Distilation & Water Purification

mrc

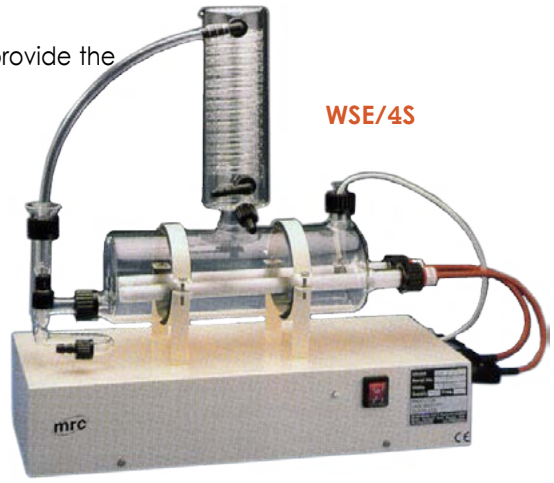
DISTILLATION Water

RS 25

WSC/AWC–Series, Water Stills

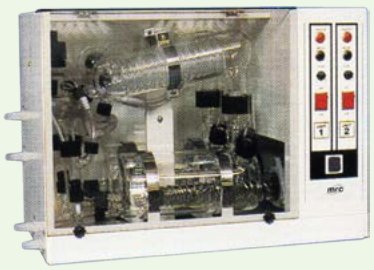
Economy Water Still

MRC economy water stills provide the same performance as 4 Liter cabinet stills.
The still features a high quality boiler & condenser distillation unit mounted on a stove enamelled metal chassis with all electric in a metal housing.
WSE/4S – Fitted with silica heater.

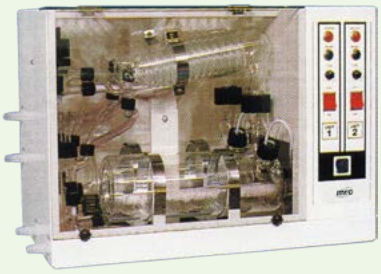


WSE/4S

4 Liters/Hour Cabinet Stills
WSC/4S – Fitted with silica heater

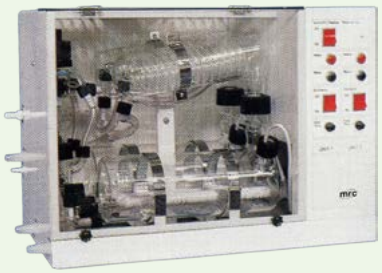


8 Liters/Hour Cabinet Stills
WSC/8S – Fitted with silica heater

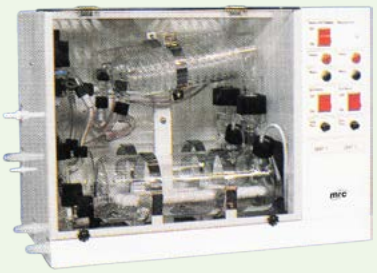


Double Distillation Cabinet Stills
WSC/4D – Output approximately 4 Liters per hour of high purity distillate. 4 silica heaters.

4 Liters/Hour Aquamatic Stills
AWC/4S – Fitted with silica heater



8 Liters/Hour Aquamatic Stills
AWC/8S – Fitted with silica heater



Double Distillation Aquamatic Stills
AWC/4D – Output approximately 4 Liters per hour of high purity distillate. Four silica heaters.

Output		4 Liter/hr	4 Liter/hr D.D	8 Liter/hr
Heaters		Silica	Silica	Silica
Wattage		2x1.5Kw	4x1.5Kw	4x1.5Kw
Power		220/240V	220/240V	220/240V
Fuse		13amps	2x13amps	2x13amps
Min. supply pressure		5psi	5psi	5psi
Dimension (mm)		H400xW590xD240	H400xW590xD340	H400xW590xD340
Incl. reservoir(mm)		H940xW590xD530	H940xW590xD530	H940xW590xD530
Net weight (kg)		12	20	20
Incl. reservoir (kg)		32	40	40
Output quality	pH	5.5–6.5	5.5–6.5	5.5–6.5
	Conductivity µs/cm	<2.5	<1.5	<2.5
	Resistivity megohm–cm	0.4	0.66	0.4
	Temperature	<35°C	<35°C	<35°C

