

Distillation & Water Purification



mrc



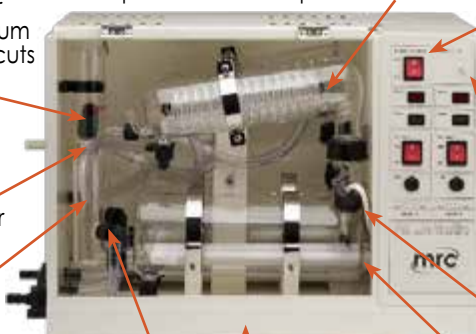
WSB/WSC/AWC-Series, Water Distillers

Visual flow control valve sets water input for maximum efficiency and cuts power if water supply fails.

Solenoid valve shuts off water supply to still if electrical power fails.

Constant level device gives efficient boiler operation and protects against overflowing.

Double coil condenser for maximum output with low temperature distillate.



Screwthread connectors for easy assembly, maintenance and leak free operation

Stove enamelled casing incorporates hinged perspex front cover for easy access.

All cabinet stills feature a 12 volt circuit board to ensure complete operator safety.

Indicator gives visual warning when reservoir is full, cutting power & water to still.

Electrical specification meets B.S. & international standards.

Pressure switch shuts off water supply and power when reservoir is full. Allows any type of reservoir to be used.



All cabinet water stills can be supplied as a complete unit mounted on MRC 25 liter reservoirs. Add prefix RS/25 to catalogue number. If required, customers can fit reservoirs to existing stills but they must be returned to our factory for fitting. Aquamatic stills can be used with any type of reservoir and do not have to be returned to our factory.

Our range of water stills is the complete answer to all water purification requirements; they are built entirely our own expert craftswomen and craftsmen from top quality materials.

Used throughout the world in commercial, research and education laboratories, highly valued for their quality manufacture, MRC stills are efficient, low maintenance and reliable in service & will continue to provide outstanding service for years. We do not build-in obsolescence, in fact any of our stills can be brought right up to date by retro-fitting the latest modifications. MRC stills meet all the current safety regulations; providing failsafe operation even without supervision.

We use high purity silica sheathed elements, although lower cost metal heaters can be specified. For the world markets, alternative voltage 110 volts heaters are available. Cabinet stills can be bench, wall mounted or freestanding using the MRC 25 liter reservoir option.

MRC Glass is not only a world leader in water stills but also manufacture, to the same exacting standards, all types of laboratory glassware including: Bespoke glassware, one-off prototypes, a wide range of jointed laboratory glassware for trade users and screw tops for glass products.

Output		4 Liter/hr	8 Liter/hr
Heaters		Metal	Metal
Wattage		1x3Kw	2x3Kw
Power		220/240V	220/240V
Fuse		13amps	2x13amps
Min. supply pressure		5psi	5psi
Dimension (mm)		H400xW590xD240	H400xW590xD240
Incl. reservoir(mm)		H940xW590xD530	H940xW590xD530
Net weight (kg)		12	20
Incl. reservoir (kg)		32	40
Output quality	pH	5.5-6.5	5.5-6.5
	Conductivity $\mu\text{s/cm}$	<2.5	<2.5
	Resistivity megohm-cm	0.4	0.4
	Temperature	<35°C	<35°C

Model	Output		Metal Heater	Cabinet Model	Flow Control Valve	Borosilicate glass	Automatic operation
	4L/hr	8L/hr					
WSB-4	✓		✓			✓	
WSC-4	✓		✓	✓	✓	✓	
WSC-8		✓	✓	✓	✓	✓	
AWC-4	✓		✓	✓	✓	✓	✓
AWC-8		✓	✓	✓	✓	✓	✓

WPL Series, Laboratory Water Purification Systems

- WPL-RO Series deionized water system (Tap water inlet)
- WPL-RO-S Series ultra pure water system (Tap water inlet)
- WPL-RO-D Series ultra pure water system (DI water inlet).



LCD display function:



DIST



DIST-g



DIST, 1.5 Liter/hour Distillator

Autoclave must adopt distilled water as operation medium.

Even Purified water has various minerals, & can produce furring scale after evaporation at high temperature, which, after a period of time, can lead to leaking of steam due to improper closure. It can also lead to the clog in the narrow pipes and pressure sensor, to the malfunction of temperature sensor and to other failures.

Once the furring scale enters hand piece and other instrument which are hollow inside or has apertures, it will clog the narrow pipes and axis, lowering the turning speed of hand piece, thus reducing its life span. Therefore, using distilled water is necessary.

Features and Advantage:

Control System	Microprocessor control
Display System	240x128 Graphical LCD display
Quality Monitor	3-way online sensor, detecting the quality of inlet, RO outlet and ultrapure water respectively
Visual and Audio Alarm	Multiple alarm—including inlet water over standard, no water, full water, outlet water over standard, Consumable' life-span ends, malfunction auto-detect
Recirculation System	Manual and auto, freely switchable, ultra-pure water recirculation system, keeping a low polluted-level of bacteria
Safety System	With factory and clients' two password, every system setting can be protected, avoiding unauthorized operating
Filter replacement remainder	The life-span can be set and the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.
Sanitization system	Ultra pure water pipeline can be regularly disinfected to keep a high quality water
RO membrane flush	Automatically RO membrane flushing function, extending its life-span
"on-off duty" mode	On/off duty mode increase filter life span
Water tank	Various kind of tanks to meet different needs and assure water-supply
Machine case	Human engineering design, streamline case
Pipeline and adaptor	Pipeline with NSF authorization to assure high quality ultrapure water; new easy-in-inserting adaptor to make convenience of cartridge maintaining and replacing
Pretreatment cartridge	Ultra long-life pre-cartridge, 6-8 times of normal active carbon (expect PP filter), unnecessary replacement for 2 year most, reducing the working cost
RO membrane	Manufactured by DOW or FCS, realize the combination of long-life and high-quality
Ultra purification cartridge	4 cartridges of ultra purification, using famous nuclear resin to assure best quality
UV module	Double wavelength (185nm & 254nm) UV lamp, restraining bacteria's increase, reducing TOC & enhancing the applicability
UF module	MWCO 5000D PES UF module, effectively eliminating endotoxin, can be used for precise cell cultivating and IVF
Terminal Filtration	Sartorius high-speed and large flux 0.45+0.2 μm polyether alternative compound filter terminal disinfection filter, assuring the quality absolutely axenic

Water flow chart: WBL



Model	Voltage V/Hz	Power (W)	Distilled water L/h	Chamber size	Outside size	Weight	Packing size
DIST	220/50	750	1.5	Ø180x200mm	290x290x390mm	3.5kg	245x285x510mm

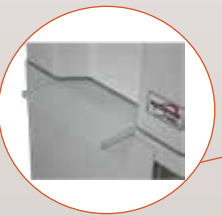
Accessories:



Extra pretreatment
Including: microfiltration, soft water, KDF filter cartridge, dislodge granular, residual chlorine, organics, heavy metal in case of scaling, bacterial growth & hard water.



Built-in tank
It has 2 pieces of 15 Liter tank, and save more room.



Humanized tray
It's a good place for water cup.



Built-in polishing resin cartridge
The capacity is 12 Liter, ensure the resistivity is more than 10MΩ-cm, and it could produce about 20000 Liter water.



Remote water gun
You could take the water from 3 meters away, if has the water gun.



Portable resistivity meter
Measure the resistivity easily in any place.



Utilizing global high-quality parts:

- RO membrane: DOW or CSM
- Ultra purification cartridge: Rohm & hass or DOW
- UV, UF cartridge: world famous brand
- Terminal filtration: world famous brand
- Pump: world famous brand
- Water quality monitor system: world famous brand
- Other components: world famous brand.



Incorporating cutting-edge technology:

- RO Series uses the reverse osmosis technology of NASA. Desalination rate ≥ 99%, eliminating virus rate ≥ 99.5%
- Special circle-inside function to guarantee water quality
- II mixed beds guarantees water quality and increase the life-span of ultra purification cartridge
- Double wave length UV lamp efficiently decreases virus and TOC
- Ultra purification cartridge efficiently eliminates endotoxin
- High flux terminal filtration with pre-filtration function.

Options:

Model	Description
171-1-000010	Bottom layer
171-1-000011	10' pretreatment filter, Including 10' spun fiber filter, water softener, KDF
171-1-000012	Pure polishing resin cartridge, Capacity is 12 Liter
171-1-000013	Tank, Capacity is 15 Liter
171-1-000014	Water gun, Including PFA telescopic pipe 1/4" 3M
171-1-000015	Water gun, Including PP telescopic pipe 1/4" 3M
171-1-000016	Portable resistivity meter

WPL-RO-HP-15/30 Systems, Deionized Pure Water Systems (Tap water inlet)

Model		Reverse osmosis deionized water purification system			
		WPL-RO-15	WPL-RO-HP-15	WPL-RO-30	WPL-RO-HP-30
Flow procedure		PF+KDF+AC+RO+AC-DI	PF+KDF+AC+RO+AC+UV+DI+TF	PF+KDF+AC+RO+AC+DI	PF+KDF+AC+RO+AC+UV+DI+TF
Application		<ul style="list-style-type: none"> • ware washing • Agricultural • General biological • Aquatic products feeding • Inlet water for Ultra pure water machine • water for sterilizer/ T&H chamber • Buffer disposing • Aseptic drinking water • Physical and chemical analysis • Fine chemistry industry • Inlet water for Ultra pure water machine • GC/HPLC 			
Pure water Index		High pure water resistivity:17.5-13 MΩ-cm, RO water(TDS):10-5ppm*, Heavy metal<0.1ppb, TOC<30ppb. Bacteria <1 CFU/ml(Only for UT model), Particle(>0.22μm)<1/ml(Only for UT model)			
Technical spec.	Output(25°C)	15 Liters/hour* / 30 Liters/hour*			
	Moment output	1.5 Liters/min (with pressure tank)			
	Pure water outlet	RO Water, High pure water			
	Dimension / Weight / Power	W×D×H:54×36×50cm/ 30-20 Kg/ 220V/50HZ, 120W			
Control system	Mode display	Power on, program, inlet rinse, producing, full, circle, regular outlet, disinfection, consumables replacing reminder			
	Safety	Low pressure and full water alarm, password,auto-reset, outlet forbidden if alarm or disinfection			
	System monitor	Monitoring quality of inlet water, RO water and ultrapure water, temperature, used and left time of consumables			
Water source required		Tap water; inlet TDS<200 ppm, 1-40°C, 1.0-3.5 kg/cm2 (if inlet TDS>200ppm, pretreatment is recommended)			
Purification system	Pretreatment unit	5μm spun fiber filterx+1 Long-effective KDF filterx+1 Granular active carbon filterx1			
	RO unit	100 GPD RO membranex1 (30L model: 2x100 GPD RO membrane)			
	Subsequent unit	Post active carbon filterx1 + Mixed resin cartridgex3 {30L model: Mixed resin cartridgex4} UT model: 254nm UV cartridgex1 + 0.2μm terminal filterx1			
Standard configuration		Main body(including:1 set cartridge)+4gallon tank			

* Inlet water: TDS200ppm, 25°C, 50psi and 15% recovery rate.

** GPD=gallon per day 1gallon=3.8L.

*** The quality of inlet water will effect output's and cartridge's life.

PF: Pretreating, KDF: Kinetic degradation fluxion, AC: Active carbon, RO: Reverse osmosis, DI: Ion exchange, UV: Ultraviolet, TF: Terminal filter.



