automatic RO membrane anti-scaling flushing program, automatic stop when tap water break, automatic water breaking when machine stop, storage tank automatically fill water, automatic stopping when water is full.



Double electric water intakes, two kinds water quality, ready to use. Pressure online monitoring. Open door at front and back, this make filters replacement easy & convenient, the replacement can be easily completed without using any tools. Double water intakes: RO water and UP water



Filter function

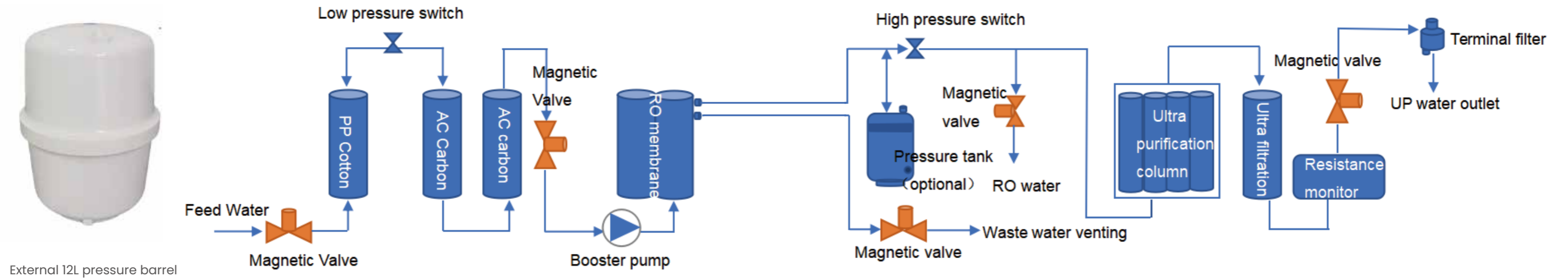
- ◆ PP: PP cotton filter, except for sediment, rust, sludge, colloid, etc.
- ◆ AC: Granular activated carbon filter: except for color, odor, residual chlorine and heavy metals
- ◆ AC: Precision activated carbon filter: further removal, extending the life of the purification column
- ◆ RO: Reverse osmosis membrane filter: filter out <1nm pollutants, ions, particles
- ◆ UP: Ultra-purification column: ion exchange resin bed, H⁺ and OH⁻ ion removal
- ◆ TF: 0.2μm terminal filter



Application

Applicable to all kinds of physical and chemical detection, biochemical analysis, blood examination, micro analysis, washing, HPLC, IC, GC, analytical experiments.

Process



Specifications

Model	LWP-F2-10	LWP-F2-20	LWP-F2-30	LWP-F2-F10	LWP-F2-F20	LWP-F2-F30	LWP-F2-V10	LWP-F2-V20	LWP-F2-V30	LWP-F2-VF10	LWP-F2-VF20	LWP-F2-VF30
Inlet water source	Urban tap water, inlet water pressure: 0.15-0.5MPa, water temperature 5-40°C						Urban tap water, inlet water pressure: 0.15-0.5MPa, water temperature 5-40°C					
Water flow speed	1.5-2L/min (with pressure barrel)						1.5-2L/min (with pressure barrel)					
Machine capacity	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H
Output Water quality	RO water: desalination rate as high as 95-99% (when using new RO membrane)						RO water: desalination rate as high as 95-99% (when using new RO membrane)					
	UP water: Resistivity 18.25MΩ.cm@25°C (higher than laboratory water standard) TOC: <10 ppb, particles (>0.22 um) <1/ml, microorganism <1 cfu/ml			UP water: resistivity 18.25MΩ.cm@25°C, TOC: <10 ppb, particles (>0.22 um) <1/ml, microorganism <1 cfu/m, pyrogen<0.001 EU/ml, RNases≤0.01ng/ml, DNases≤3Pg/ul			UP water: resistivity 18.25MΩ.cm@25°C, TOC: <3 ppb, particles (>0.22 um) <1/ml, microorganism <1 cfu/ml			UP water: resistivity 18.25MΩ.cm@25°C, TOC: <3 ppb, particles (>0.22 um) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases≤0.01ng/ml, DNases≤3Pg/ul		
Application	Various physical and chemical tests, biochemical analysis, blood tests, micro-analysis, washing, HPLC, IC, GC, analytical experiments.						Various physical and chemical tests, biochemical analysis, blood tests, micro-analysis, washing, HPLC, IC, GC, analytical experiments.					
Power supply	220V/50Hz; 30-40W						220V/50Hz; 30-40W					
Dimensions(L×W×H)	41 x 27 x 50cm						41 x 27 x 50cm					
Standard configuration	Main unit (including 1 set of filters) +External 12L pressure tank + end point filter + accessory package						Main unit (including 1 set of filters) +External 12L pressure tank + end point filter + accessory package					
Carton size(L×W×H)	51*60*64						51*60*64					
Gross weight(kg)	45kg	46kg	47kg	46kg	47kg	48kg	46kg	47kg	48kg	47kg	48kg	48kg

Ultra-pure Water Purifier

LWP-S3-10VF



Features

Operation

Menu-type operation, parameters can be set and modified, operating status display and indication light indicate to promptly reflect machine operating status such as high-pressure shutdown, low-pressure alarm, water full shutdown, etc.

Portable test pen

Equipped with a portable test pen, which can test TDS content, conductance and water temperature anytime, anywhere.

