

Infitek

WATER PURIFIER



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VERSION.26

Ultrapure Water Purifier, LWP-S3-2 series

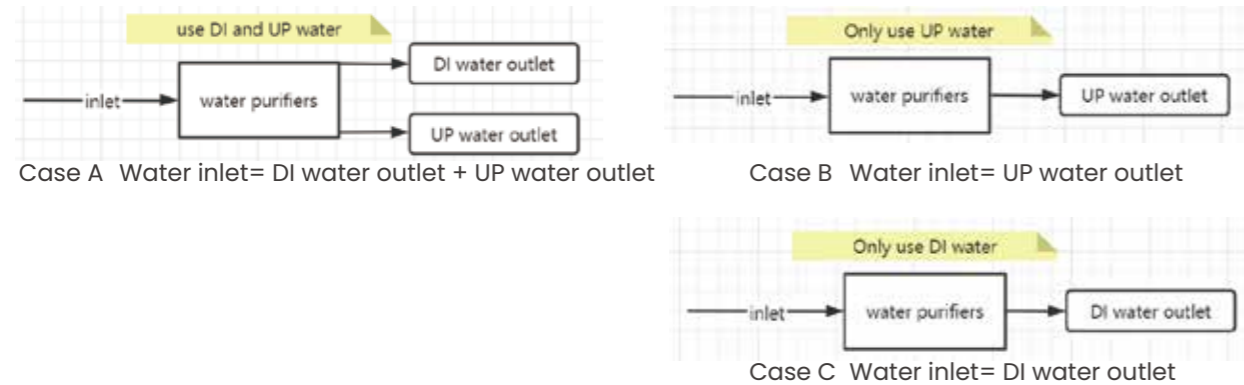
LWP-S3-2E LWP-S3-2F LWP-S3-2V LWP-S3-2VF



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 (display shows 18.25)
- 03 High-quality accessories**
Includes a test pen and filter cartridges.

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



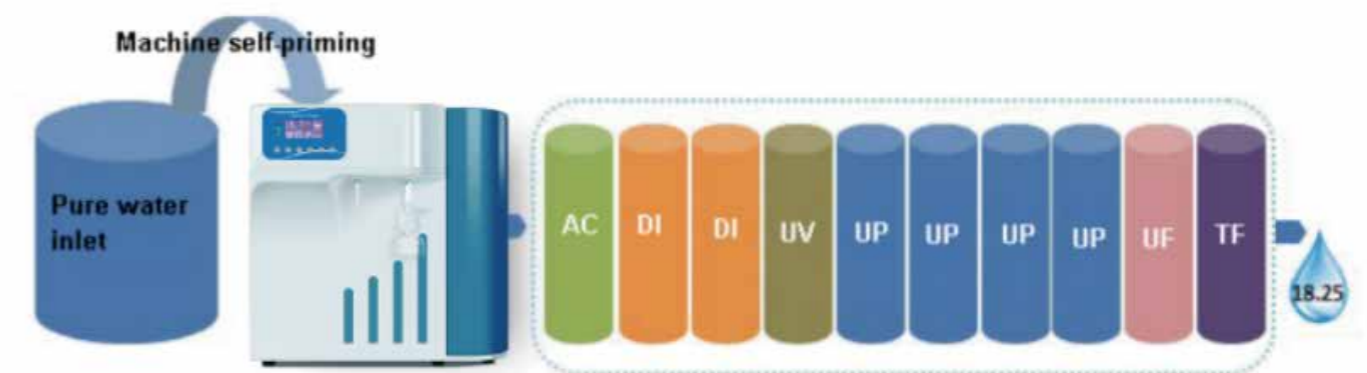
Specifications

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 (W×D×H)	450*470*550 mm			
Package Dimension (W×D×H)(mm)	630*550*660mm			
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 is equipped with ultra-pure water internal circulation system, water quality can be stable at the highest value at any time.

Product system filtration steps



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 $<1\text{pg}/\text{ml}$, DNases $<5\text{pg}/\text{ml}$ (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

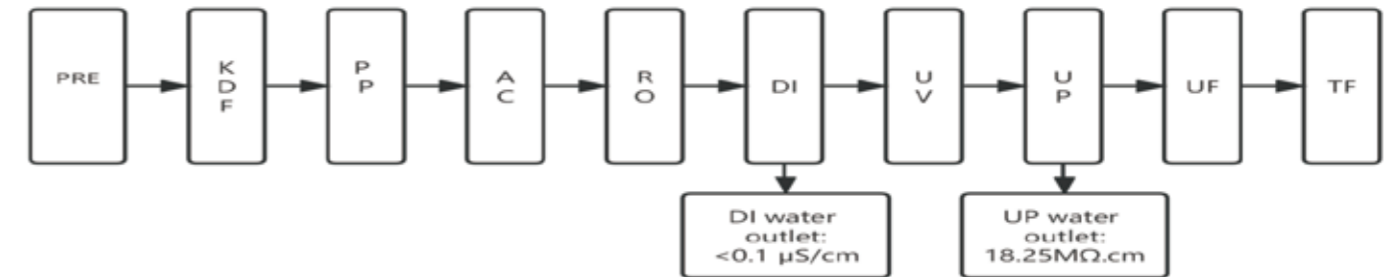
With 10 micron 316L stainless steel precision filter screen to remove fine impurities instead of PP cotton filter; manual drain valve, automatic cleaning at any time, soft scraping design for more thorough drainage, transparent shell make filtration effect visual.