WATER-PURIFICATION RO/UP water systems

WPL-RO-UP Systems, Ultra Pure Water Systems (Tap water inlet)

Model		Standards	Eliminating endotoxin	Low TOC	Comprehensive
		WPL-RO-UP-15-S WPL-RO-UP-30-S	WPL-RO-UP-15-UF WPL-RO-UP-30-UF	WPL-RO-UP-15-UV WPL-RO-UP-30-UV	WPL-RO-UP-15-UVF WPL-RO-UP-30-UVF
Flow procedure		PF+KDF+AC+RO+AC-DI+TF	PF+KDF+AC+RO+AC+DI+UF+TF	PF+KDF+AC+RO+UV+AC+DI+TF	PF+KDF+AC+RO+UV+AC+DI+UF+TF
Application		GC,HPLC,IC,ICP PCR, weather analysis Amino acid analysis Reagent preparation	Molecular biology Cell & tissue cultivation Life science,IVF electrophoresis	HPLC,IC,ICP-MS TOC & organism analyse CF-AAS,toxicology study Environmental analyse	HPLC,IC,ICP-MS,CF-AAS Physics,electrochemistry, Molecular biology, Cell cultivation
Pure water quality	Resistivity	18.2 MΩ-cm@25°C			
	Heavy metal	< 0.1ppb			
	TOC	<10 ppb		<3 ppb	
	Bacteria	<1 CFU/ml			
	Endotoxin	-	<0.001 EU/ml	-	<0.001 EU/ml
	Particle(>0.22µm)	<1 / ml			
	TDS (RO water)	5-10 ppm*			
Technical spec.	Output(25°C)	15/30 Liters/hour*			
	Moment output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
	Pure water outlet	RO Water, Ultra pure water			
	Dimension / Weight / Power	W×D×H: 50×36× 54cm / 20-30 Kg / 220V/50HZ, 120W			
Control system	Mode display	Power on, program, inlet rinse, producing, full, circle, regular outlet, disinfection, consumables replacing reminder			
	Safety	low pressure and full water alarm, password, auto-reset, outlet forbidden when alarm or disinfection status			
	System monitor	Monitoring quality of inlet water, RO water and ultrapure water, temperature, used and left time of consumables			
Water source required		Tap water; inlet TDS<200 ppm, 1-40°C, 1.0-3.5 kg/cm2 (if inlet TDS>200ppm, pretreatment is recommended)			
Purification system	Pretreatment unit	5µm spun fiber filter×1+ Long-effective KDF filter×1+ Granular active carbon filter×1 (30L model: 10" PP filter×1+10" KDF filter×1+10"granular active carbon filter×1)			
	RO unit	100 GPD RO membranex1 (30L model: 2×100 GPD RO membrane)			
	Subsequent unit	Post active carbon filter×1 +Ultra pure polishing resin cartridge× 0.2 +4µm terminal filter×1 UV model:+Double wavelength(254&185 nm)UV cartridge×1 UF model:+ 5000 Doulton UF cartridge×1 UVF model:+Double wavelength(254&185 nm)UV cartridge×5000+1 Doulton UF cartridge×1			
Standard configuration		Main body(including:1 set cartridge)4 gallon tank			

* Inlet water: TDS200ppm, 25°C, 50psi and 15% recovery rate.

** GPD=gallon per day 1 gallon=3.8L.

*** The quality of inlet water will effect output's and cartridge's life.

PF: Pretreating, KDF: Kinetic degradation fluxion, AC: Active carbon, RO: Reverse osmosis, DI: Ion exchange, UV: Ultraviolet (Double wavelength: 254&185nm), UF: Ultrafiltration TF: Terminal filter.



WPL-UP Systems, Ultra Pure Water Systems (Pure water inlet)

Model		Standards	Eliminating endotoxin	Low TOC	Comprehensive
		WPL-UP-S	WPL-UP-UF	WPL-UP-UV	WPL-UP-UVF
Flow procedure		AC+DI+TF	AC+DI+UF+TF	UV+AC+DI+TF	UV+AC+DI+UF+TF
Application		GC,HPLC,IC,ICP PCR, weather analysis Amino acid analysis Reagent preparation	Molecular biology Cell & tissue cultivation Life science,IVF electrophoresis	HPLC,IC,ICP-MS TOC & organism analyse CF-AAS,toxicology study Environmental analyse	HPLC,IC,ICP-MS,CF-AAS Physics,electrochemistry, Molecular biology, Cell cultivation
Pure water quality	Resistivity	Ultra pure water:18.2 MΩ-cm@25°C ;High pure water:≥3 MΩ-cm			
	Heavy metal	< 0.1ppb			
	TOC	<10 ppb		<3 ppb	
	Bacteria	<1 CFU/ml			
	Endotoxin	-	<0.001 EU/ml	-	<0.001 EU/ml
	Particle(>0.22µm)	<1 / ml			
Technical spec.	Output	1.5 Liters/min(Less output with UF/UV cartridge)			
	Pure water outlet	High pure, Ultra pure water			
	Dimension / Weight / Power	W×D×H:54×36×50cm/ 30-20 Kg/ 220V/50HZ, 120W			
Control system	Mode display	Power on, program, inlet rinse, producing, full, circle, regular outlet, disinfection, consumables replacing reminder			
	Safety	low pressure and full water alarm, password, auto-reset, outlet forbidden when alarm or disinfection			
	System monitor	Monitoring quality of inlet water, RO water and ultrapure water, temperature, used and left time of consumables			
Water source required		Ro water, distilled water, deionized water.5-45°C,1atm*			
Purification system		Post active carbon filterx+1Mixed bed resin cartridgex+1Ultra pure polishing resin cartridgex +4 0.2µm terminal filterx1 UV model:+Double wavelength(254&185 nm)UV cartridgex1 UF model:+ 5000 Doulton UF cartridgex1 UVF model:+Double wavelength(254&185 nm)UV cartridgex5000+1 Doulton UF cartridgex1			
Standard configuration		Main body(including:1 set cartridge)			

* The quality of inlet water will effect output's and cartridge's life.
AC: Active carbon, DI: Ion exchange, UV: Ultraviolet (Double wavelength: 254&185nm),
UF: Ultrafiltration TF: Terminal filter.

Consumable & accessories of WPL Series

Model	Specs	Replacement term
171-2-000030	5µm spun fiber filter	About 2-6 months
171-2-000031	Long-effective KDF filter	About 1 year
171-2-000032	Granular active carbon filter	About 6 months
171-2-000033	Post active carbon filter	About 9000 Liters water
171-2-000034	10" PP filter	About 2-6 months
171-2-000035	10" KDF filter	About 1 year
171-2-000036	10"granular active carbon filter	About 6 months
171-2-000037	100 GPD RO membrane	About 1-2 years
171-2-000038	Mixed bed resin cartridge	About 1000L water
171-2-000039	Ultra pure polishing resin cartridge	About 1000L water
171-2-000040	5000 Doulton UF cartridge	-
171-2-000041	0.2µm terminal filter	About 1 year
171-2-000042	254nm UV cartridge	-
171-2-000043	254 nm lamp	About 9000 hours
171-2-000044	Double wavelength (185&254nm)UV cartridge	-
171-2-000045	185&254 nm UV lamp	About 9000 hours



Colorful touch screen:
5.0 inch high-resolution touch screen controlling system



Comprehensive monitoring system:
- 3 water quality sensor, 2 flow sensor
- Quantified and timing dispense



Easy-to-replacing cartridge:
Independent pretreatment design, & integrated subsequent purification unit design, with fast inserted adapters, easy to replace.



Single stage RO and 2 pumps system:
- 1st pump, to achieve single stage RO system, easy to maintain.
- 2nd pump, to achieve system sanitizing and circulation.

WPL-T Series, Water purification system (Tap water inlet)

Features and Advantages:

- 5.0 inch colorful high-resolution touch screen (16:9) controlling system, achieve finger-touch new experience.
- 3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- 2 way flow sensor, achieve quantified dispensing of RO water, deionized water, or ultrapure water.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.
- Auto running data storing function with built-in SD card, and data can be exported through the USB interface.
- Comprehensive Information query and management function, master system status, water quality, cartridges usage and alarm information.
- System time setting (year/month/day/hour/minute), timing standby (0-60 minute), and timing shutdown (0-24 hour) function.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- 2 kind of pure water tank (liquid level PE tank and pressure tank). Also external tanks is optional.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- 4 in 1 ultrapure cartridge (can be divided to 4 independent cartridge) with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF. (0.45±0.1)μm double layer PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.



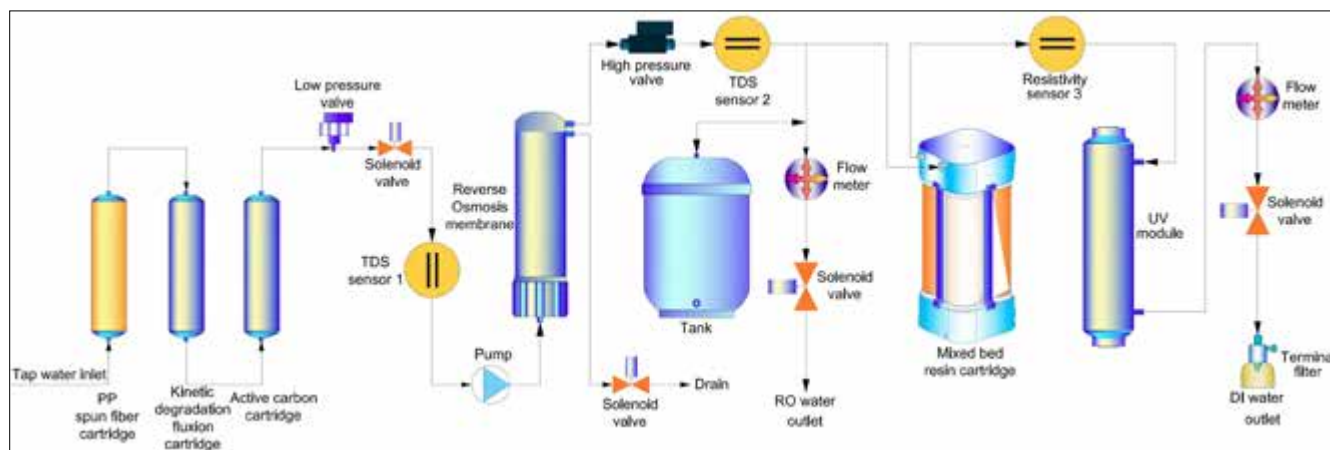
WPL-T SERIES

WPL-T SERIES, Deionized Water Systems, Tap Water Inlet

With 5.0 inch touch screen system, 3 way water quality sensor, 2 way flow sensor for quantified dispensing, single stage RO system & 1 pump, Master WPL-T series deionized water system is superior choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 15~30 liters/hour. It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 16MΩ.cm, near to 18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:



Model	WPL-RO-15-T	WPL-RO-HP-15-T	WPL-RO-30-T	WPL-RO-HP-30-T
Output (25°C)*	15 liters/hour		30 liters/hour	
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, deionized water			
Deionized water quality				
Resistivity	16-18.2MΩ.cm			
Bacteria	N/A	<0.1cfu/ml	N/A	<0.1cfu/ml
Particle (>0.1μm)	N/A	<1/ml	N/A	<1/ml
RO water quality				
Ion rejection rate	96%-99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles & bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature: 5-45°C, pressure: 1.0-4.0Kgf/cm²			
Dimension and weight	L×W×H: 500×360×540mm / Weight: about 20Kg			
Electrical Requirements	AC110-220V, 50/60H			
Power	120W			
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank			

Remarks: The value will be influenced by temperature and feed water's quality.



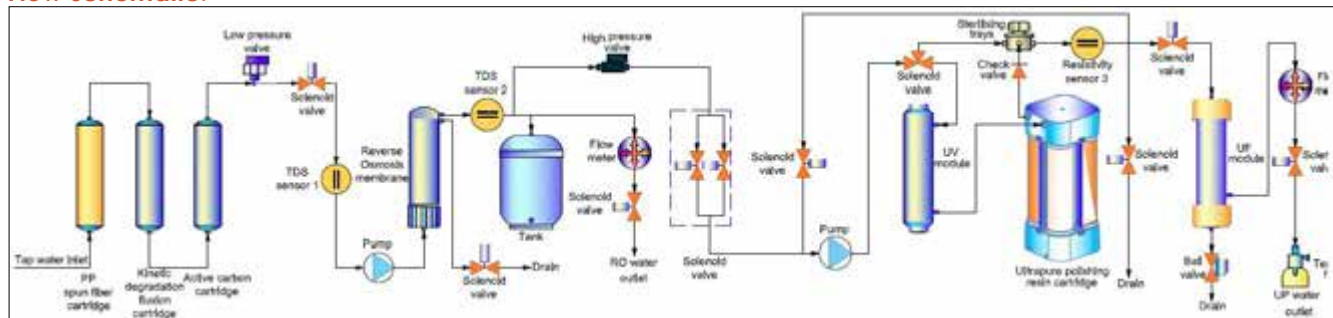
**WPL-RO-UP-T
SERIES**

WPL-RO-UP-T SERIES, Ultrapure water systems, Tap Water Inlet

With 5.0 inch touch screen system, 3 way water quality sensor, 2 way flow sensor for quantified dispensing, single stage RO system and 2 pumps, Master WPL-RO-UP-T series ultrapure water system is superior choice of ultrapure water for high grade experiments.