Alarming system

Alarming for water quality exceeding, automatic filters replacement reminding, water intake time can be set. Take water by touched key, Automatic indication light indicate RO and UP water intake.



Description

Molecular biology, life sciences, genetic research, cell culture, amino acid analysis, protein purification, toxicology research, drug development, medical testing.



Built-in 8L pressure barrel

Built-in pressure tank which has inner pouch whose material is anti-bacteria and it is transparent, the inner pouch can be changed anytime.



Display

Backlight LCD display, dual waterway online monitoring, which can simultaneously display RO conductivity value, UP resistance value and equipment operating status indication.

Specifications

Model	LWP-S3-10VF
Inlet water source	Urban tap water, water pressure: 0.15-0.4MPa, water temperature 5-40 degrees C
Water making speed	10L/H
Water flow speed	1.5-2L/min (with pressure barrel)
2 water outlets	DI pure water and Ultra pure water
RO pure water quality	Desalination rate as high as 95-99% , Conductivity $\leq 0.1\mu\text{S}/\text{cm}$ (TYPE 2)
Ultra pure water quality	Resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <3 ppb, particles ($>0.22\mu\text{m}$) $<1/\text{ml}$, microorganism <1 cfu/ml, pyrogen $<0.001\text{EU}/\text{ml}$, RNases $\leq 0.01\text{ng}/\text{ml}$, DNases $\leq 3\text{Pg}/\mu\text{l}$ (TYPE 1)
Electricity	220V/50Hz; 50-60W
Dimensions(L * W * H)	47*45*55cm
Standard configuration	Machine+Built-in 8L pressure tank+terminal filter+accessories package



Technology advantage

ABS engineering plastic case, powder coating technology, with water quality and quantity upgrading function, door is open at the side.

Type U Korean quick-insert filters, used imported filtering materials.



Effectively removes pyrogen

The pipeline adopts a quick-plug interface, the pipe joint passes NSF certification, dual-wavelength UV lamps, effectively sterilizes and reduces TOC, and the original imported 5000D ultra filtration module effectively removes pyrogen.



The long-acting KDF device adopts the original imported filter material

It removes residual chlorine, heavy metals, and inhibits the growth of fungi at the front of water purification. It has a long service life, better protects the post-purification system, and extends lifetime of ultra-purification column.



Built-in filter

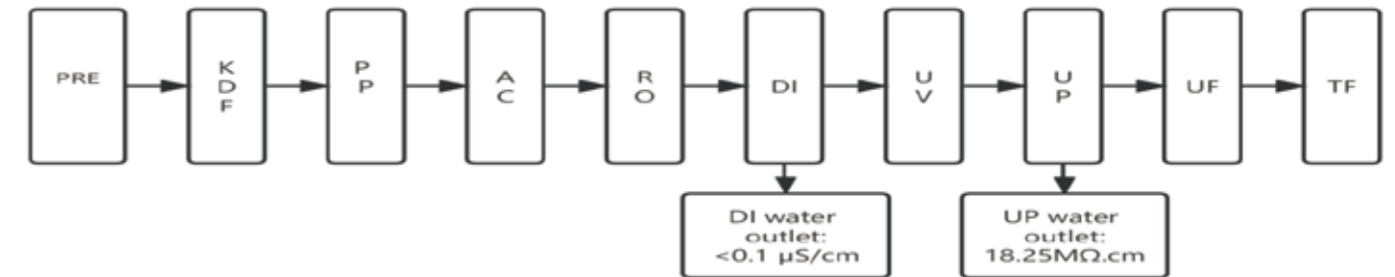
With 10 micron 316L stainless steel precision filter screen to remove fine impurities instead of PP cotton filter; manual drain valve, automatic cleaning at any time, soft scraping design for more thorough drainage, transparent shell make filtration effect visual.



Optional

- ◆ With RS-232C communication interface output, it can be connected with intelligent instruments with RS-232C interface to realize the transmission of measurement data or print records
- ◆ The original imported 3 meters telescopic water taking gun make water collection convenient.
- ◆ Can be equipped with ultra-pure water internal circulation system which keep water quality at the highest level.

Process



Filter function

Front filter: 10 micron mesh 316 stainless steel washable filter, remove minor impurities, extend PP cotton lifetime.

KDF filter: Remove residual chlorine, heavy metals, restrain fungi breed, lifetime is very long, can protect post-positive filters.

PP: PP cotton filter, remove impurities (greater than 5 micron) such as suspended solid, rust, sludge, colloid, etc.

AC: Granular activated carbon filter: remove color, odor, residual chlorine and heavy metals

RO: Reverse osmosis membrane: filter out $<1\text{nm}$ pollutants, ions, particles

UV: UV germicidal lamp: sterilization device, decomposition and photo oxidation OC, lower TOC

DI: deionized purification column: ion exchange resin bed, H^+ and OH^- ion removal

UP: Ultra-purification column: ion exchange resin bed, H^+ and OH^- ion removal

UF: Ultra filtration membrane: remove pyrogen, RNase, DNase

TF: $0.2\mu\text{m}$ terminal filter, final removal for $<0.2\mu\text{m}$ bacteria

Touch Color Screen Ultra-pure Water Purifier

- LWP-F3-10 LWP-F3-20 LWP-F3-30
- LWP-F3-F10 LWP-F3-F20 LWP-F3-F30
- LWP-F3-V10 LWP-F3-V20 LWP-F3-V30
- LWP-F3-VF10 LWP-F3-VF20 LWP-F3-VF30