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

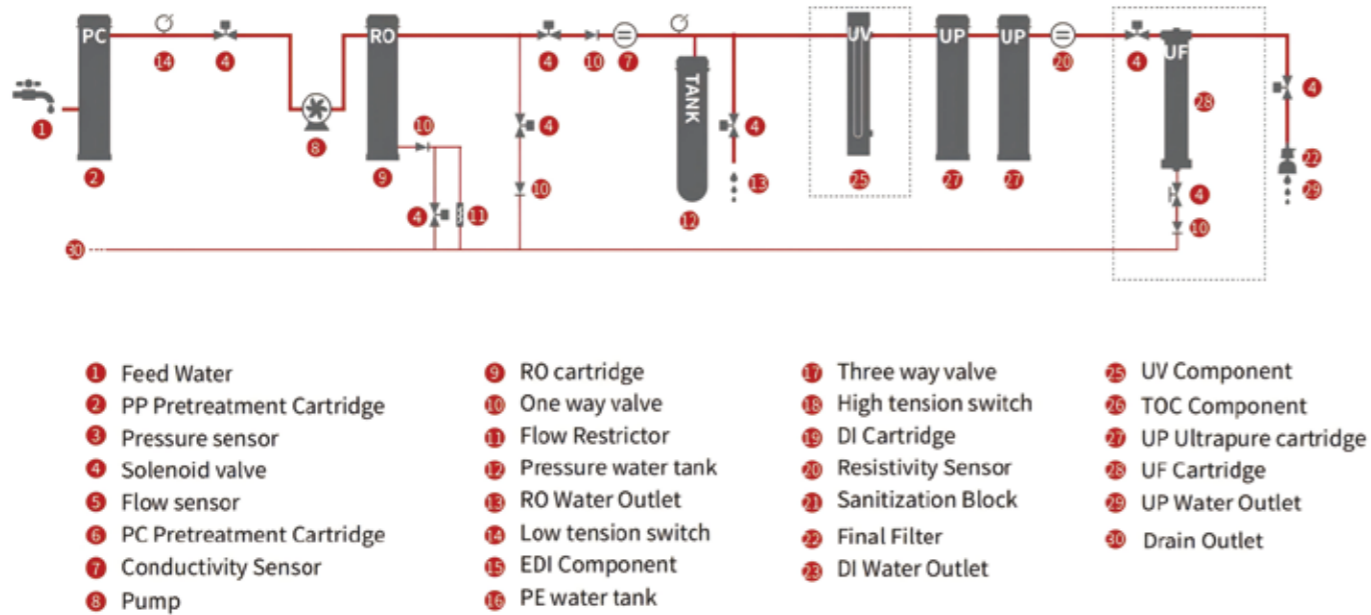
UP: Ultra-purification column: ion exchange resin bed, H^+ and OH^- ion removal

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

Ultra-pure Water Purifier

- LWP-S2-20 LWP-S2-40 LWP-S2-60
- LWP-S2-20V LWP-S2-40V LWP-S2-60V
- LWP-S2-20F LWP-S2-40F LWP-S2-60F
- LWP-S2-20VF LWP-S2-40VF LWP-S2-60VF



Features

- Adopts automatic control system and LCD display;
- Embedded with purification column, stable and reliable single RO1st system with higher ion rejection rate, and DI ion-exchange purification unit with larger capacity;
- Equipped with built-in 1.8L pressure water tank;
- System water output: 20, 40, 60 L/h.;
- It can simultaneously produce ultra-pure water (18.2MΩ.cm) and primary RO water;