With tap water inlet, its output ranges from 15 to 30 liters/hour. It can produce single stage RO water and ultrapure water. The single stage RO water's ion rejection rate is more than 96%, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow schematic:



Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	WPL-RO-UP-15-S-T	WPL-RO-UP-15-UF-T	WPL-RO-UP-15-UV-T	WPL-RO-UP-15-UVF-T
	WPL-RO-UP-30-S-T	WPL-RO-UP-30-UF-T	WPL-RO-UP-30-UV-T	WPL-RO-UP-30-UVF-T
Output (25°C)*	15series-15 liters/hour, 30 series-30 liters/hour			
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, ultrapure water			
Ultrapure water quality				
Resistivity (25°C)	18.2MΩ.cm			
TOC*	<10ppb		<3ppb	
Bacteria	<0.1cfu/ml			
Particle (>0.1μm)	<1/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
RNases	N/A	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
RO water quality				
Ion rejection rate	96%–99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles & bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature: 5–45°C, pressure: 1.0–4.0Kg/cm²			
Dimension and weight	L×W×H: 500×360×540mm / Weight: about 20Kg			
Electrical Requirements	AC110–220V, 50/60H			
Power	120W			
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank			

Remarks: The value will be influenced by temperature and feed water's quality.

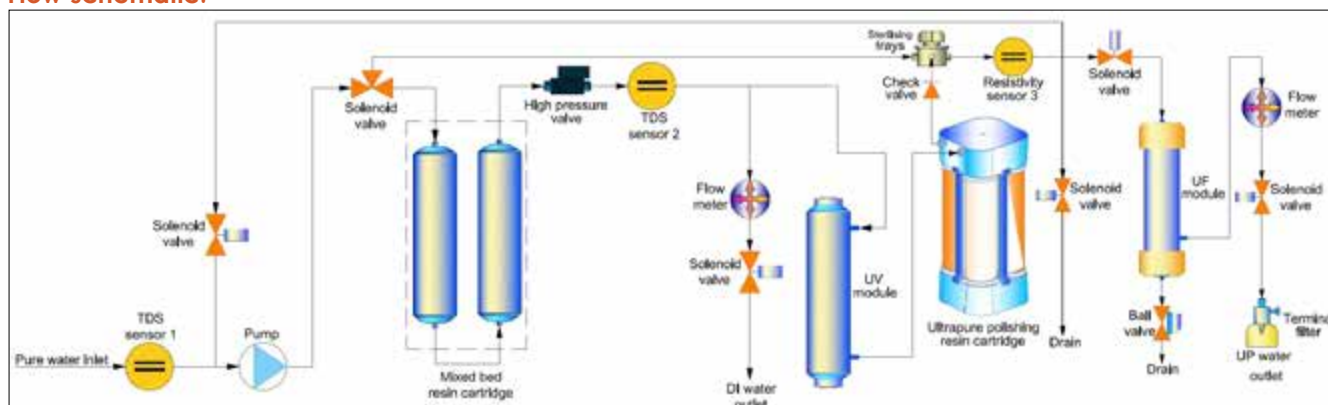


WPL-UP-T SERIES, Ultrapure water systems, Distilled water inlet

With 5.0 inch touch screen system, 3 way water quality sensor, 2 way flow sensor for quantified dispensing and 1 pump, Master WPL-UP-T series ultrapure water system is superior choice of ultrapure water for high grade experiments.

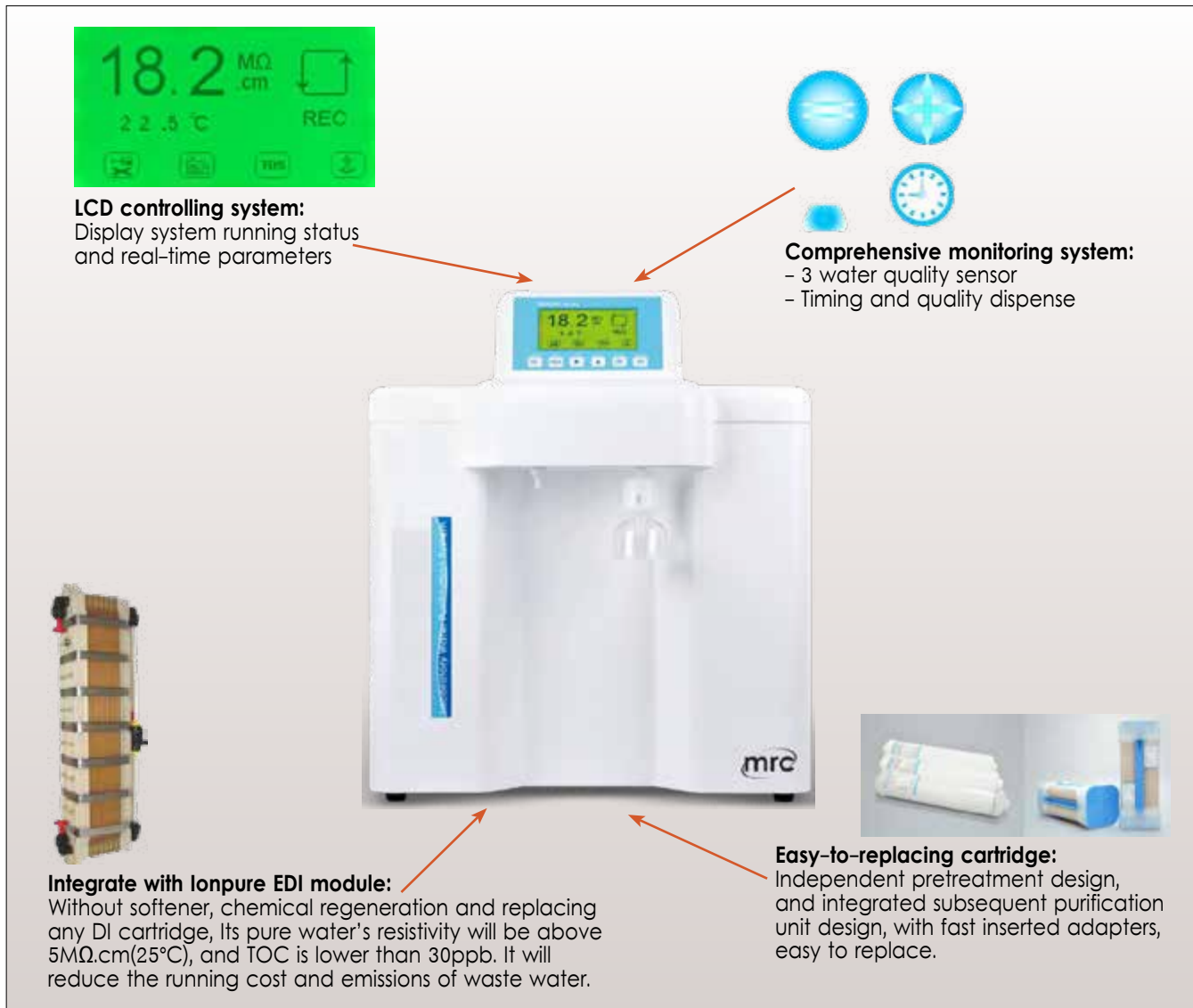
With pure water or distilled water inlet, its output is up to 2 liters/minute. It can produce deionized water and ultrapure water. The deionized water's resistivity is above 5MΩ.cm, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow schematic:



Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	WPL-UP-S-T	WPL-UP-UF-T	WPL-UP-UV-T	WPL-UP-UVF-T
Output	Up to 2 liters/minute (less output with UF cartridge)			
Pure water outlet	2: deionized water, ultrapure water			
Ultrapure water quality				
Resistivity (25°C)	18.2MΩ.cm			
TOC*	<10ppb		<3ppb	
Bacteria	<0.1cfu/ml			
Particle (>0.1μm)	<1/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
RNases	N/A	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
Deionized water quality				
Resistivity (25°C)	>5MΩ.cm			
Feed water requirements	RO water, distilled water, deionized water, 5–45°C,1atm*			
Dimension and weight	L×W×H: 500×360×540mm / Weight: about 18Kg			
Electrical Requirements	AC110–220V, 50/60Hz			
Power	120W			
Standard configuration	Main body (Including 1 set of cartridge)			

Remarks: The value will be influenced by temperature and feed water's quality.



LCD controlling system:
Display system running status and real-time parameters

Comprehensive monitoring system:
- 3 water quality sensor
- Timing and quality dispense

Integrate with Ionpure EDI module:
Without softener, chemical regeneration and replacing any DI cartridge, its pure water's resistivity will be above 5MΩ.cm(25°C), and TOC is lower than 30ppb. It will reduce the running cost and emissions of waste water.

Easy-to-replacing cartridge:
Independent pretreatment design, and integrated subsequent purification unit design, with fast inserted adapters, easy to replace.

WPL-EDI Series, Water purification system (Tap water inlet)

Features and Advantages:

- Integrating with Ionpure EDI technology and module.
- The largest capacity is 240 liters pure water per day.
- LCD (resolution: 240×128, dimension: 106×57mm) controlling system, intuitively display the system running state and various parameters.
- 3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- Auto running data storing function through RS232/USB communication port to computer for 1 year at least (optional).
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- External water tanks is optional to meet different need and assure ample water-supply.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- 4 in 1 ultrapure cartridge (can be divided to 4 independent cartridge) with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF. (0.45±0.1)μm double layer PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.



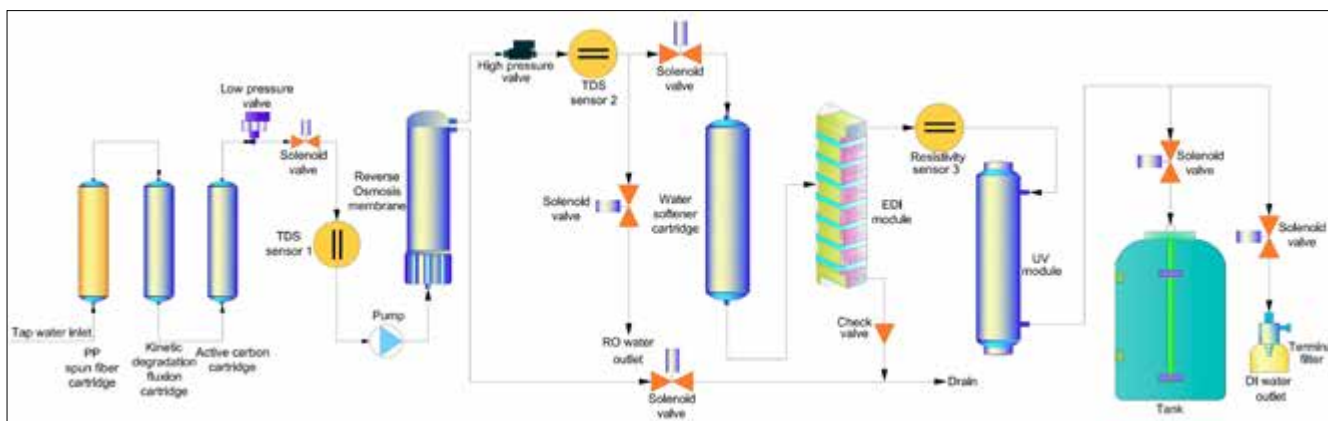
WPL-EDI-RO-DI SERIES, Deionized Water Systems, Tap Water Inlet

With LCD controlling system, 3 way water quality sensor, timing and quality dispensing, single stage RO system, 1 pump and Ionpure EDI module, WPL-EDI-RO-DI series deionized water system is superior choice of deionized water for general grade experiments.

With tap water inlet, the largest capacity is 240 liters per day. It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 96%, and deionized water is stable grade II pure water with resistivity $>5\text{M}\Omega\cdot\text{cm}(25^\circ\text{C})$, $\text{TOC}<30\text{ppb}$, and the lowest running cost.

It completely meets the requirements of general chemical or biological experiments for pure water, and is up to the standard of ISO 3696(Type II), ASTM D1193 (Resistivity of type II and TOC), and the requirements for pure water of CLSI (NCCLS) clinical laboratory, GB/T6682, America, Europe, Japan's pharmacopeia.