Filter function

- ◆ Front filter: 10 micron mesh 316 stainless steel washable filter, remove minor impurities, extend PP cotton lifetime.
- ◆ KDF filter: Remove residual chlorine, heavy metals, retrain fungi breed, lifetime is very long, can protect post-positive filters.
- ◆ PP: PP cotton filter, remove impurities (greater than 5 micron) such as suspended solid, rust, sludge, colloid, etc.
- ◆ AC: Granular activated carbon filter: remove color, odor, residual chlorine and heavy metals
- ◆ RO: Reverse osmosis membrane: filter out <1nm pollutants, ions, particles
- ◆ UP: Ultra-purification column: ion exchange resin bed, H+ and OH-ion removal
- ◆ TF: 0.2µm terminal filter, final removal for < 0.2µm bacteria



Built-in 8L pressure barrel



Product Features

Colored touched screen, humanized operation interface make users completely monitor controller's working status and real-time data.

ABS engineering plastic case, powder coating technology, with water quality and quantity upgrading function, self-priming door.

Type U Korean quick-insert filters, used imported filtering materials.

Upgraded self-cleaning filter which with design of built-in 10" 10µm stainless steel filter mesh and silicone soft scraping, it can clean anytime, perfectly replace PP cotton filter, no need exchange.

Long-acting KDF filter whose adsorption efficiency and lifetime are more than 10times as equal quantity activated carbon filter's, this avoid frequent filter replacement.

Imported UF ultra filtration column ensure meet request for removing pyrogen and RNA.

Built-in pressure tank which has inner pouch whose material is anti-bacteria and it is transparent, the inner pouch can be changed anytime.

Inbuilt feed water pressure test gauge to real time monitor tap water pressure and filters blocking.

Lifetime of PP cotton, activated carbon filter, RO membrane and ultra purification columns can be set to display the elapsed&rest time of consumables. Automatic reminder for filter replacement to avoid water quality decreasing.

Feed water, RO and UP water three ways water quality sensor and five ways switches signal are accessed integrated, with functions of timing quantitative water taking.

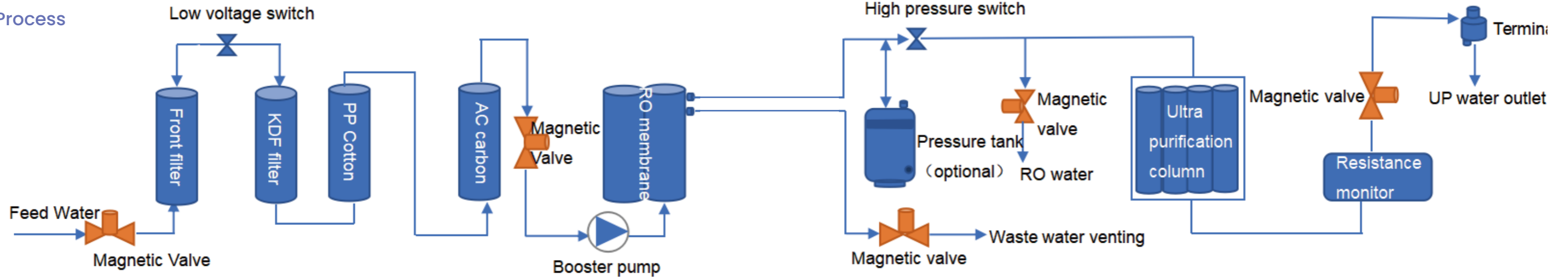
Equipped with USB Host interface, it supports data export function of historical alarm record and historical water intake record.

Low-voltage 24VDC is used as the main power supply, which meets the safety regulations and meets the requirements of humid environment, and will not cause personal injury.

Can be with inner circulation system to ensure water quality keep at the highest level. (optional)



Process



Specifications

Model	LWP-F3-10	LWP-F3-20	LWP-F3-30	LWP-F3-F10	LWP-F3-F20	LWP-F2-F30	LWP-F3-V10	LWP-F3-V20	LWP-F3-V30	LWP-F3-VF10	LWP-F3-VF20	LWP-F3-VF30
Inlet water source	Urban tap water TDS<200ppm, inlet water pressure: 0.1-0.4MPa, water temperature 5-45°C											
Water making speed	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H	10L/H	20L/H	30L/H
Water flow speed	1.5-2L/min (requires pressure bucket)											
2 water outlets	RO pure water and Ultra pure water											
Power	220V/50Hz; 120W											
Dimensions(L×W×H)	47*45*55cm											
Standard configuration	Main unit (including 1 set of filters) +Built-in 8L pressure tank+end point filter+accessory package											

Model	LWP-F3-10	LWP-F3-20	LWP-F3-30
Output Water quality	RO pure water: desalination rate as high as 95-99% , Conductivity $\leq 10\mu\text{S}/\text{cm}$ Ultra pure water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <10 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m		
Scope of application	Various physical and chemical tests, biochemical analysis, blood tests, micro-analysis, washing, HPLC, IC, GC, analytical experiments.		