Standard



Optional



Pre-boost device



Liquid level pure water tank

Specification

Model	LWP-S2-20	LWP-S2-20V	LWP-S2-20F	LWP-S2-20VF
	LWP-S2-40	LWP-S2-40V	LWP-S2-40F	LWP-S2-40VF
	LWP-S2-60	LWP-S2-60V	LWP-S2-60F	LWP-S2-60VF
Type	Standard	Low TOC	Eliminating endotoxin	Synthesizing
Production Rate ^[1]	20 series: 20 L/hour, 40 series: 40 L/hour, 60 series: 60 L/hour		20 series: 20 L/hour, 40 series: 40 L/hour, 60 series: 60 L/hour	
Dispensing Rate ^[2]	Up to 2L/min	Up to 2L/min	Up to 2L/min	Up to 2L/min
Ultra-pure Water Quality ^[3]				
Resistivity (25 °C) ^[4]	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm
Conductivity (25 °C)	0.055μs/cm	0.055μs/cm	0.055μs/cm	0.055μs/cm
TOC ^[5]	5ppb ^[6]	2ppb ^[7]	5ppb ^[6]	2ppb ^[7]
Particles ^[6]	<1/ml (>0.2μm)	<1/ml (>0.2μm)	<1/ml (>0.2μm)	<1/ml (>0.2μm)
Bacteria ^[6]	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml	<0.01 CFU/ml
Endotoxin ^[8]	N/A	N/A	<0.001 EU/ml	<0.001 EU/ml
RNases ^[8]	N/A	N/A	1 pg/ml	1 pg/ml
DNases ^[8]	N/A	N/A	5 pg/ml	5 pg/ml
Protease ^[8]	N/A	N/A	0.15μg/ml	0.15μg/ml
RO^{1st} Water Quality ^[3]				
Ion Rejection Rate	98%-99% (with new RO module)	98%-99% (with new RO module)	98%-99% (with new RO module)	98%-99% (with new RO module)
Organic Rejection Rate	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)	>99% (MW>300 Dalton)
Particles and Bacteria Rejection Rate	>99%	>99%	>99%	>99%
Feed Water Requirements				
Water Source Type	Tap water	Tap water	Tap water	Tap water
Pressure	1-6 bar	1-6 bar	1-6 bar	1-6 bar
Temperature	5-40 °C	5-40 °C	5-40 °C	5-40 °C
Conductivity	<2000μs/cm	<2000μs/cm	<2000μs/cm	<2000μs/cm
Total Hardness (In CaCO ₃)	<300ppm	<300ppm	<300ppm	<300ppm
TOC	<2000ppb	<2000ppb	<2000ppb	<2000ppb
Free Chlorine	<3 ppm	<3 ppm	<3 ppm	<3 ppm
pH	4-10	4-10	4-10	4-10
Dissolved CO ₂	<30 ppm	<30 ppm	<30 ppm	<30 ppm
Electricity	100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz	100-240V, 50/60Hz
Total Power	20 series: 48W, 40 series: 72W, 60 series: 120W		20 series: 48W, 40 series: 72W, 60 series: 120W	
Dimension of Main Host (L*W*H)	273*555*568mm	273*555*568mm	273*555*568mm	273*555*568mm
Weight	About 21kg	About 21kg	About 21kg	About 21kg
Scope of application	Various physical and chemical tests, biochemical analysis, blood tests, micro-analysis, washing, HPLC, IC, GC, analytical experiments.	Atomic absorption/emission spectroscopy, mass spectrum, TOC detection, environmental monitoring, biochip development, trace organic matter analysis	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.	Molecular biology, life sciences, genetic research, cell culture, amino acid analysis, protein purification, toxicology research, drug development, medical testing

[1] Affected by inlet water quality, pressure, temperature and status of RO membrane;

[2] Affected by the tank status and terminal filter;

[3] The following values are typical and may vary depending on the nature and concentration of feed water contaminants;

[4] According to USP requirements, the resistivity can be displayed as a non-temperature-compensated value;

[5] Affected by the type of organics;

[6] Inlet TOC<1000ppb, follow professional operating procedures and correct sampling conditions;

[7] Inlet TOC<50ppb, follow professional operating procedures and correct sampling conditions;

[8] Equipped with terminal micro-filter and follow professional operating procedures and correct sampling conditions;

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, 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 <1nm pollutants, ions, particles
- ◆ UV: UV germicidal lamp: sterilization device, decomposition and photo oxidation OC, lower TOC
- ◆ UP: Ultra-purification column: ion exchange resin bed, H+ and OH- ion removal
- ◆ UF: Ultra filtration membrane: remove pyrogen, RNase, DNase
- ◆ 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.

Perfect managing functions of RO&UP water making, circulation system and (UV) sterilization.