Flow schematic:



Model	WPL-EDI-RO-DI-10	WPL-EDI-RO-DI-10-UT
Output (25°C)*	10 liters/hour	
Pure water outlet	2: reverse osmosis water, deionized water	
EDI water quality		
Resistivity	>5MΩ.cm	
TOC*	<30ppb	
Silicone rejection rate	>99.9%	
Bacteria	N/A	<0.1cfu/ml
Particle (>0.1μm)	N/A	<1/ml
RO water quality		
Ion rejection rate	96%-99% (new RO membrane)	
Organic rejection rate	>99%, when MW>200 Dalton	
Particles & bacteria rejection rate	>99%	
Feed water requirements	Tap water, temperature: 5-45°C, pressure: 1.0-4.0Kg/cm²	
Dimension and weight	L×W×H: 500×360×540mm / Weight: about 20Kg	
Electrical Requirements	AC110-220V, 50/60H	
Power	120W	
Standard configuration	Main body (Including 1 set of cartridge)+20 liters PE tank	

Remarks: The value will be influenced by temperature and feed water's quality.
Can be upgraded to touch screen system.

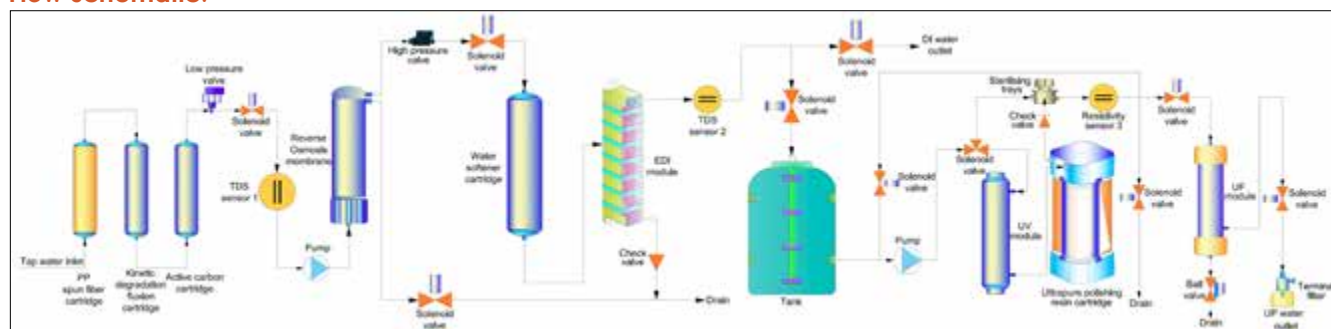


WPL-EDI-DI-UP SERIES, Ultrapure water systems, Tap Water Inlet

With LCD controlling system, 3 way water quality sensor, timing and quality dispensing, single stage RO system, 2 pump and Ionpure EDI module, WPL-EDI-DI-UP ultrapure water system is superior choice of ultrapure water for high grade experiments.

With tap water inlet, the largest capacity is 240 liters per day. It can produce deionized water and ultrapure water. The deionized water is stable grade II pure water with resistivity $>5\text{M}\Omega\cdot\text{cm}$ (25°C), $\text{TOC} < 30\text{ppb}$, and the lowest running cost. It completely meets the requirements of general chemical or biological experiments for pure water, and is up to the standard of ISO 3696 (Type II), ASTM D1193 (Resistivity of type II and TOC), and the requirements for pure water of CLSI (NCCLS) clinical laboratory, GB/T6682, America, Europe, Japan's pharmacopeia. And the ultrapure water's resistivity absolutely reaches to $18.2\text{M}\Omega\cdot\text{cm}$. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow schematic:



Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	WPL-EDI-DI-UP-10	WPL-EDI-DI-UP-10-UF	WPL-EDI-DI-UP-10-UV	WPL-EDI-DI-UP-10-UVF
Output (25°C)*	10 liters/hour			
Pure water outlet	2: deionized water, ultrapure water			
Ultrapure water quality				
Resistivity (25°C)	18.2MΩ.cm			
TOC*	<10ppb		<3ppb	
Bacteria	<0.1cfu/ml			
Particle (>0.1μm)	<1/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
RNases	N/A	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
RO water quality				
Resistivity	5MΩ.cm			
TOC*	<30ppb			
Silicone rejection rate	>99.9%			
Feed water requirements	Tap water, temperature: 5–45°C, pressure: 1.0–4.0Kg/cm ²			
Dimension and weight	L×W×H: 500×360×540mm / Weight: about 20Kg			
Electrical Requirements	AC110–220V, 50/60H			
Power	120W			
Standard configuration	Main body (Including 1 set of cartridge)			

Remarks: The value will be influenced by temperature and feed water's quality.



RO-UP Digital System

WPB Series, Water purification systems

- WPB-RO Series reverse osmosis pure water system (Tap water inlet)
- WPB-RO-DI Series deionized water system (Tap water inlet)
- WPB-Ultra Series ultra pure water system (Tap water inlet)
- WPB-Research Series ultra pure water system (DI water inlet).



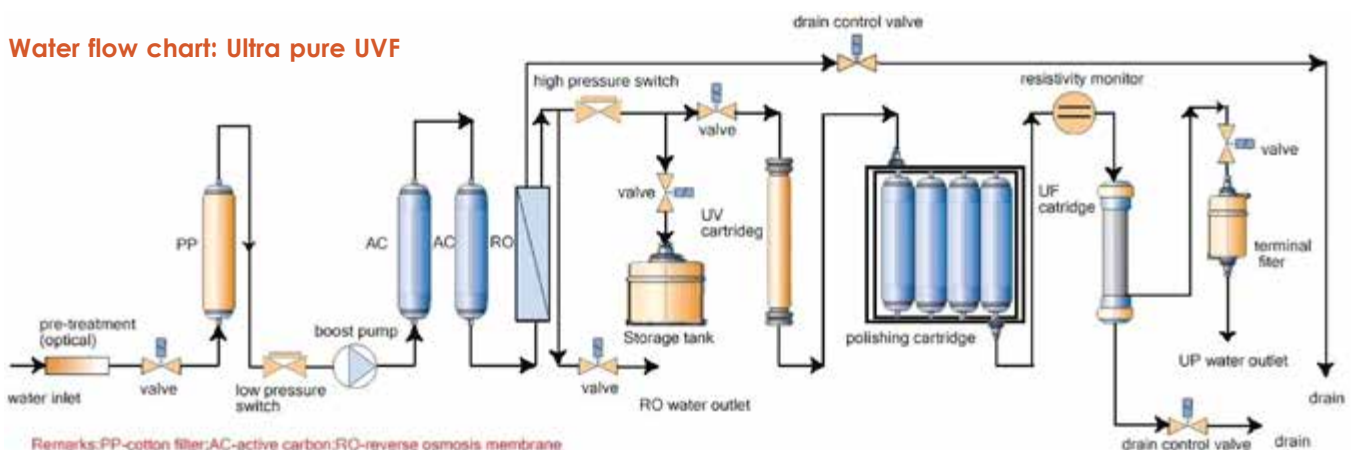
RO-DI System



RO-DI Digital System



RO System

Water flow chart: Ultra pure UVF

Remarks: PP-cotton filter; AC-active carbon; RO-reverse osmosis membrane

WATER-PURIFICATION RO/DI water systems

WPB-RO-(HP) Systems, Pure water systems (Tap water inlet)

Model		WPB-RO-15	WPB-RO-30	WPB-RO-HP-15 (D)****	WPB-RO-HP-30 (D)****
Flow procedure		PF+AC+RO+AC	PF+AC+RO+AC	PF+AC+RO+DI	PF+AC+RO+DI
Application		● ware washing ● Agricultural ● General biological ● Aquatic products feeding ● Inlet water for Ultra pure water machine ● Inlet water for sterilizer/T&H chamber		● Buffer disposing ● Aseptic drinking water ● Physical & chemical analysis ● Fine chemistry industry ● Inlet water for Ultra pure water machine ● GC/HPLC	
Purification system	Pretreatment unit	Pre-filter (optional)+Special spun fiber filter×1+ Special active carbon block filter×1+Special active carbon block filter×1			
	RO unit	100GPD RO membrane	2×100GPD RO membrane	100GPD RO membrane	2×100GPD RO membrane
	Subsequent unit	Post active carbon filter×1		Mixed bed resin cartridge×2	Mixed bed resin cartridge×3
Pure water quality	Desalination rate%	96-98*		Nearly 100*	
	TDS	5-10 ppm		RO water: 5-10 ppm	
	Resistivity	-		15-18.2MΩ-cm	
	Conductivity	-		0.055-0.067μs/cm	
Pure water outlet		RO Water		RO Water, Deionized water	
Control system		Automatic electronic pressure sensor controlling, RO membrane auto flushing, automatic stop without water, automatic stop when water tank full, automatic cutting off water when pump stopping, guaranteeing 24 hours' work.			
Water quality monitor		TDS test pen		TDS test pen + LCD online resistivity monitor	
Inlet water requirement		Tap water:TDS<200ppm,5-40℃,1.0-3.5Kg/cm²			
Output(25℃)		15 Liters/hour*	30 Liters/hour*	15 Liters/hour*	30 Liters/hour*
Instantaneous output		1.5 L/min (with pressure tank)			
Power		220V/50Hz, 48W plus model:72W			
External dimension/Weight		H×W×D:42×41×22cm / 12-14kg			
Standard configuration		Main body(including:1 set cartridge)+3.2aallon tank			

* Inlet water: TDS200ppm, 25°C, 50psi and 15% recovery rate.

** GPD=gallon per day 1gallon=3.8L.

*** The quality of inlet water will effect output's & cartridge's life. PF: Pretreating,

AC: Active carbon, RO: Reverse osmosis, DI: Ion exchange.

**** Digital display option.

WPB-UP Systems, Ultra pure water systems (DI water inlet)

Model		WPB-UP-S	WPB-UP-UF	WPB-UP-UV	WPB-UP-UVF
Specification		Standard	Eliminating endotoxin	Low TOC	Comprehensive
Flow procedure		AC+DI+TF	AC+DI+UF+TF	AC+DI+UV+TF	AC+UV+DI+UF+TF
Application		<ul style="list-style-type: none"> • Microanalysis • Environmental analysis • AA,ICP,IC • Buffer disposing • Pharmacy research • Medicine examining. 	<ul style="list-style-type: none"> • Molecular biology • PCR, gene research • Pharmacy research • Medicine examining, • Cell cultivating, • IVF etc. 	<ul style="list-style-type: none"> • Micro organic analysis • Environmental analysis • HPLC,TOC, VOC, GC/MS • Pharmacy research • Medicine examining. 	<ul style="list-style-type: none"> • Molecular biology • Micro organic analysis • Environmental analysis • Pharmacy research • Medicine examining • Cell cultivating • IVF etc.
Inlet water		Ro water, distilled water, deionized water			
Purification system		Post active carbon filterx1+Mixed bed resin cartridgex1+Ultra pure polishing resin cartridgex4+0.22μm terminal filterx1 UV model:+Double wavelength (185&254 nm) UV cartridgex1 UF model:+ 5000 Doulton UF cartridgex1 UVF model:+Double wavelength(185&254 nm) UV cartridgex1+5000 Doulton UF cartridgex1			
Pure water quality	Resistivity	18.2 MΩ-cm @25°C			
	Heavy metal	<0.1ppb			
	TOC	<10ppb		<5 ppb	
	Endotoxin	-	< 0.001Eu/ml	-	< 0.001Eu/ml
	particle(>0.22μm)	<1/ml			
	Bacteria	<1cfu/ml			
Pure water outlet		High pure, Ultra pure water			
Control & display system		Automatic electronic pressure sensor controlling, recirculation function; LCD online resistivity monitor.			
Output(25°C)		1.0 - 1.3 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
Power		220V/50Hz, 72W			
External dimension/Weight		HxWxD:42x41x22cm / 12-14kg			
Standard configuration		Main body(including:1 set cartridge)			

* Inlet water: TDS200ppm, 25°C, 50psi and 15% recovery rate.

** GPD=gallon per day 1gallon=3.8L.

*** The quality of inlet water will effect output's and cartridge's life. AC: Active carbon, DI: Ion exchange, UV: Ultraviolet (Double wavelength:254&185nm), UF: Ultrafiltration, TF: Terminal filter.