Model	LWP-F3-V10	LWP-F3-V20	LWP-F3-V30
Output Water quality	RO pure water: desalination rate as high as 95-99% , Conductivity $\leq 10\mu\text{S}/\text{cm}$ Ultrapure water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <3 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m		
Scope of application	Atomic absorption/emission spectroscopy, mass spectrum, TOC detection, environmental monitoring, biochip development, trace organic matter analysis		

Model	LWP-F3-F10	LWP-F3-F20	LWP-F2-F30
Output Water quality	RO water: desalination rate as high as 95-99% (when using new RO membrane) UP water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <10 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<0.01ng/ml, DNases<3Pg/ul		
Scope of application	High-sensitivity ICP/MS, PCR, ppt-level analysis, isotope analysis, molecular biology, life sciences, disease control centers, drug testing institutes, quality inspection institutes, university research and other standard laboratories and various high-end precision instruments.		

Model	LWP-F3-VF10	LWP-F3-VF20	LWP-F3-VF30
Output Water quality	RO pure water: desalination rate as high as 95-99% , Conductivity $\leq 10\mu\text{S}/\text{cm}$ Ultrapure water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <3 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<0.01ng/ml, DNases<3Pg/ml/ul		
Scope of application	Ultrapure water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <3 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<0.01ng/ml, DNases<3Pg/ml/ul	Ultrapure water: resistivity $18.25\text{M}\Omega\cdot\text{cm}@25^\circ\text{C}$, TOC: <3 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<0.01ng/ml, DNases<3Pg/ul	

Small Screen Ultra-pure Water Purifier

LWP-F4-45 LWP-F4-60 LWP-F4-120
 LWP-F4-F45 LWP-F4-F60 LWP-F4-F120
 LWP-F4-V45 LWP-F4-V60 LWP-F4-V120
 LWP-F4-VF45 LWP-F4-VF60 LWP-F4-VF120



Product Features

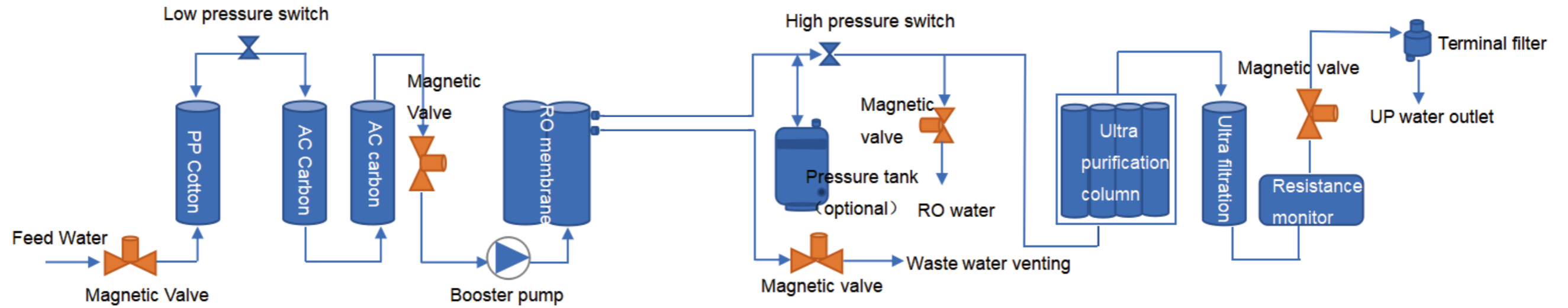
- ◆ Full-automatic microcomputer control display monitors power supply, water shortage, water production, water full, flush, and strong flush control in real time.
- ◆ Fully automatic RO membrane anti-fouling washing program and regular washing program to prolong the service life of RO membrane.
- ◆ Real-time online water flow monitoring, water pressure monitoring, water production monitoring, and water pressure monitoring.
- ◆ On-line resistivity monitoring of water quality, on-line detection of multiple working states, and real-time operation data.
- ◆ The main components are imported brands to ensure excellent water quality and a variety of different configurations to meet your experimental needs.
- ◆ Floor-standing design, with movable and fixed feet at the bottom, making installation and movement more convenient.
- ◆ The front of the machine is equipped with an independent water intake end, which is convenient and quick.
- ◆ Double electric water intake: RO water, ultra-pure water, two kinds of water outlets.
- ◆ Multiple safety protection, exquisite chassis and beautiful appearance.
- ◆ Free portable TDS water quality testing pen.
- ◆ Configure ultra-large capacity purification tank.



Application

Suitable for all kinds of physical and chemical detection, biochemical analysis, blood test, micro analysis, washing special, HPLC, IC, GC, analysis experiments.

Process



Specifications

Model	LWP-F4-45	LWP-F4-60	LWP-F4-120
	LWP-F4-F45	LWP-F4-F60	LWP-F4-F120
	LWP-F4-V45	LWP-F4-V60	LWP-F4-V120
	LWP-F4-VF45	LWP-F4-VF60	LWP-F4-VF120
Feed water request	TDS <400ppm, 5-45 °C, 1.0-3.5Kg / cm ²		
Flow rate	1.5-2 L/Min (with pressure barrel)		
Water making speed	45L/H	60L/H	120L/H
Inorganic ion rejection	>96%		
Soluble organic matter rejection	>99% (molecular weight >100)		
Particulate matter rejection rate	>99%		
Microbial retention rate	>99%		
2 water outlets	RO water and UP water		
RO water quality	TDS <10 ppm * Total salt rejection above 95%		
UP water quality			
Particulate matter (> 0.22µm)	<1/ml		
Resistivity	18.25MΩ-cm@25 °C (conductivity<0.05µs/cm)		
Heavy metalion	<0.1ppb		
Machine size (L x W x H)	50 × 52 × 108cm		
Standard configuration	Machine + External 40L pressure tank+ accessory package	Machine + External 60L pressure tank + accessory package	