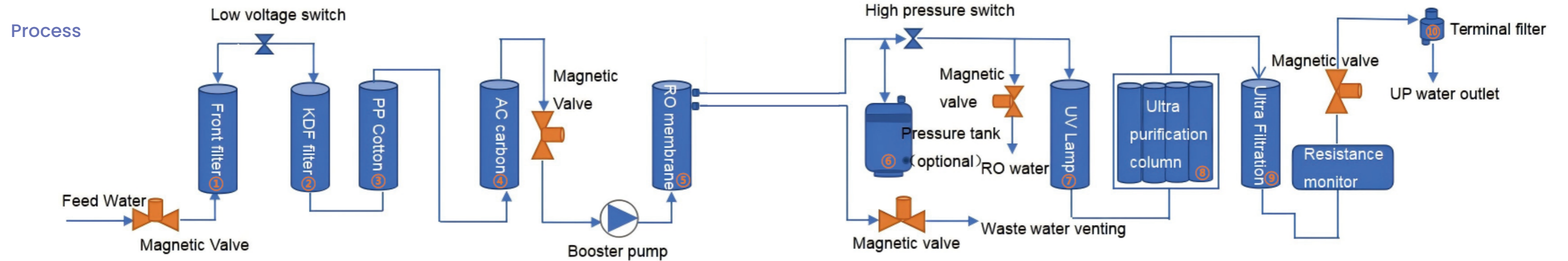
Feed water, RO and UP water three ways water quality sensor and five ways switches signal are accessed integrated, with functions of timing quantitative water taking.

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)





Specifications

Model	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
Inlet water source	Urban tap water TDS<200ppm, inlet water pressure: 0.1-0.4MPa, water temperature 5-45°C						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)						1.5-2L/min (requires pressure bucket)					
2 water outlets	RO pure water and Ultra pure water						RO pure water and Ultra pure water					
Output water quality	RO pure water: desalination rate as high as 95-99% , Conductivity ≤10μS/cm. Ultrapure water: resistivity 18.25MΩ.cm@25°C, TOC: <10 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<1pg/ml, DNases<5pg/ml						RO pure water: desalination rate as high as 95-99% , Conductivity ≤10μS/cm. Ultrapure water: resistivity 18.25MΩ.cm@25°C, TOC: <3 ppb, particles (>0.22 μm) <1/ml, microorganism <1 cfu/m, pyrogen<0.001EU/ml, RNases<1pg/ml, DNases<5pg/ml					
Scope of application	Various physical and chemical tests, biochemical analysis, blood tests, micro-analysis, washing, HPLC, IC, GC, analytical experiments.						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.					
Standard configuration	①②③④⑤⑥⑧⑩			①②③④⑤⑥⑧⑨⑩			①②③④⑤⑥⑦⑧⑩			①②③④⑤⑥⑦⑧⑨⑩		
Power	220V/50Hz; 120W						220V/50Hz; 120W					
Dimensions	L x W x H: 470 x 450 x 550mm						L x W x H: 470 x 450 x 550mm					
Standard configuration	Main unit (including 1 set of filters) +Built-in 8L pressure tank+end point filter+accessory package						Main unit (including 1 set of filters) +Built-in 8L pressure tank+end point filter+accessory package					
Package Dimension(mm)	W*D*H: 640*550*700mm						W*D*H: 640*550*700mm					
G.W.(kg)	37kg						37kg					

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

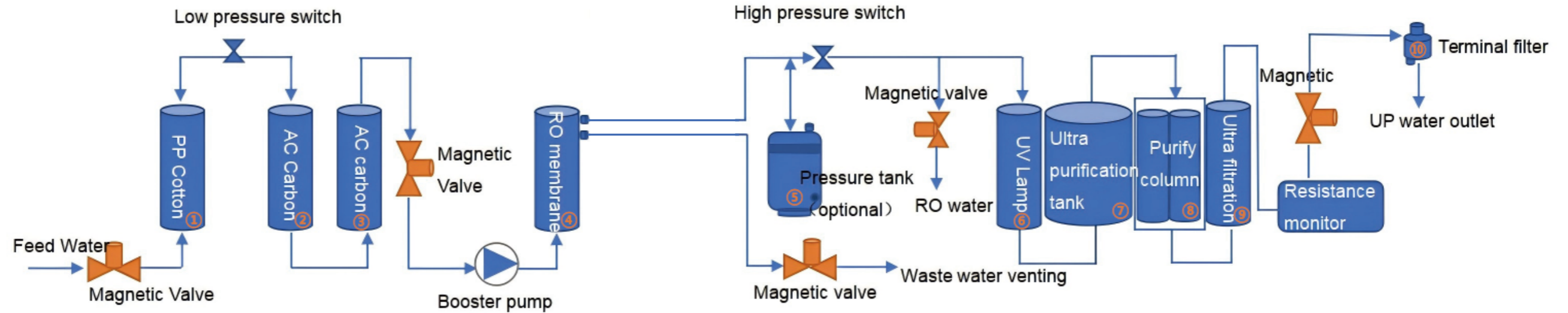
- ◆ Full-automatic microcomputer control display monitors power supply, water shortage, water production, water full, flush, and strong flush control in real time.
- ◆ Fully automatic RO membrane anti-fouling washing program and regular washing program to prolong the service life of RO membrane.
- ◆ 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.
- ◆ Perfect managing functions of RO&UP water making, circulation system and (UV) sterilization.