WPL Series, Laboratory Water Purification Systems

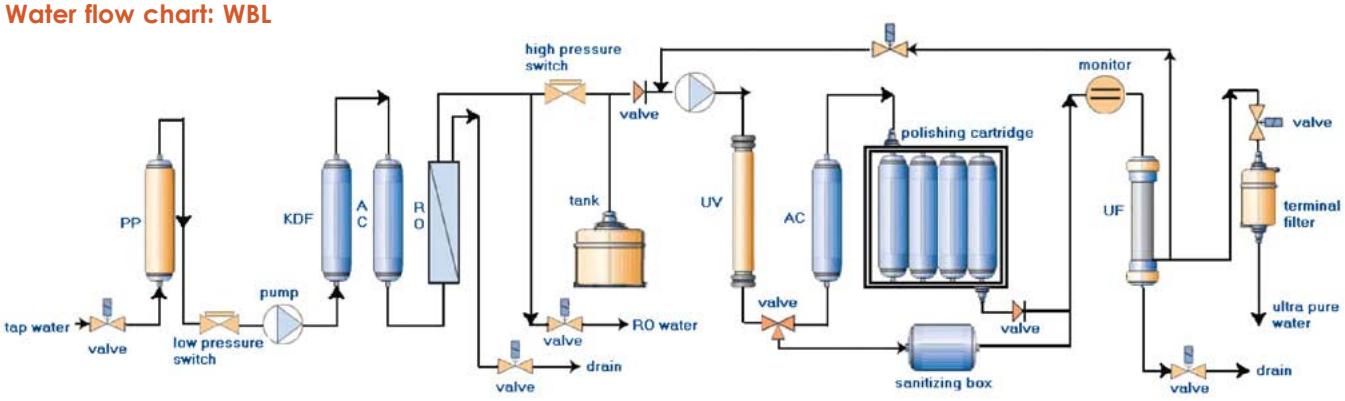
- WPL-RO Series deionized water system (Tap water inlet)
- WPL-RO-S Series ultra pure water system(Tap water inlet)
- WPL-RO-D Series ultra pure water system (DI water inlet).

LCD display function:

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-serting 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



WATER-PURIFICATION RO/DI/UP

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

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

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

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

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		• 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 filter×+1 Long-effective KDF filter×+1 Granular active carbon filter×1			
	RO unit	100 GPD RO membrane×1 (30L model: 2×100 GPD RO membrane)			
	Subsequent unit	Post active carbon filter×1 + Mixed resin cartridge×3 {30L model: Mixed resin cartridge×4} UT model: 254nm UV cartridge×1 + 0.2μm terminal filter×1			
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.

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 membrane×1 (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 filter×+1Mixed bed resin cartridge×+1Ultra pure polishing resin cartridge× +4 0.2μm 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)			