Pressure Barrel



External 40L pressure barrel



External 60L pressure barrel

UP water quality







Model	LWP-F4-45	LWP-F4-F45	LWP-F4-V45	LWP-F4-VF45
	LWP-F4-60	LWP-F4-F60	LWP-F4-V60	LWP-F4-VF60
	LWP-F4-120	LWP-F4-F120	LWP-F4-V120	LWP-F4-VF120
TOC	<10ppb		<3ppb	
Pyrogen	/	<0.001EU/ml	/	<0.001EU/ml
Microbe	/	<1 CFU/ml	/	<1 CFU/ml
RNases	/	≤0.01ng/ml	/	≤0.01ng/ml
DNases	/	≤3Pg/ul	/	≤3Pg/ul

Water Purifier, Vertical type, LWP-F2 Series

LWP-F2-40 LWP-F2-60 LWP-F2-80 LWP-F2-100



Features

-  It is an integrated system which produces pure water and high-pure water using tap water;
-  Online monitoring of quality and temperature of pure water and high-pure water;
-  Protection from misoperation such as cleaning and circulation;
-  Early warning and protection from leakage and low pressure;
-  American DOW RO film imported with original packaging ensures long life of RO film and high water quality;
-  1 set of integrated 10L purified module and 1 set of 10L UP module. The system is internally installed with 10L+10L American Dow purified precise resin and nuclear grade resin imported with original packaging. The effluent quality reaches up to 16-18.2MΩ.cm.

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

PF: Pretreatment PP: Integrated PP cotton UDF: Integrated activated carbon RO: Reverse osmosis DI: Ion exchange UV: UV lamp sterilizer

Influent TDS=200ppm, 25°C, measured at 50psi and when the recovery ratio is 15%



External 42L pressure barrel

Description



Two lines of LCD display, three touch keys and one-key operation;



Resistance constant of conductivity meter: 0.01cm⁻¹, temperature sensitivity: ±0.1°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 produce ultralowradiation. The system adopts advanced EMC design and features strong interference immunity and low noise.

Specifications






Model	LWP-F2-40	LWP-F2-60	LWP-F2-80	LWP-F2-100
Influent Requirement	Urban tap water: TDS<200ppm, 5-45°C, 1.0-4.0Kg/cm ² (if influent TDS>200ppm, external softener is recommended)			
System Process	PF+PP+RO+DI+UV			
Indexes of DI Water				
Resistivity	16-18.2MΩ.cm@25°C			
Heavy Metal Ion	<0.1ppb			
PM (>0.2um)	<1/ml			
RO Indexes				
Ion Rejection Rate	96%-99% (when new RO film is used)			
Organic Rejection Rate	>99% (when MV>200 Dalton)			
PM and Bacteria Rejection Rate	>99%			
Water Yield (25°C)	40/60/80/100L/H			
Instantaneous Water Yield	1.5-2.0L/min (pressure barrel is needed)			
Water Outlet	2PCS.: RO water, DI water			
Size/Weight	(W*D*H)560×500×1060mm/ about 85Kg			
Power Supply/Power/Noise	220V50HZ/120W/<50db			
Standard Configuration	Host (including 1 set of purified column)+external 42L pressure barrel+ accessory bag			

Water purifier, LWP-G2 Series

LWP-G2-5 LWP-G2-10



Features

-  Protection from misoperation such as cleaning and circulation; Early warning and protection from leakage and low pressure;
-  160*80*390mm integrated two-column purified module. The whole column is made of edible PP. Hot melt machine enables once forming and no adhesives and impurities will be separated out.
-  Resistance constant of conductivity meter.0.01 cm-1, temperature Sensitivity: ±0.1℃ automatic temperature compensation;
-  The system is integrally installed with 3L American Dow purified precise resin imported with original packaging. The effluent quality reaches up to 13-17. 5MΩ .cm.
-  It is an integrated system which produces pure water and high-pure water using tap water.



American DOW RO film imported with original packaging ensures long life of RO film and high water quality;

Online monitoring of quality and temperature of pure water and high-pure water,



External 12L pressure barrel

Description



Two lines of LCD display, three touch keys and one key operation;



Water tank interface
Waste water outlet
Water inlet



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 produce Ultra low radiation. The system adopts advanced EMC design and features strong interference immunity and low noise.

Specifications





Model	LWP-G2-5	LWP-G2-10
Influent Requirement	Urban tap water: TDS<200ppm, 5-45°C, 1.0-4.0Kg/cm ³ (if influent TDS>200ppm, external softener is recommended)	
System Process	PP+UDF+UDF+PP+RO+DI	
Indexes of DI Water		
Resistivity	13-17.5MΩ .cm@25 °C	
Heavy Metal Ion	<0.1ppb	
PM (>0.2um)	<1/ml	
RO Indexes		
Ion Rejection Rate	96%-99%(when new RO film is used)	
Organic Rejection Rate	>99% (when MV>200 Dalton)	
PM and Bacteria Rejection Rate	>99%	
Water Yield (25°C)	5/10L/H	
Instantaneous Water Yield	1.5-2.0L/min (pressure barrel is needed)	
Water Outlet	2PCS.: RO water, DI water	
Size & Weight	(W*D*H) 315×440×470mm/ About 18Kg	
Package	(W*D*H)620*530*970 mm / About 39Kg	
Power Supply/Power/Noise	220V50HZ/ 50-80W/<50db	
Standard Configuration	Host (including 1 set of purified column)+external 12L pressure barrel+ accessory bag	