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	/	<1pg/ml	/	<1pg/ml
DNases	/	<5pg/ml	/	<5pg/ml

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 / cm2						TDS <400ppm, 5-45 °C, 1.0-3.5Kg / cm2					
Flow rate	1.5-2 L/Min (with pressure barrel)						1.5-2 L/Min (with pressure barrel)					
Water making speed	45L/H	60L/H	120L/H	45L/H	60L/H	120L/H	45L/H	60L/H	120L/H	45L/H	60L/H	120L/H
Inorganic ion rejection	>96%						>96%					
Soluble organic matter rejection	>99% (molecular weight >100)						>99% (molecular weight >100)					
Particulate matter rejection rate	>99%						>99%					
Microbial retention rate	>99%						>99%					
2 water outlets	RO water and UP water						RO water and UP water					
RO water quality	TDS <10 ppm * Total salt rejection above 95%						TDS <10 ppm * Total salt rejection above 95%					
UP water quality												
Particulate matter (> 0.22µm)	<1/ml			<1/ml			<1/ml			<1/ml		
Resistivity	18.25MΩ-cm@25 °C (conductivity<0.05µs/cm)			18.25MΩ-cm@25 °C (conductivity<0.05µs/cm)			18.25MΩ-cm@25 °C (conductivity<0.05µs/cm)			18.25MΩ-cm@25 °C (conductivity<0.05µs/cm)		
Heavy metal ion	<0.1ppb			<0.1ppb			<0.1ppb			<0.1ppb		
TOC	<10ppb			<10ppb			<3ppb			<3ppb		
Pyrogen	/			<0.001EU/ml			/			<0.001EU/ml		
Microbe	/			<1 CFU/ml			/			<1 CFU/ml		
RNases	/			<1pg/ml			/			<1pg/ml		
DNases	/			<5pg/ml			/			<5pg/ml		
Application	Suitable for all kinds of physical and chemical 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.			Suitable for 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.			Atomic absorption/emission spectroscopy, mass spectrometry, TOC detection, environmental monitoring, biochip development, trace organic matter analysis			Suitable for molecular biology, life sciences, genetic research, cell culture, amino acid analysis, protein purification, toxicology research, drug development, medical testing		
Standard configuration	①②③④⑤⑦⑧⑩			①②③④⑤⑦⑧⑨⑩			①②③④⑤⑥⑦⑧⑩			①②③④⑤⑥⑦⑧⑨⑩		
Machine size (L x W x H)	500 x 520 x 1080mm			500 x 520 x 1080mm			500 x 520 x 1080mm			500 x 520 x 1080mm		
Standard configuration	Machine + External 40L pressure tank+ accessory package		Machine + External 60L pressure tank + accessory package	Machine + External 40L pressure tank+ accessory package		Machine + External 60L pressure tank + accessory package	Machine + External 40L pressure tank+ accessory package		Machine + External 60L pressure tank + accessory package	Machine + External 40L pressure tank+ accessory package		Machine + External 60L pressure tank + accessory package

Small Screen 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

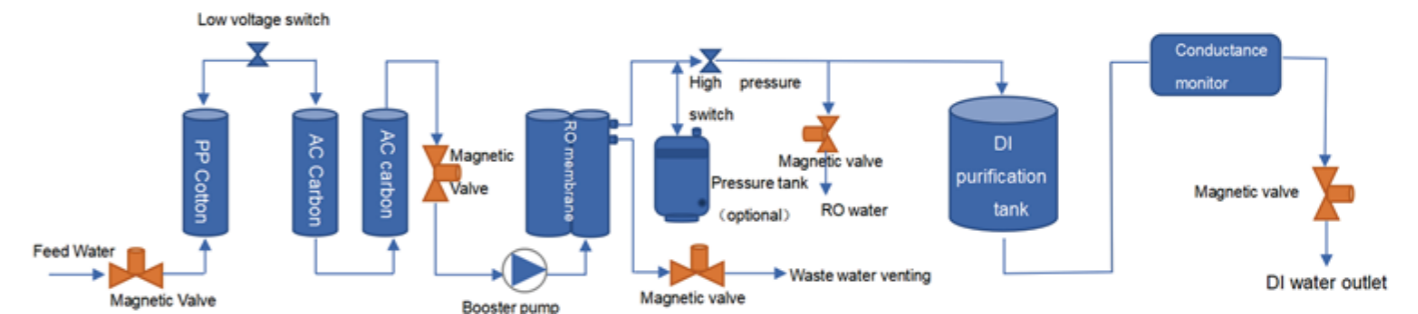
- ◆ Double LCD screens, fully automatic microcomputer control system
- ◆ Water quality online monitoring system
- ◆ Automatic RO membrane anti-scaling flushing program and timed flushing procedures to extend RO membrane lifetime.
- ◆ Real-time display working status like power, water, pump, flush, water 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/cm ²				
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