WPB-RO-UP Systems, Ultra pure water systems (Tap water inlet)

Model		WPB-RO-UP-15-S WPB-RO-UP-30-S	WPB-RO-UP-15-UF WPB-RO-UP-30-UF	WPB-RO-UP-15-UV WPB-RO-UP-30-UV	WPB-RO-UP-15-UVF WPB-RO-UP-30-UVF
Specification		Standard	Eliminating endotoxin	Low TOC	Comprehensive
Flow procedure		PF+AC+RO+DI+TF	PF+AC+RO+DI+UF+TF	PF+AC+RO+UV+DI+TF	PF+AC+RO+UV+DI+UF+TF
Application		<ul style="list-style-type: none"> • Microanalysis • Environmental analysis • AA, ICP, IC • Buffer disposing • Pharmacy research • Medicine examining. 	<ul style="list-style-type: none"> • Molecular biology • PCR, gene research • Pharmacy research • Medicine examining, • Cell cultivating, • IVF etc. 	<ul style="list-style-type: none"> • Micro organic analysis • Environmental analysis • HPLC, TOC, VOC, GC/MS • Pharmacy research • Medicine examining. 	<ul style="list-style-type: none"> • Molecular biology • Micro organic analysis • Environmental analysis • Pharmacy research • Medicine examining • Cell cultivating • IVF etc.
Purification system	Pretreatment unit	Pre-filter (optional) Special spun fiber filter (30L model: outside 10" spun fiber filter)x1+Special active carbon block filterx1+Special active carbon block filterx1			
	RO unit	100GPD RO membranex1 (30L model: 2x100GPD RO membrane)			
	Subsequent unit	Ultra pure polishing resin cartridgex 0.22+4µm terminal filterx1 UV model:+Double wavelength(254&185 nm)UV cartridgex1 UF model:+ 5000 Doulton UF cartridgex1 UVF model:+Double wavelength(254&185 nm)UV cartridgex5000+1 Doulton UF cartridgex1			
Pure water quality	Resistivity	18.2 MΩ-cm @25°C			
	Heavy metal	<0.1ppb			
	TOC	<10ppb		<5 ppb	
	Endotoxin	-	< 0.001Eu/ml	-	< 0.001Eu/ml
	particle(>0.22µm)	<1/ml			
	Bacteria	<1cfu/ml			
Pure water outlet		RO Water, Ultra pure water			
Control system		Automatic electronic pressure sensor controlling, RO membrane auto flushing, automatic stop without water, automatic stop when water tank full, automatic cutting off water when pump stopping, guaranteeing 24 hours' work.			
Water quality monitor		TDS test pen + LCD online resistivity monitor			
Inlet water requirement		Tap water:TDS<200ppm,5-40°C,1.0-3.5Kg/cm²			
Output(25°C)		15/30 Liters/hour*			
Instantaneous output		1.5 L/min (with pressure tank) (Less output with UF/UV cartridge)			
Power		220V/50Hz, 48W/ plus model:72W			
External dimension/Weight		HxWxD:42x41x22cm / 12-14kg			
Standard configuration		Main body(including:1 set cartridge)+ 3.2gallon tank			

* Inlet water: TDS200ppm, 25°C, 50psi and 15% recovery rate.
lon=3.8L.

** GPD=gallon per day 1gal-

*** The quality of inlet water will effect output's and cartridge's life. PF:Pretreating, AC: Active carbon, RO:Reverse osmosis, DI: Ion exchange, UV:Ultraviolet(Double wavelength:254&185nm), UF:Ultrafiltration, TF:Terminal filter.

Consumables & accessories:

Model	Specs	Replacement term
171-2-000050	Special spun fiber filter	2-6 months*
171-2-000051	Special active carbon block filter	4-6months*
171-2-000052	Post active carbon filter	1 year*
171-2-000053	100 GPD RO membrane	1-2 years
171-2-000054	Mixed bed resin cartridge	Around 1000L
171-2-000055	Ultra pure polishing resin cartridge	Around 1000L
171-2-000056	0.22µm terminal filter	
171-2-000057	TDS test pen	
171-2-000058	5000 Doulton UF cartridge	
171-2-000059	Double(185&254nm) wave length UV cartridge	Lamp: about 9000h
171-2-000060	Double (185&254nm)wave lamp	About 9000h
171-2-000061	pre-filter	10"PP+resin soften water filter
171-2-000062		10"PP filter
171-2-000063		10"soften water resin filter
		2-6month *
		Resin : 2-3month *

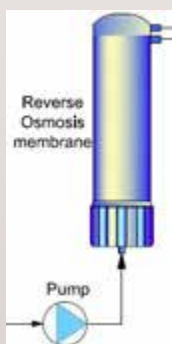
WATER-PURIFICATION Laboratory Water Purification Systems



LCD controlling system:
- Display system running status



TDS/conductivity test pen:
Portable TDS/conductivity test pen, testing feed water, RO water and deionized water's quality.



Single stage RO and 1 pump system:
1st pump, to achieve single stage RO system, easy to maintain.



Easy-to-replacing cartridge:
Independent pretreatment design, with fast adapters, easy to replace, and running in low cost.

WPG-100/200/300 (-TA), deionized water system (Tap water inlet)

Features and Advantages:

- Automatic microcomputer controlling system, LED real-time animation mode display.
- Running status is showed in the LED display, such as flushing, producing water, full tank, water shortage, leakage and service.
- Power on self-test, power reset, alarm when work more than 6 hours continuously, water shortage, leakage, low and high pressure.
- 3 procedure of the reverse osmosis membrane's self-flushing: power on, water shortage reset and work more than 2 hours continuously, extend the life of RO membrane.
- 2 kind of installation type, Desk and wall-mounted (except for 45 series and built-in tank model).
- High-strength metal shell with powder painting technics, achieve elegant appearance and meeting GLP standard
- Pretreatment cartridges, RO module, deionized cartridges, all designed to modularization independently, easy for maintenance and replacement.
- Built-in 12 liters pressure water tank (TA series), save laboratory space, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Standard pretreatment (including PP fiber, and active carbon cartridge), effectively protect RO membrane and run in low cost.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- Precision mixed resin cartridge, combine high pure water quality and low running cost.
- Portable TDS/conductivity test pen, convenient to test feed water, RO water and deionized water's quality.

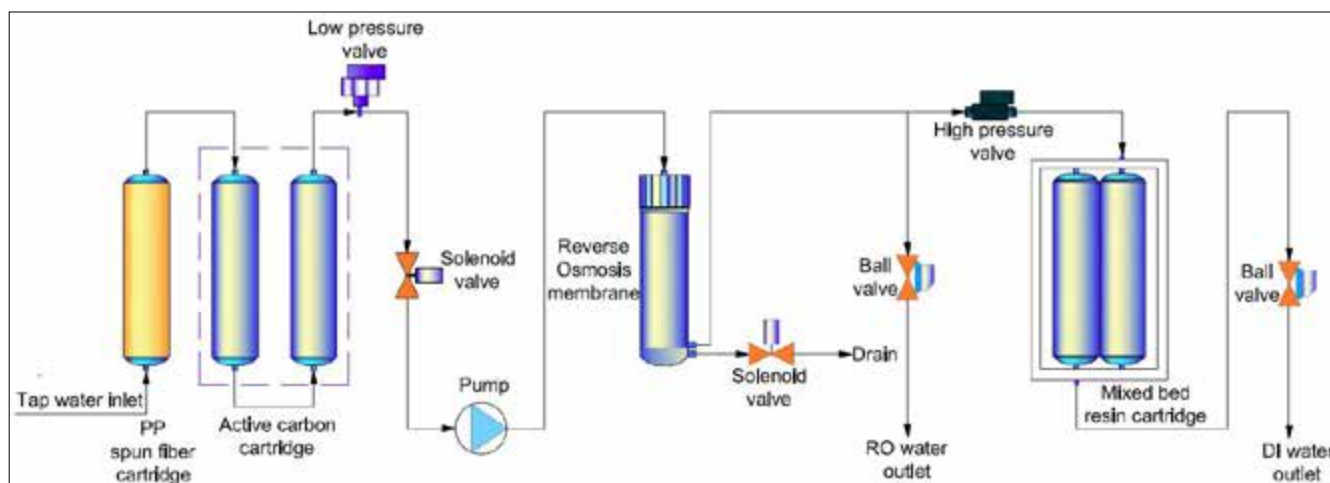


WPG-100/200/300 SERIES, Deionized Water System, Tap Water Inlet

With LED controlling system, single stage RO system, 1 pump, Portable TDS/conductivity test pen, and built-in 12 liters tank (TA series), WPG-100/200/300 deionized water system is basic choice of deionized water for general grade experiments. And WPG-100/200-TA is added built-in 12 liters tank on the basis of WPG-100/200/300. With tap water inlet, its output ranges from 15 to 45 liters/hour.

It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 13MΩ.cm, near to 17.5MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water. And it is perfect upgraded replacement for water distiller.


Flow schematic:



Model	WPG-100	WPG-200	WPG-300
	WPG-100-TA	WPG-200-TA	—
Output (25°C)*	15 liters/hour	30 liters/hour	45 liters/hour
Flow rate	Up to 2 liters/minute (with pressure tank)		
Pure water outlet	2: reverse osmosis water, deionized water		
Deionized water quality			
Resistivity	13–17.5MΩ.cm		
Bacteria	<0.1cfu/ml (with optional 0.2µm PES terminal filter)		
Particle (>0.1µm)	<0.1cfu/ml (with optional 0.2µm PES terminal filter)		
RO water quality			
Ion rejection rate	96%–99% (new RO membrane)		
Organic rejection rate	>99%, when MW>200 Dalton		
Particles & bacteria rejection rate	>99%		
Feed water requirements	Tap water, temperature: 5–45°C, pressure: 1.0–4.0Kgf/cm²		
Dimension and weight	WPG-100/200: L×W×H: 410×320×420mm / Weight: about 15Kg WPG-100/200-TA, 300: L×W×H: 410×400×420mm / Weight: about 20Kg		
Electrical Requirements	AC110–220V, 50/60H		
Power	WPG-100/200 Series: 72W, WPG-300: 120W		
Standard configuration	Main body (Including 1 set of cartridge)+built-in 12 liters pressure tank (TA Series) + TDS/conductivity test pen.		

Remarks: The value will be influenced by temperature and feed water's quality.

WPF-RO-63/94/125, Reverse osmosis water system, Tap water inlet



LCD controlling system:
Display system running status and real-time parameters.

Comprehensive monitoring system:
- 3 water quality sensor
- Timing and quality dispense.

Stainless steel shell:
With powder painting technics, achieve elegant appearance and meeting GLP standard.

High-capacity & easy-to-replacing cartridge:
High-capacity and independent cartridges design, with fast inserted adapters, easy to replace, and achieve running in the lowest cost.

Built-in 2 water tanks:
Built-in 2 set 15 liters airtight plastic pressure water tank, save more lab space.

Features and Advantages:

- LCD (resolution: 240×128, dimension: 106×57mm) controlling system, intuitively display the system running state and various parameters.
- 3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- Auto running data storing function through RS232/USB communication port to computer for 1 year at least (optional).
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- Built-in 2 set 15 liters airtight plastic pressure water tank, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- High-strength stainless steel shell with powder painting technics, avoid rusting and keep clean, to meet GLP standard.
- Floor type with wheels on the bottom design, convenient to move.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Long life and high-capacity pretreatment (including PP fiber, and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- Special high-capacity ultrapure polishing technology, to optimize pure water quality maximumly with minimum resin. With DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF. 0.2μm PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.
- WPF-RO series can be upgraded to touch screen system, just the same as Master to Master Touch.

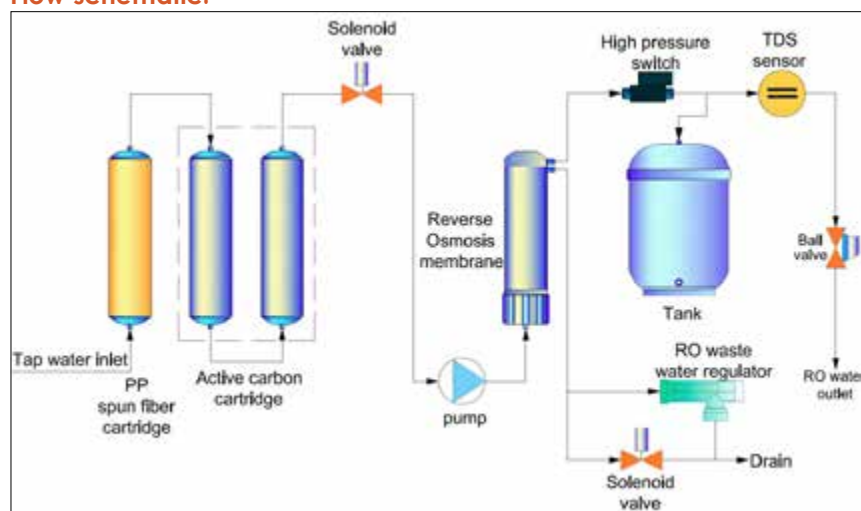


WPF-RO-63/94/125, Reverse Osmosis Water Systems, Tap Water Inlet

With microcomputer controlling system in LED display, stainless steel shell, built-in 2 set pressure tanks, single stage RO system, 1 pump, portable TDS test pen and on-line conductivity monitor, WPF-RO series reverse osmosis water system is economic choice of RO water's mass usage for general glassware washing.