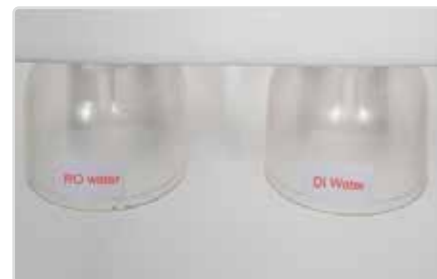
Water purifier, LWP-G3 Series

LWP-G3-10 LWP-G3-20 LWP-G3-30 LWP-G3-40



Features

-  It is an integrated system which produces pure water and high-pure water using tap water;
-  Protection from misoperation such as cleaning and circulation;
-  Early warning and protection from leakage and low pressure;
-  Resistance constant of conductivity meter: 0.01cm-1, temperature sensitivity: ±0.1°C, automatic temperature compensation;



American DOW RO film imported with original packaging ensures long life of RO film and high water quality;
Online monitoring of quality and temperature of pure water and high-pure water;



160*80*390mm integrated two-column purified module and 160*80*390mm integrated two-column UP module.
The whole column is made of edible PP. Hot melt machine enables once forming and no adhesives and impurities will be separated out. The system is internally installed with 3L American Dow purified precise resin imported with original packaging. The effluent quality reaches up to 16-18.2MΩ.cm.



Water tank interface
Waste water outlet
Water inlet



Two lines of LCD display, three touch keys and one-key operation;



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 produce ultralow radiation. The system adopts advanced EMC design and features strong interference immunity and low noise.



External 12L pressure barrel

Specifications

Model	LWP-G3-10 LWP-G3-20 LWP-G3-30 LWP-G3-40
Influent Requirement	Urban tap water:TDS<200ppm,5-45° C,1.0-4.0Kgf/cm³(if influent TDS>200ppm, external softener is recommended)
System Process*t	PF+PP+RO+DI
Indexes of DI Water	
Resistivity	16-18.2MΩ.cm@25° C
Heavy Metal Ion	<0.1ppb
PM (>0.2um)	<1/ml
RO Indexes	
Ion Rejection Rate	96%-99% (when new RO film is used)
Organic Rejection Rate	>99% (when MV>200 Dalton)
PM and Bacteria Rejection Rate	>99%
Water Yield (25°C)	10/20/30/40L/H
Instantaneous Water Yield	1.5-2.0L/min (pressure barrel is needed)
Water Outlet	2PCS.: RO water,DI water
Size/Weight	(W*D*H)410×490×510mm/ about 25Kg
Power Supply/Power/Noise	220V50HZ/50-80W/<50db
Standard Configuration	Host (including 1 set of purified column)+Built-in 12Lpressure barrel+ accessory bag

Small Screen Ultra-pure Water Purifier

LWP-F5-45 LWP-F5-60 LWP-F5-90
LWP-F5-120 LWP-F5-150



Built-in 40L pressure barrel

External 60L pressure barrel



Product Features

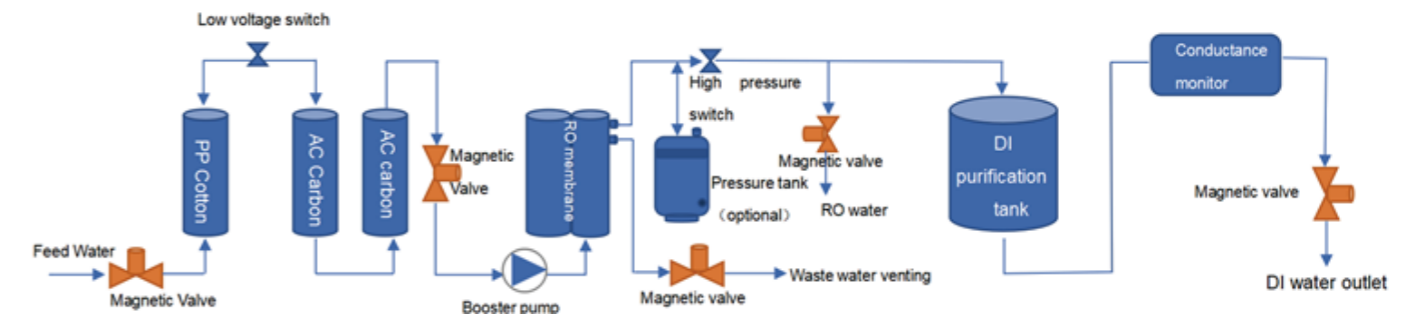
- ◆ Double LCD screens, fully automatic microcomputer control system
- ◆ Water quality online monitoring system
- ◆ Automatic RO membrane anti-scaling flushing program and timed flushing procedures to extend RO membrane lifetime.
- ◆ Real-time display working status like power, water, pump, flush, water shortage and water full to understand the machine running status
- ◆ Floor-standing design, with activated and fixed stand bar at the bottom, easy to install and move
- ◆ RO water, deionized water, two water outlets
- ◆ Present TDS test pen

Application scopes

General chemistry, biological histology, microbial analysis, sample diluent preparation, fluid preparation, water quality analysis, photographic film processing, microbe culture media, spectral meter measurement etc.