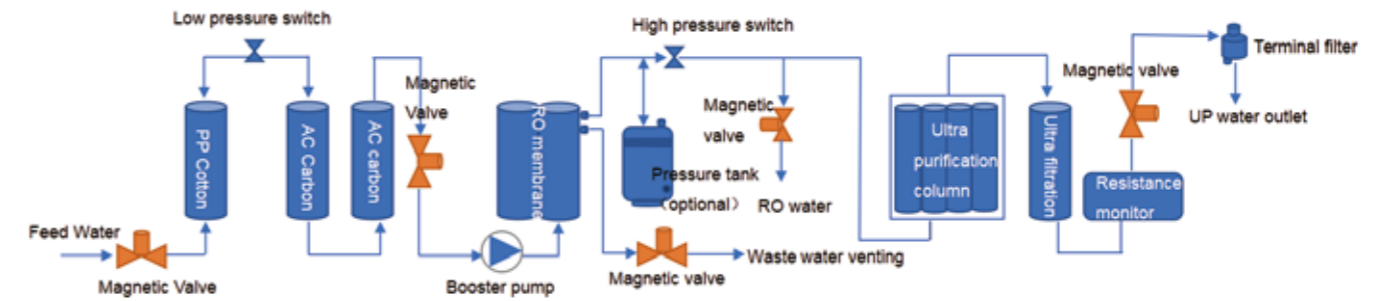
Preposition of ultra pure water system, supply water for biochemical analyzer, electroplating painting, battery charging, chips washing, microbial culture media, chemical&biochemical reagent preparation, buffer making, photographic film processing, stability test chamber, meteorological test equipment, 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: RO reverse osmosis membrane: 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- ◆ The fourth 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	W*D*H: 41*27*50cm		
Package Dimension	W*D*H: 64*56*70cm		
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



Filter Process

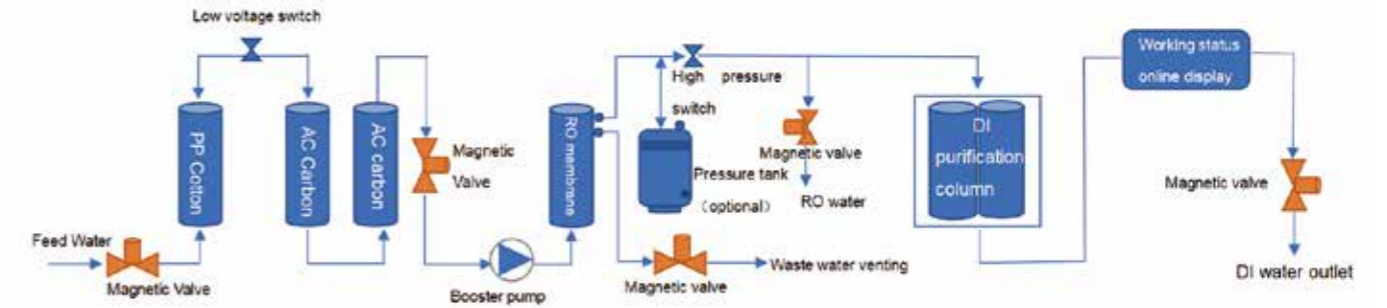


Pipes connectors

- ◆ 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: RO reverse osmosis membrane: 0.0001 micron pore size, effectively removes organic impurities such as viruses and heavy metals in water.
- ◆ The fourth 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