With tap water inlet, its output ranges from 63 to 125 liters/hour. It can produce single stage RO water. The single stage RO water's ion rejection rate is more than 96% (new RO membrane), organic rejection rate >99% (when $MW > 200$ Dalton), particles and bacteria rejection rate >99%. It is suitable for glassware washing, feed of ultrapure water system, autoclave sterilizer, constant temperature and humidity chamber, salt spray test chamber, dampening machine and etc.

Flow schematic:



Model	WPF-RO-63	WPF-RO-94	WPF-RO-125
Output (25°C)*	63 liters/hour	94 liters/hour	125 liters/hour
Pure water outlet	1: reverse osmosis water		
RO water quality			
Ion rejection rate	96%-99% (new RO membrane)		
Organic rejection rate	>99%, when MW>200 Dalton		
Particles and bacteria rejection rate	>99%		
Bacteria	<0.1cfu/ml (with optional 0.2µm PES terminal filter)		
Particle(>0.2µm)	<1/ml (with optional 0.2µm PES terminal filter)		
Feed water requirements	Tap water, temperature:5-45°C, pressure:1.0-4.0Kg/cm²		
Dimension / Weight	L × W × H: 640×540×1110mm / Weight: about 60Kg		
Electrical Requirements	AC110-240V, 50/60Hz		
Power	120W	240W	
Standard configuration	Main body (Including 1 set of cartridge)+2 set built-in 15 liters pressure tank +TDS/conductivity test pen		

*The value will be influenced by temperature and feed water's quality.

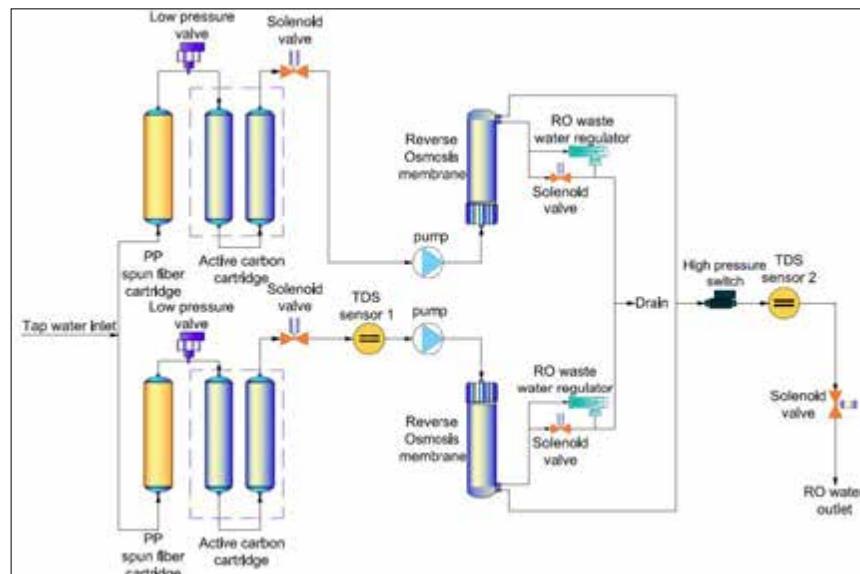


WPF-RO-250, Reverse Osmosis Water System, Tap Water Inlet

WPF-RO-250 is nearly the smallest water system, with the same output-250 liters/hour. It meets the requirements of water for production and central water supply.

WPF-RO-250 is single stage RO water system, with LCD controlling system, 2 way water quality sensor, timing and quality dispensing, stainless steel shell. The single stage RO water's ion rejection rate is more than 96% (new RO membrane), organic rejection rate>99% (when mw>200 Dalton), particles and bacteria rejection rate>99%. It is suitable for glassware washing and general grade experiments.


Flow schematic:



Model	WPF-RO-250
Output (25°C)*	250 liters/hour
Pure water outlet	1: reverse osmosis water
RO water quality	
Ion rejection rate	96%-99% (new RO membrane)
Organic rejection rate	>99%, when MW>200 Dalton
Particles and bacteria rejection rate	>99%
Bacteria	<0.1cfu/ml (with optional 0.2μm PES terminal filter)
Particle (>0.2μm)	<1/ml (with optional 0.2μm PES terminal filter)
Feed water requirements	Tap water, temperature:5-45°C, pressure:1.0-4.0Kgf/cm ²
Dimension / Weight	L × W × H: 760×550×1210mm / Weight: about 80Kg
Electrical Requirements	AC110-240V, 50/60Hz
Power	480W
Standard configuration	Main body (Including 1 set of cartridge)

*The value will be influenced by temperature and feed water's quality.

WPF-RO-DI-45/63/94/125, Deionized Water Systems, Tap Water Inlet



LCD controlling system:
Display system running status and real-time parameters.

Comprehensive monitoring system:
- 3 water quality sensor
- Timing and quality dispense.

Stainless steel shell:
With powder painting technics, achieve elegant appearance and meeting GLP standard.

High-capacity & easy-to-replacing cartridge:
High-capacity and independent cartridges design, with fast inserted adapters, easy to replace, and achieve running in the lowest cost.

Built-in 2 water tanks:
Built-in 2 set 15 liters airtight plastic pressure water tank, save more lab space.

Features and Advantages:

- LCD (resolution: 240×128, dimension: 106×57mm) controlling system, intuitively display the system running state and various parameters.
- 3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- Auto running data storing function through RS232/USB communication port to computer for 1 year at least (optional).
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- Built-in 2 set 15 liters airtight plastic pressure water tank, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- High-strength stainless steel shell with powder painting technics, avoid rusting and keep clean, to meet GLP standard.
- Floor type with wheels on the bottom design, convenient to move.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Long life and high-capacity pretreatment (including PP fiber, and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- Special high-capacity ultrapure polishing technology, to optimize pure water quality maximumly with minimum resin. With DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- 0.2μm PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.
- WPF-RO-DI series can be upgraded to touch screen system, just the same as Master to Master Touch.



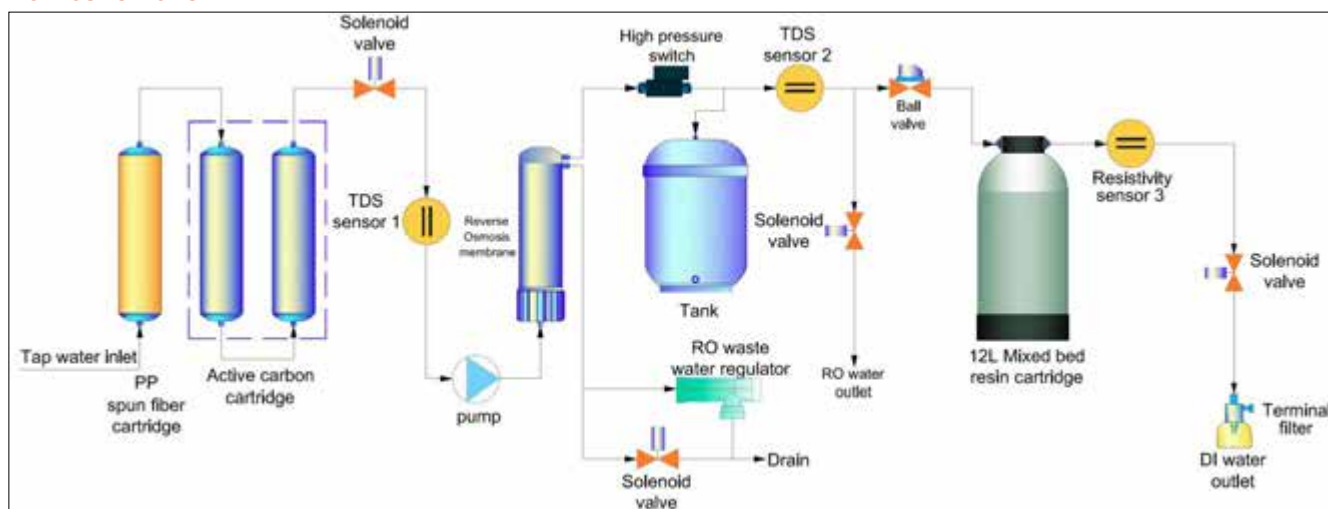
WPF-RO-DI-45/63/94/125, Deionized Water Systems, Tap Water Inlet

With LCD controlling system, 3 way water quality sensor, timing and quality dispensing, stainless steel shell, built-in 2 set pressure tanks, single stage RO system and 1 pump, WPF-RO-DI series deionized water system is superior choice of deionized water's mass usage for general grade experiments. With tap water inlet, its output ranges from 45 to 125 liters/hour.

It can produce single stage RO water and deionized water.

The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 10MΩ.cm, near to 18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:



Model	WPF-RO-DI-45	WPF-RO-DI-63	WPF-RO-DI-94	WPF-RO-DI-125
Output (25°C)*	45 liters/hour	63 liters/hour	94 liters/hour	125 liters/hour
Pure water outlet	2: reverse osmosis water, deionized water			
Deionized water quality				
Resistivity	10~18.2MΩ/cm			
Bacteria	<0.1cfu/ml			
Particle (>0.2μm)	<1/ml			
RO water quality				
Ion rejection rate	96%~99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles and bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature:5~45°C, pressure:1.0~4.0Kg/cm²			
Dimension / Weight	L × W × H: 640×540×1110mm / Weight: about 65Kg			
Electrical Requirements	AC110~240V, 50/60Hz			
Power	120W		240W	
Standard configuration	Main body (Including 1 set of cartridge)+2 set built-in 15 liters pressure tank			

*The value will be influenced by temperature and feed water's quality.

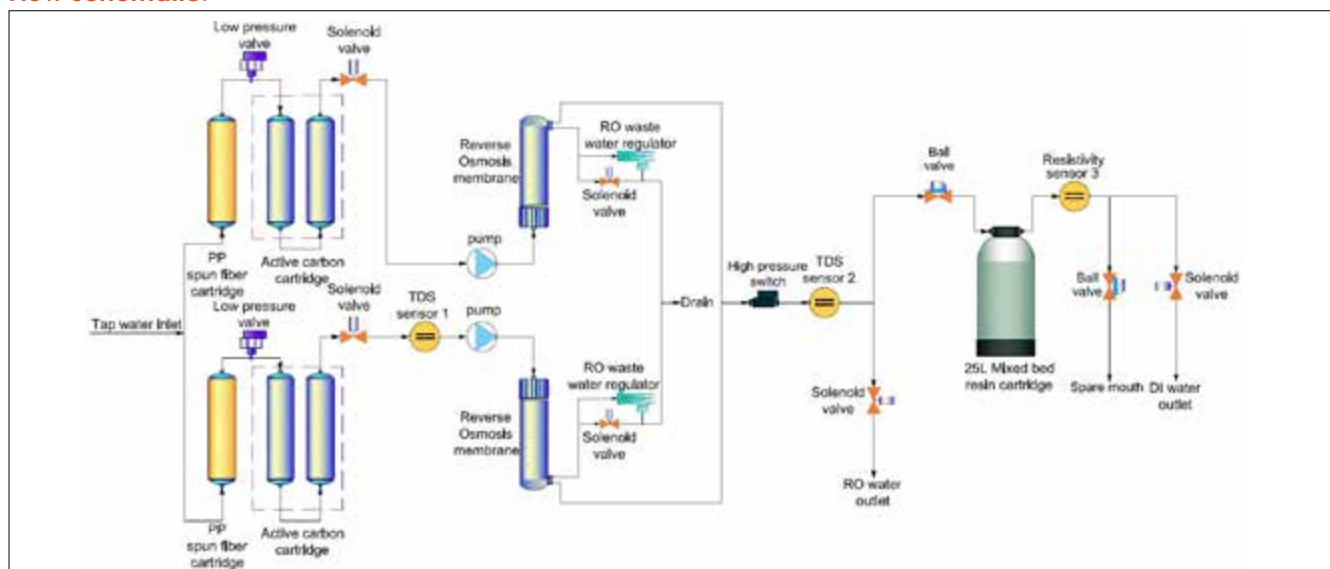


WPF-RO-DI-63

WPF-RO-DI-250, Deionized Water System, Tap Water Inlet

WPF-RO-DI-250 is nearly the smallest water system, with the same output-250 liters/hour. It meets the requirements of water for production and central water supply.