Used match with instruments such as fully automatic biochemical analyzer, immunoassay analyzer, xenon lamp UV light resistant machine, UV aging machine, constant temperature&humidity chamber, salt spray chamber, insolation aging chamber, bottle washing machine, high pressure sterilizer etc.

Process



Filter function

- ◆ First stage: PP cotton (PPF filter with a pore size of 5 microns): Preliminary filtration of raw water to remove coarser particles, colloids, suspended solids, etc. in the water.
- ◆ Second stage: Granular activated carbon: high-efficiency adsorption of odor, color, organic matter, and heavy metals in water.
- ◆ Third stage: Compressed activated carbon: further remove residual chlorine, organic compounds, color, odor, turbidity, etc.
- ◆ The fourth stage: RO reverse osmosis membrane: 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- ◆ The fifth stage: Deionization purification tank: remove most of the heavy metals and trace elements in the water, and the water quality meets the national laboratory water first-grade water standard.

Specifications

Model	LWP-F5-45	LWP-F5-60	LWP-F5-90	LWP-F5-120	LWP-F5-150
Feed water:	urban tap water: TDS<200ppm, 5-45°C, 1.0-3.5Kg/cm2				
Output water quality:	Deionized water quality completely conform to the national lab type I water standard stated by GB6682-2008				
Output:	45L/H	60L/H	90L/H	120L/H	150L/H
Inorganic ion rejection:	>96%				
Soluble organic matter rejection:	>99% (molecular weight >100)				
Particulate matter rejection rate:	>99%				
Microbial retention rate:	>99%				
Water outlet:	2 outlets: RO water and deionized water				
RO water quality:	TDS <10 ppm * Total salt rejection above 95%				
Deionized water quality:	Conductivity <0.1us/cm ,Resistivity: 10-16MΩ-cm@25°C				
Machine size:(L x W x H)	59*43*101 cm				
Power Supply:	220V, 50/60Hz, 72-240W				
Standard configuration:	Machine (with 1 set consumable filter inside) + External 11 gallon pressure tank + accessory package			Machine (with 1 set consumable filter inside) +External 60L pressure tank + accessory package	

Deionized Water Purifier

LWP-F5-M10 LWP-F5-M20 LWP-F5-M30



Application

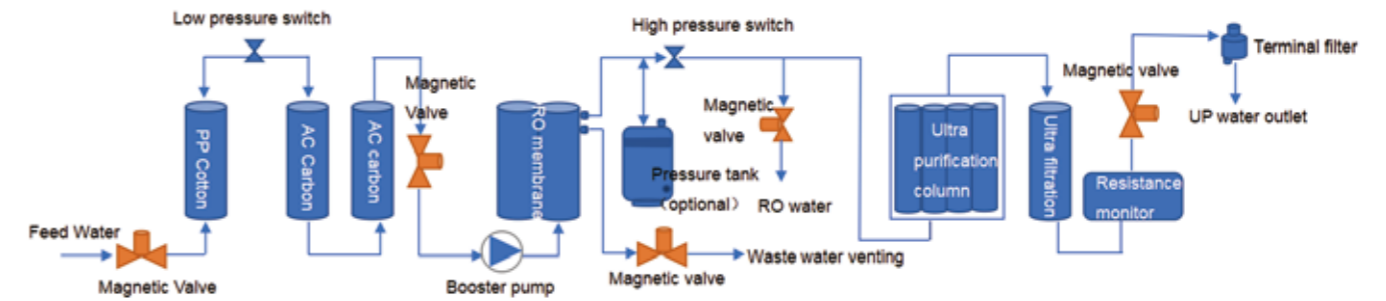
Preposition of ultra pure water system, supply water for biochemical analyzer, electroplating painting, battery charging, chips washing, microbial culture media, chemical&biochemical reagent preparation, buffer making, photographic film processing, stability test chamber, meteorological test equipment, hydrogen generator, salt spray test chamber. It can completely replace the traditional single/double/triple distilled water machine.



External 12L pressure barrel

Product Features

- ◆ Applicable to various water quality, the case is with powder coating.
- ◆ The filter element adopts open mold injection technology and inside the machine
- ◆ Korean quick-insert filter column is easy to replace and maintain.
- ◆ The electrical appliance and waterways are completely separated to avoid circuit failure caused by moisture and water leakage.
- ◆ Online water quality monitoring system, immediately measure the output water quality.
- ◆ Automatic RO membrane anti-scaling flushing program, automatic stop when tap water break, automatic water breaking when machine stop, storage tank automatically fill water, automatic stopping when water is full.
- ◆ NSF certified pipeline has function of upgrading water quality and quantity.
- ◆ Equipped with a portable TDS pen, you can test TDS content, conductance, water temperature anytime, anywhere.
- ◆ Double electric water intakes, two kinds water quality, ready to use. Pressure online monitoring.
- ◆ Open door at front and back, this make filters replacement easy&convenient, the replacement can be easily completed without using any tools. Double water intakes: pure water and deionized water



Filter Process

- ◆ First stage: PP cotton (PPF filter with a pore size of 5 microns): Preliminary filtration of raw water to remove coarser particles, colloids, suspended solids, etc. in the water.
- ◆ Second stage: Granular activated carbon: high-efficiency adsorption of odor, color, organic matter, and heavy metals in water.
- ◆ Third stage: Compressed activated carbon: further remove residual chlorine, organic compounds, color, odor, turbidity, etc.
- ◆ The fourth stage: RO reverse osmosis membrane: 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- ◆ The fifth stage: Deionization purification column: remove most of the heavy metals and trace elements in the water, and the water quality meets the national laboratory water first-grade water standard.