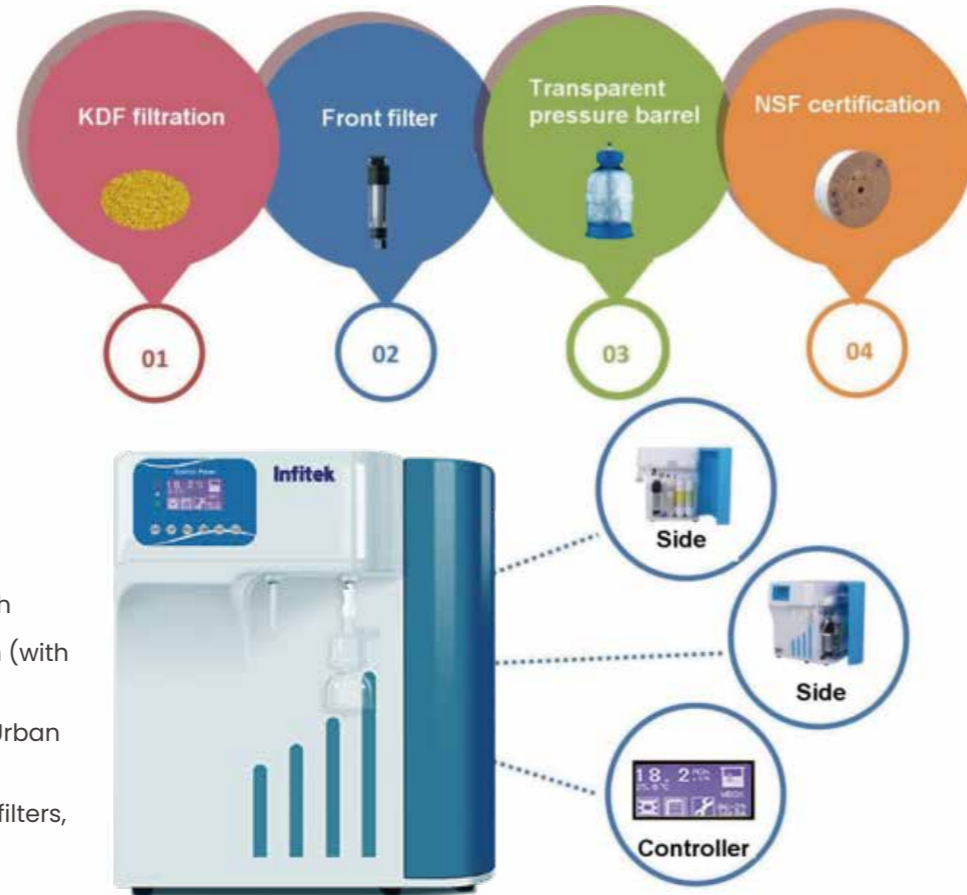
Model	LWP-F5-S10	LWP-F5-S20	LWP-F5-S30
Deionized water quality	resistivity 10-16MΩ-cm@25℃		
Power supply	220V 50/60Hz		
Working pressure	0.1-0.5Mpa		
Rated power	48W		
Water production	10L/H (25℃)	20L/H (25℃)	30L/H (25℃)
Rated daily water	100 L/day	/	/
Conductivity	≤ 0.1μs/cm		
Ammonia	≤ 0.3ug/ml		
Nitrate	≤ 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		
Package Dimension (W*D*H) (mm)	440*270*670		
G.W.(kg)	17		

Ultra-pure Water Purifier

LWP-S3-20VF LWP-S3-30VF



Machine Picture



- ◆ Production Rate: 20L/h, 30L/h
- ◆ Dispensing Rate: 1.5–2 L/min (with pressure tank)
- ◆ Feed Water Requirements: Urban tap water
- ◆ U-type Korean quick-insert filters, using imported filter media.

Optional

Featuring an RS-232C communication interface, it can be connected to intelligent instruments to transmit measurement data or print records.

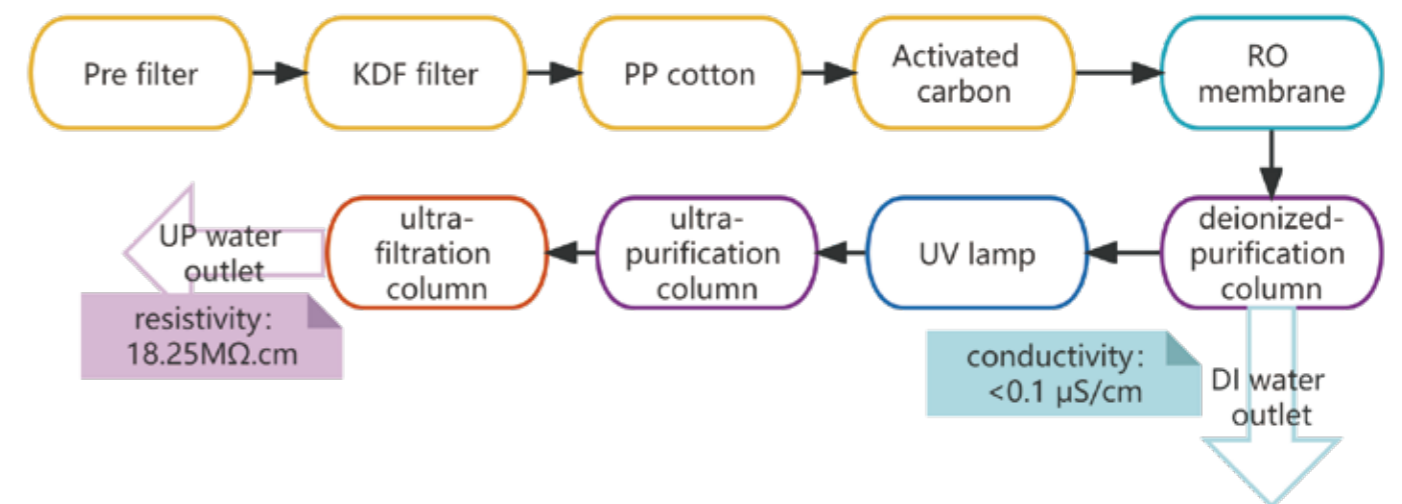
The original imported 3-meter telescopic water dispensing gun makes water collection convenient.