WPF-RO-DI-250 is deionized water system, with LCD controlling system, 2 way water quality sensor, timing and quality dispensing, stainless steel shell. The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 10MΩ.cm, near to 18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:

Model	WPF-RO-DI-250
Output (25°C)*	250 liters/hour
Pure water outlet	2: reverse osmosis water, deionized water
Deionized water quality	
Resistivity	10-18.2MΩ/cm
Bacteria	<0.1cfu/ml (with optional 0.2μm PES terminal filter)
Particle (>0.2μm)	<1/ml (with optional 0.2μm PES terminal filter)
RO water quality	
Ion rejection rate	96%-99% (new RO membrane)
Organic rejection rate	>99%, when MW>200 Dalton
Particles and bacteria rejection rate	>99%
Feed water requirements	Tap water, temperature:5-45°C, pressure:1.0-4.0Kgf/cm ²
Dimension / Weight	L × W × H: 760×550×1210mm / Weight: about 85Kg
Electrical Requirements	AC110-240V, 50/60Hz
Power	480W
Standard configuration	Main body (Including 1 set of cartridge)

*The value will be influenced by temperature and feed water's quality.

WPF-RO-DI-UP-250, Ultrapure water system, Standard type



LCD controlling system:
Display system running status and real-time parameters.

Comprehensive monitoring system:
- 3 water quality sensor
- Timing and quality dispense.

Stainless steel shell:
With powder painting technics, achieve elegant appearance and meeting GLP standard.

High-capacity & easy-to-replacing cartridge:
High-capacity and independent cartridges design, with fast inserted adapters, easy to replace, and achieve running in the lowest cost.

Built-in 2 water tanks:
Built-in 2 set 15 liters airtight plastic pressure water tank, save more lab space.

Features and Advantages:

- LCD (resolution: 240×128, dimension: 106×57mm) controlling system, intuitively display the system running state and various parameters.
- 3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- Auto running data storing function through RS232/USB communication port to computer for 1 year at least (optional).
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- Built-in 2 set 15 liters airtight plastic pressure water tank, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- High-strength stainless steel shell with powder painting technics, avoid rusting and keep clean, to meet GLP standard.
- Floor type with wheels on the bottom design, convenient to move.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Long life and high-capacity pretreatment (including PP fiber, and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- Special high-capacity ultrapure polishing technology, to optimize pure water quality maximumly with minimum resin. With DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- 0.2μm PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.
- WPF-RO-DI-UP-250 can be upgraded to touch screen system, just the same as Master to Master Touch.

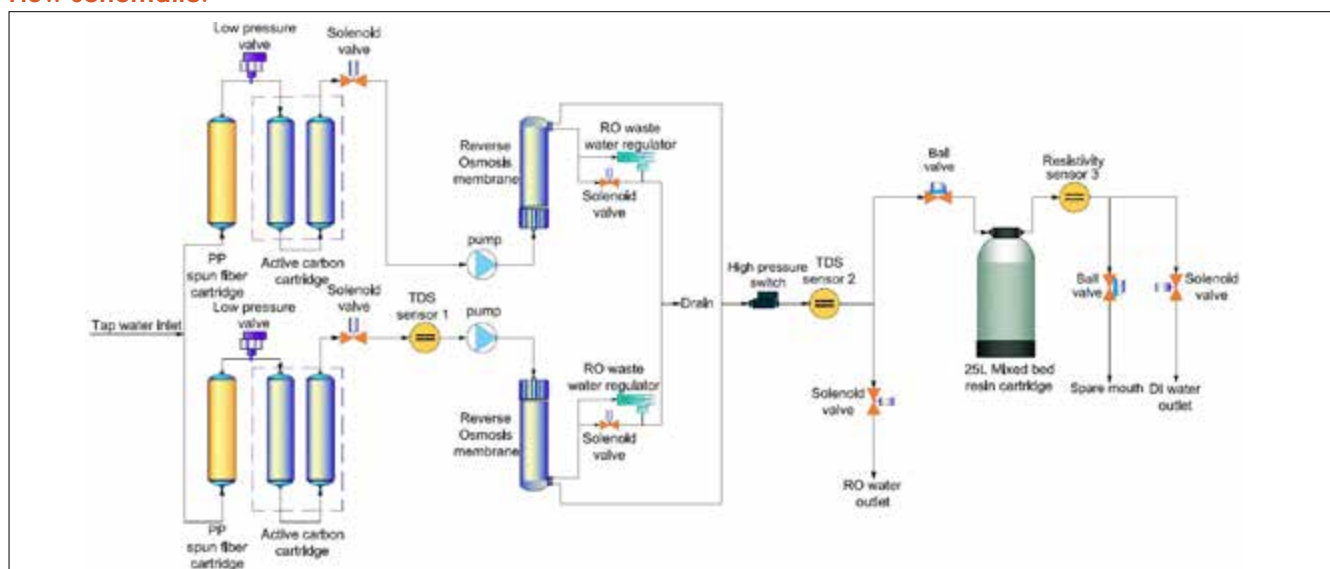


WPF-RO-DI-UP-250, Deionized Water System, Tap Water Inlet

WPF-RO-DI-UP-250 is nearly the smallest water system, with the same output-250 liters/hour. It meets the requirements of water for production and central water supply.

WPF-RO-DI-UP-250 is ultrapure water system, with LCD controlling system, 2 way water quality sensor, timing and quality dispensing, stainless steel shell. The single stage RO water's ion rejection rate is more than 96%, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow schematic:




Model	WPF-RO-DI-UP-250
Output (25°C)*	250 liters/hour
Pure water outlet	2: reverse osmosis water, deionized water
Deionized water quality	
Resistivity	18.2MΩ/cm
Bacteria	<0.1cfu/ml (with optional 0.2μm PES terminal filter)
Particle (>0.2μm)	<0.1/ml (with optional 0.2μm PES terminal filter)
RO water quality	
Ion rejection rate	96%-99% (new RO membrane)
Organic rejection rate	>99%, when MW>200 Dalton
Particles and bacteria rejection rate	>99%
Feed water requirements	Tap water, temperature:5-45°C, pressure:1.0-4.0Kgf/cm ²
Dimension / Weight	L × W × H: 760×550×1210mm / Weight: about 88Kg
Electrical Requirements	AC110-240V, 50/60Hz
Power	480W
Standard configuration	Main body (Including 1 set of cartridge)

*The value will be influenced by temperature and feed water's quality.

WATER-PURIFICATION Laboratory Water Purification Systems

WPF-45/60/90D, Deionized Water Systems, Tap Water Inlet



Colorful touch screen:
7.0 inch high-resolution touch screen controlling system

Comprehensive monitoring system:
- 3 water quality sensor, 2 flow sensor
- Quantified and timing dispense

Integrate with EDI module:
Without softener, chemical regeneration and replacing any DI cartridge, Its pure water's resistivity will be above 10MΩ.cm(25°C), and TOC is lower than 30ppb. It will reduce the running cost & emissions of waste water.

Double stage RO system:
With 2 stage pump, 2 stage RO membrane and buffer tank, system achieves stable water quality, little drain, and low running cost.

Features and Advantages:

- 7.0 inch colorful high-resolution touch screen (16:9) controlling system, achieve finger-touch new experience.
- 3 way online water quality sensor, detect the quality of 1st stage, 2nd stage RO water, deionized water, Edi water or ultrapure water respectively. And warn once water quality's standard exceeding.
- 2 way flow sensor, achieve quantified dispensing of 2nd stage RO water, deionized water, Edi water or ultrapure water.
- Integrate with EDI module (EDI series), without softener, chemical regeneration and replacing any DI cartridge, Its pure water's resistivity will be above 10MΩ.cm(25°C), and TOC is lower than 30ppb.
- Double stage reverse osmosis technology, assure 2nd RO water quality's stability from different source water.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.
- Auto running data storing function with built-in SD card, and data can be exported through the USB interface.
- Comprehensive Information query and management function, master system status, water quality, cartridges usage and alarm information.
- System time setting (year/month/day/hour/minute), timing standby (0-60 minute), and timing shutdown (0-24 hour) function.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Built-in 20 liters PE tank and 20 liters airtight plastic pressure water tank. Also external tanks is optional.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Detachable water collector design, store water-drop to avoid water's splashing, and convenient for cleaning.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- Ultrapure cartridge with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- 0.2μm high flux PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.

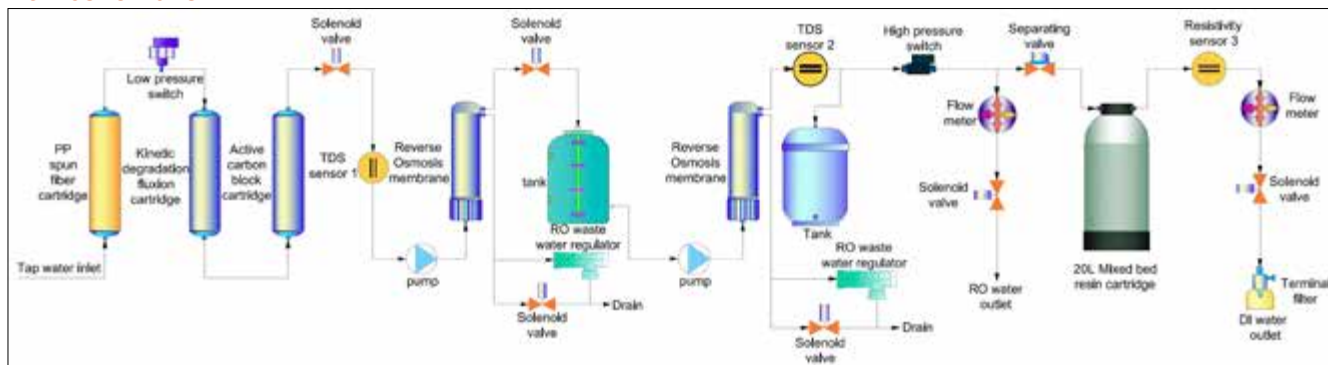


WPF-45/60/90D, Deionized Water Systems, Tap Water Inlet

With 7.0 inch touch screen system, 3 way water quality sensor, 2 way flow sensor for quantified dispensing, and 2 stage RO system, Center series deionized water system is top choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 45 to 90 liters/hour. It can produce 2nd stage RO water and deionized water. The 2nd stage RO water's conductivity can stay 1-5 μ S/cm, and the deionized water's resistivity absolutely reaches to 10M Ω .cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:




Model	WPF-45D	WPF-60D	WPF-90D
Output -2 nd stage RO water*	45 liters/hour	60 liters/hour	90 liters/hour
Output -deionized water*	Up to 2 liters/minute (when tank is full)		
Deionized water quality			
Resistivity	>10 MΩ/cm		
Bacteria	<0.1cfu/ml		
Particle (>0.2μm)	<1/ml		
RO water quality			
Conductivity – 1 st stage RO water	Feed water conductivity×5%*		
Conductivity – 2 nd stage RO water	1-5μs/cm*		
Feed water requirements	Tap water, temperature: 5-45°C, pressure:1.0-4.0Kg/cm²		
Dimension / Weight	L × W × H: 610×585×1580mm / Weight: about 70Kg		
Electrical Requirements	AC110-240V, 50/60Hz		
Power	480W		
Standard configuration	Main body (Including 1 set of cartridge)+built-in 20 liters PE tank and 20 liters pressure tank		

*The value will be influenced by temperature and feed water's quality.

WATER-PURIFICATION Laboratory Water Purification Systems

WPF-45/60/90D, Deionized Water Systems, Tap Water Inlet



Colorful touch screen:
7.0 inch high-resolution touch screen controlling system

Comprehensive monitoring system:
- 3 water quality sensor, 2 flow sensor
- Quantified and timing dispense

Integrate with EDI module:
Without softener, chemical regeneration and replacing any DI cartridge, Its pure water's resistivity will be above 10MΩ.cm(25°C), and TOC is lower than 30ppb. It will reduce the running cost & emissions of waste water.

Double stage RO system:
With 2 stage pump, 2 stage RO membrane and buffer tank, system achieves stable water quality, little drain, and low running cost.