Specifications

Model	LWP-F5-M10	LWP-F5-M20	LWP-F5-M30
Feed water request	Tap water, inlet water pressure: 0.15-0.5MPa, water temperature 5-40°C		
Capacity	10L/H	20L/H	30L/H
Flow rate	1.5-2L/min (with pressure barrel)		
Output water quality	RO Pure water: desalination rate as high as 95-99%, TDS<10ppm		
	Deionized water: resistivity 10-16MΩ.cm@25°C, conductivity: ≦0.1 μs/cm, ammonia: 0.3μg/ml, nitrate: 0.06 μg/ml		
Power supply	220V/50Hz; 48W		
Dimension(mm)(L x W x H)	41*27*50cm		
Standard configuration	Machine (including 1 set of consumable filters) +External 12L pressure tank + accessory package		

Deionized Water Purifier

LWP-F5-S10 LWP-F5-S20 LWP-F5-S30



External 12L pressure barrel

Filter Process

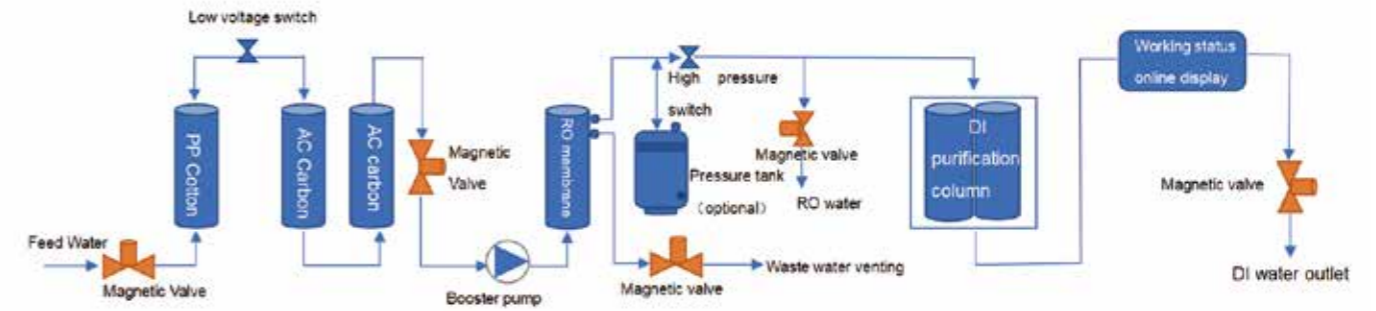


Pipes connectors

- ◆ First stage: PP cotton (PPF filter with a pore size of 5 microns), Preliminary filtration of raw water to remove coarser particles, colloids, suspended solids, etc. in the water.
- ◆ Second stage: Granular activated carbon, high-efficiency adsorption of odor, color, organic matter, and heavy metals in water.
- ◆ Third stage: Compressed activated carbon, further remove residual chlorine, organic compounds, color, odor, turbidity, etc.
- ◆ The fourth stage: RO reverse osmosis membrane, 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- ◆ The fifth stage: Deionization purification column × 2, remove most of the heavy metals and trace elements in the water, and the water quality meets the national laboratory water first-grade water standard.

Application

Preposition unit of ultra pure water system, supply water for biochemical analyzer, electroplating painting, battery charging, chips washing, microbial culture media, chemical&biochemical reagent preparation, buffer making, photographic film processing, stability test chamber, meteorological test equipment, hydrogen generator, battery adding liquid and other instruments water supply. It can completely replace the traditional single-steam, double-steam and triple-distilled water machines.



Product Features

- ◆ Korean appearance, exquisite and slim, small size, can be inside lab cabinet.
- ◆ Quick-insert filters make replacement easy and convenient.
- ◆ Design of exposed filter cartridges make consumables replaced easily.
- ◆ Microcomputer automatically control, backlight LED large LCD screen.
- ◆ Visualized operating status, real-time display flushing, water making, water full&lack and maintenance status, with sound and light alarm function
- ◆ Transparent window, simple&graceful, detachable panel, convenient maintenance.
- ◆ Newest environmentally friendly materials, with a portable test pen.

Specifications

Model	LWP-F5-S10	LWP-F5-S20	LWP-F5-S30
Deionized water quality	resistivity 10-16MΩ-cm@25℃		
Power supply	220V 50/60Hz	220V, 50/60Hz	220V, 50/60Hz
Working pressure	0.1-0.5Mpa		
Rated power	48W		
Water production	10L/H (25℃)	20L/H (25℃)	30L/H (25℃)
Rated daily water	100 L/day	/	/
Conductivity	≦ 0.1μs/cm		
Ammonia	≦ 0.3ug/ml		
Nitrate	≦ 0.06ug/ml		
TDS (RO Water)	<10ppm		
Outlet 2	RO water, deionized water		
Size(L*W*H)	40*20*36cm		
Standard configuration	Main machine (with 1 set of consumable filters) +Accessory Package		