Can be equipped with an ultra-pure water internal circulation system which keeps the water quality at the highest level.

Features

- ◆ Built-in filter, with a 10 micron 316L stainless steel precision filter screen to remove fine impurities instead of a PP cotton filter; The manual drain valve allows for automatic cleaning at any time; The soft-scraping design ensures more thorough drainage; The transparent shell makes the filtration effect visible.
- ◆ 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 pretreatment stage of water purification. It has a long service life, better protects the downstream purification system, and extends the lifetime of the ultra-purification column.
- ◆ Built-in pressure tank with a transparent, antibacterial inner bladder that can be replaced anytime. ABS engineering plastic case, with a powder coating technology, featuring water quality and quantity upgrade functions, and a side-opening door.
- ◆ U-type Korean quick-insert filters, using imported filter media.
- ◆ Backlit LCD display, and dual-waterway online monitoring, which can simultaneously display RO conductivity, UP resistivity and equipment operation status.
- ◆ Menu-driven operation, parameters can be set and modified, with an operating status display and indicator lights to promptly reflect the machine operating status such as high-pressure shutdown, low-pressure alarm, water-full shutdown, etc.
- ◆ Water quality over-limit alarm, automatic filter replacement reminder, water intake time can be set. Water dispensing via touch keys; automatic indicator lights show RO and UP water intake.
- ◆ Equipped with a portable test pen, which can test TDS content, conductivity and water temperature anytime, anywhere.
- ◆ The pipeline features a quick-connect interface, with NSF-certified pipe joints. The dual-wavelength UV lamp effectively sterilizes and reduces TOC, and the original imported 5000D ultra-filtration module effectively removes pyrogens.

Process



Filter Function

Front filter		10-micron 316 stainless steel washable filter, removing fine impurities and extending the service life of the PP cotton filter.
KDF filter		Removes residual chlorine and heavy metals, inhibiting fungal growth; has an extended lifetime, protecting downstream filters.
Granular activated carbon filter		Removes color, odor, residual chlorine and heavy metals.
PP cotton filter		Removes impurities (greater than 5 microns) such as suspended solids, rust, sludge, colloids, etc.
Reverse osmosis membrane		Filters out <1nm pollutants, ions, particles
Deionized purification column		Ion-exchange resin bed for removal of H ⁺ and OH ⁻ ions.
Ultra-purification column		Ion-exchange resin bed for removal of H ⁺ and OH ⁻ ions.
Ultra filtration membrane		Removes pyrogens, RNase, and DNase.
Dual wavelength UV lamp		Sterilization device; performs decomposition and photo-oxidation of organic compounds to reduce TOC.
0.2µm terminal filter		Final removal for < 0.2µm bacteria



Specifications

Model	LWP-S3-20VF	LWP-S3-30VF
Production Rate	20 L/h	30 L/h
Dispensing Rate	1.5–2 L/min (with pressure tank)	
Feed Water Requirements	Urban tap water, inlet pressure: 0.15–0.5MPa, temperature: 5–40 °C	
RO Water Parameters		
Ion Rejection Rate	97%–99% (with new RO membrane)	
Organic Matter Rejection Rate	>99% (when MW > 200 Dalton)	
Particle and Bacterial Rejection	>99%	
Application	Glassware cleaning	
DI Water Parameters (ASTM Type II Grade Water)		
Resistivity (25 °C)	10–16MΩ·cm @ 25 °C	
Conductivity	<0.1µS/cm	
Total Organic Carbon (TOC) *	<30 ppb	
Application	Pretreatment for ultrapure water systems; feedwater for biochemical analyzers, electroplating, painting, battery charging, semiconductor rinsing, microbiological culture media preparation, chemical & biochemical reagent preparation, buffer preparation, photographic film processing, stability chambers, meteorological testing equipment, hydrogen generators, and salt spray test chambers.	
UP Water Parameters (ASTM Type I Grade Water)		
Resistivity (25 °C)	18.25MΩ·cm @ 25 °C	
Heavy Metal Ions	<0.01 ppb	
Total Organic Carbon (TOC) *	<3 ppb	
Bacteria	<1 CFU/mL (with terminal filter)	
Particulate Matter (>0.1µm)	<1/mL	
Pyrogen (Endotoxin)	<0.001 EU/mL	
Ribonucleases (RNases)	<1 pg/mL	
Deoxyribonucleases (DNases)	<5 pg/mL	
Application	Molecular biology, life sciences, gene research, cell culture, amino acid analysis, protein purification, toxicology, drug development, and medical testing.	
Electrical Requirements	100–240 V, 50/60 Hz, 48–72 W	
System Configuration	Main unit (including 1 set of purification column) + 8 L built-in pressurized water storage tank + TDS pen + accessory kit	