Features and Advantages:

- 7.0 inch colorful high-resolution touch screen (16:9) controlling system, achieve finger-touch new experience.
- 3 way online water quality sensor, detect the quality of 1st stage, 2nd stage RO water, deionized water, Edi water or ultrapure water respectively. And warn once water quality's standard exceeding.
- 2 way flow sensor, achieve quantified dispensing of 2nd stage RO water, deionized water, Edi water or ultrapure water.
- Integrate with EDI module (EDI series), without softener, chemical regeneration and replacing any DI cartridge, Its pure water's resistivity will be above 10MΩ.cm(25°C), and TOC is lower than 30ppb.
- Double stage reverse osmosis technology, assure 2nd RO water quality's stability from different source water.
- System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve.
- System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water.
- All Cartridges replacing alarm function, based on time, or water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function (interval and continuous time setting), extend RO membrane's life.
- Auto running data storing function with built-in SD card, and data can be exported through the USB interface.
- Comprehensive Information query and management function, master system status, water quality, cartridges usage and alarm information.
- System time setting (year/month/day/hour/minute), timing standby (0-60 minute), and timing shutdown (0-24 hour) function.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Built-in 20 liters PE tank and 20 liters airtight plastic pressure water tank. Also external tanks is optional.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Detachable water collector design, store water-drop to avoid water's splashing, and convenient for cleaning.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate.
- Ultrapure cartridge with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- 0.2μm high flux PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.

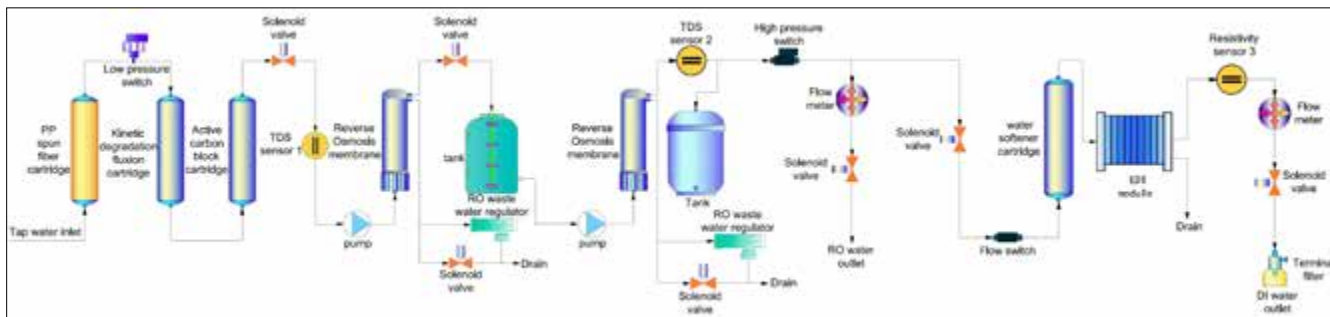


WPF-60D-EDI

WPF-45/60/90D-EDI, Deionized Water Systems, Tap Water Inlet

With 7.0 inch touch screen system, 3 way water quality sensor, 2 way flow sensor for quantified dispensing, 2 stage RO system and EDI module, WPF-45D/60D/90D-EDI series deionized water system is top choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 45 to 90 liters/hour. It can produce 2nd stage RO water and deionized water. The 2nd stage RO water's conductivity can stay 1-5 μ S/cm, and the deionized water's resistivity absolutely reaches to 10M Ω .cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:

Model	WPF-45D-EDI	WPF-60D-EDI	WPF-90D-EDI
Output -2 nd stage RO water*	45 liters/hour	60 liters/hour	90 liters/hour
EDI water quality			
Resistivity	>10 MΩ/cm		
TOC*	<30ppb		
Silicone rejection rate	>99.9%		
Bacteria	<0.1cfu/ml		
Particle (>0.2μm)	<1/ml		
RO water quality			
Conductivity – 1 st stage RO water	Feed water conductivity×5%*		
Conductivity – 2 nd stage RO water	1-5μs/cm*		
Feed water requirements	Tap water, temperature: 5-45°C, pressure:1.0-4.0Kg/cm²		
Dimension / Weight	L × W × H: 610×585×1580mm / Weight: about 70Kg		
Electrical Requirements	AC110-240V, 50/60Hz		
Power	480W		
Standard configuration	Main body (Including 1 set of cartridge)+built-in 20 liters PE tank and 20 liters pressure tank		

*The value will be influenced by temperature and feed water's quality.

LCD controlling system:

- Display system running status and real-time parameters.

Comprehensive monitoring system:

- 2 water quality sensor
- Timing and quality dispense.


Built-in water tanks and 1 pump:

- Built-in 12 liters airtight plastic pressure water tank, save more lab space.
- 1st pump, to achieve single stage RO system, easy to maintain.

Easy-to-replacing cartridge:

Independent pretreatment design, & integrated subsequent purification unit design, with fast inserted adapters, easy to replace.

WPE-RO-SERIES, Deionized Water System, Tap Water Inlet

WPE-RO-Series is simplified on the basis of Master series, which is the sole leading brand of Good Instrument in lab water area. It is the most representative products in lab water market.

Features and Advantages:

- LCD (resolution: 128×64, dimension: 66×33mm) controlling system, intuitively display the system running state and various parameters.
- 2 way online water quality sensor, detect the quality of RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life.
- Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending.
- Auto self-flushing of RO membrane function, extend RO membrane's life.
- Level II password, protect all the parameters setting, and prohibit any unauthorized setting change.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).
- System time setting (year/month/day/hour/minute)
- 3 kind of status lamp-running, alarm and full water, convenient to know system status.
- Built-in 12 liters pressure water tank, save laboratory space, easier for installation and maintenance.
- External water tanks is optional to meet different need and assure ample water-supply.
- Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard.
- 3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges.
- Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality.
- Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane.
- RO module with DOW's membrane, ensure long life, stable operation and high desalination rate.
- 4 in 1 ultrapure cartridge (can be divided to 4 independent cartridge) with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF.
- (0.45±0.1) μm double layer PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.



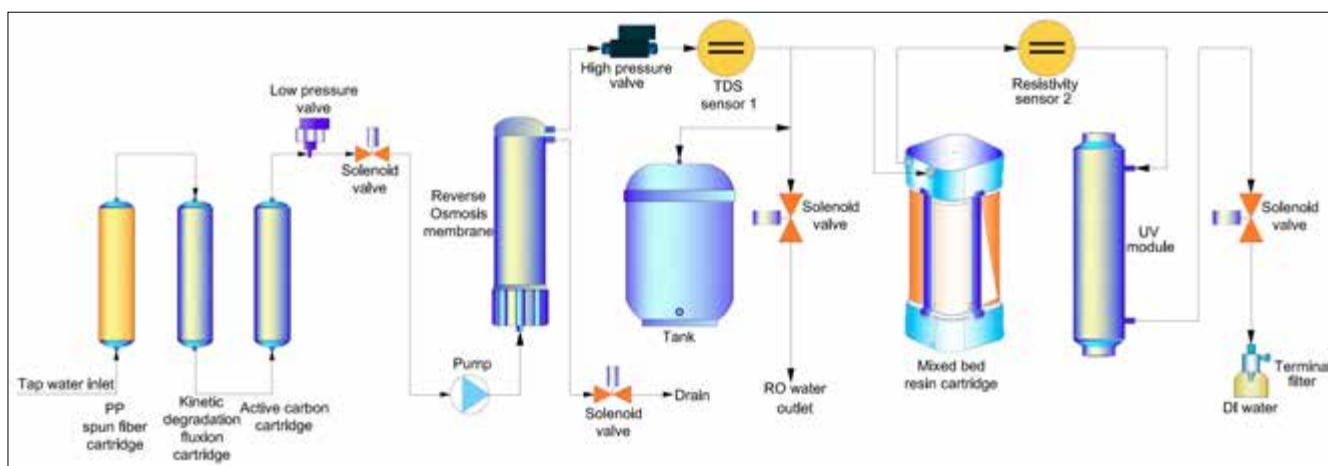
WPE-RO-DI-SERIES, Deionized Water System, Tap Water Inlet

With LCD controlling system, 2 way water quality sensor, timing and quality dispensing, single stage RO system, 1 pump, and built-in 12 liters tank, WPE-RO-DI series deionized water system is economic choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 15 to 30 liters/hour.

It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 96%, and the deionized water's resistivity is more than 16MΩ.cm, near to 18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow schematic:



Model	WPE-RO-DI-15	WPE-RO-DI-15-UT	WPE-RO-DI-30	WPE-RO-DI-30-UT
Output (25°C)*	15 liters/hour		30 liters/hour	
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, deionized water			
Deionized water quality				
Resistivity	16-18.2MΩ.cm			
Bacteria	N/A	<0.1cfu/ml	N/A	<1cfu/ml
Particle (>0.1µm)	N/A	<1/ml	N/A	<1/ml
RO water quality				
Ion rejection rate	96%-99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles & bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature: 5-45°C, pressure: 1.0-4.0Kg/cm²			
Dimension and weight	L×W×H: 340×500×560mm / Weight: about 18Kg			
Electrical Requirements	AC110-220V, 50/60H			
Power	72W			
Standard configuration	Main body (Including 1 set of cartridge)+built-in 12 liters pressure tank			

Remarks: The value will be influenced by temperature and feed water's quality.

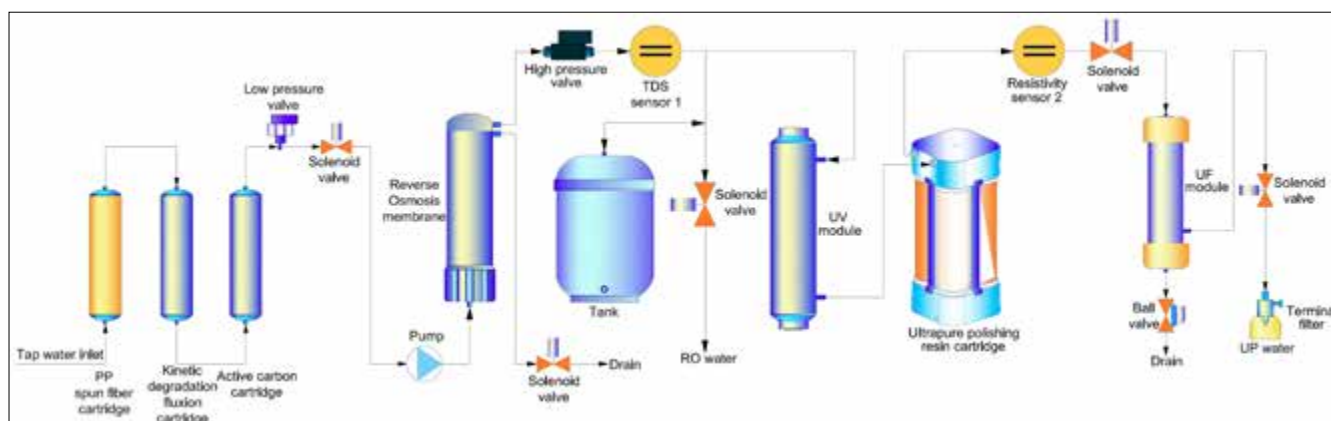


WPE-RO-UP-SERIES, Ultrapure water system, Tap Water Inlet

With LCD controlling system, 2 way water quality sensor, timing and quality dispensing, single stage RO system, 1 pump, & built-in 12 liters tank, WPE-RO-UP-Series ultrapure water system is economic choice of ultrapure water for high grade experiments.

With tap water inlet, its output ranges from 15 to 30 liters/hour. It can produce single stage RO water and ultrapure water. The single stage RO water's ion rejection rate is more than 96%, & the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade/standard of ASTM, CAP, CLSI, EP and USP.

Flow schematic:



Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	WPE-RO-UP-15	WPE-RO-UP-15-UF	WPE-RO-UP-15-UV	WPE-RO-UP-15-UVF
	WPE-RO-UP-30	WPE-RO-UP-30-UF	WPE-RO-UP-30-UV	WPE-RO-UP-30-UVF
Output (25°C)*	15 SERIES: 15 liters/hour, 30 SERIES: 30 liters/hour			
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, deionized water			
Ultrapure water quality				
Resistivity	18.2MΩ.cm			
TOC*	<10ppb		<3ppb	
Bacteria	<0.1cfu/ml			
Particle (>0.1μm)	<1/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
RNases	N/A	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
RO water quality				
Ion rejection rate	96%-99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles & bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature: 5-45°C, pressure: 1.0-4.0Kgf/cm²			
Dimension and weight	LxWxH: 340x500x560mm / Weight: about 18Kg			
Electrical Requirements	AC110-220V, 50/60H			
Power	72W			
Standard configuration	Main body (Including 1 set of cartridge)+built-in 12 liters pressure tank			

Remarks: The value will be influenced by temperature and feed water's quality.