* **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

RO-UP Digital System

RO-DI Digital System

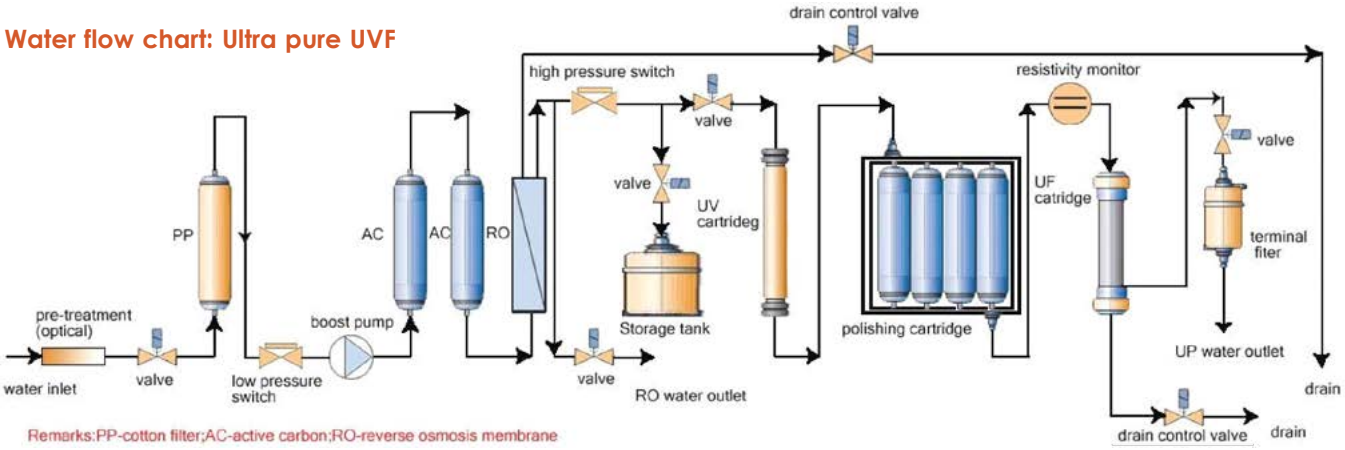
WPB Series, Water purification systems

- 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 System

Water flow chart: Ultra pure UVF



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

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°C,1.0-3.5Kg/cm²			
Output(25°C)		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)+3.2gallon 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		• Microanalysis • Environmental analysis • AA,ICP,IC • Buffer disposing • Pharmacy research • Medicine examining.	• Molecular biology PCR, gene research • Pharmacy research • Medicine examining, • Cell cultivating, • IVF etc.	• Micro organic analysis • Environmental analysis • HPLC,TOC, VOC, GC/MS • Pharmacy research • Medicine examining.	• 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 filter×1+Mixed bed resin cartridge×1+Ultra pure polishing resin cartridge×4+0.22μm terminal filer×1 UV model:+Double wavelength (185&254 nm) UV cartridge×1 UF model:+ 5000 Doulton UF cartridge×1 UVF model:+Double wavelength(185&254 nm) UV cartridge×1+5000 Doulton UF cartridge×1			
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		H×W×D:42×41×22cm / 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		• Microanalysis • Environmental analysis • AA,ICP,IC • Buffer disposing • Pharmacy research • Medicine examining.	• Molecular biology PCR, gene research • Pharmacy research • Medicine examining, • Cell cultivating, • IVF etc.	• Micro organic analysis • Environmental analysis • HPLC, TOC, VOC, GC/MS • Pharmacy research • Medicine examining.	• 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)×1+Special active carbon block filter×1+Special active carbon block filter×1			
	RO unit	100GPD RO membrane×1 (30L model: 2×100GPD RO membrane)			
	Subsequent unit	Ultra pure polishing resin cartridge× 0.22+4μm terminal filer×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			
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		H×W×D:42×41×22cm / 12-14kg			
Standard configuration		Main body(including:1 set cartridge)+ 3.2gallon 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, 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	2-6month *
171-2-000063		10"soften water resin filter	Resin : 2-3month *

WPG-100

WPG-100/200 Series, Water purification systems

WPG-200

Model		WPG-100	WPG-200
Flow procedure		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 and chemical analysis • Fine chemistry industry	
Pure water quality		Resistivity of deionized water:>10MΩ-cm, Desalination rate%:Nearly 100*, TDS (total dissolved solid) of RO water 5-10 ppm*	
Output		15 Liters per hour *	30 Liters per hour *
Water quality monitor/ Pure water outlet		TDS (total dissolved solid)test pen/ RO Water, Deionization water	
External dimension/Power/Weigh		W×D×H:41×32×42cm / 220V 50Hz / About 15Kg	
Inlet water requirement		Tap water :TDS<200ppm, 5-40°C, 1.0-3.5Kg/cm2	
Purification system	Pretreatment unit	10" PP spun fiber filter×1+10" granular active carbon filter×1+10" active carbon block filter×1	
	RO unit	100GPD RO membrane x 1	100GPD RO membrane x 1
	Subsequent unit	Mixed bed resin cartridge-D×2	Mixed bed resin cartridge-D×3
Standard configuration		Main body (including:1 set cartridge)	

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

Consumables & accessories:

Model	Specs	Replacement term
171-2-000070	10" PP spun fiber filter	About 4-6 months*
171-2-000071	10" granular active carbon filter	About 4-6 months*
171-2-000072	10" active carbon block filter	About 4-6 months*
171-2-000073	100GPD RO membrane	About 1-2 years
171-2-000074	Mixed bed resin cartridge-D	About 1000Liters

WPF-RO-45

WPF-RO-45, RO water system (Floor-stand, tap water inlet)

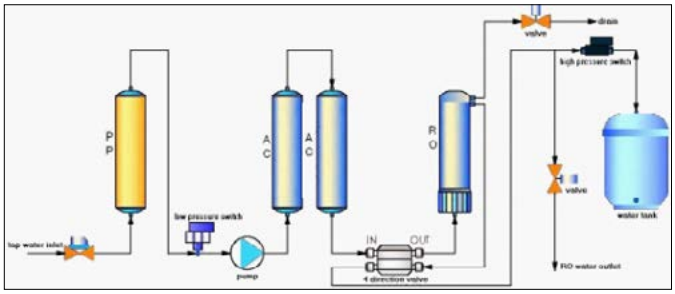
Application:

Feed water for ultrapure water system, glass washing, agricultural experiment, aquaculture, animal drinking water, thermostatic horizontal wet equipment, humidifier used water and autoclave etc.

Feed water

Flow schematic:

LV.1	20' spun fiber filter
LV.2	20' granular active carbon filter
LV.3	20' active carbon block filter
LV.4	300GPD RO menbrane
LV.5	10' accutive active carbon filter.



Performance Characteristics:

- Micro-computer control
- Large LED display, have the acousto-optic alarm function
- Built-in RO membrane antiscale timing automatic flush procedures
- Various specifications storage tanks can be selected to meet diffierent needs
- Stainless steel pensu chassis, eliminate corrosion and rust, ensure the body's clean, composite GLP norms
- Floor-stand design, bottom sets activities, make installation and moving more convenient
- All lines have NSF approval, new fast insert connector, replace and maitain the filter column conveniently.
- RO membrane, manufactured by DOW or CSM, to assure RO membrane's long time & high quality of pure water.

Standard congfiguation:

Host (1 set of filter cartridge) + 40 litres storage tank + Installation package.

Remarks:

- Feed water: TDS200ppm, 25°C, 50psi and 15% recyclable.
- GPD = gallon/day, 1galln = 3.8liter.
- The quality of feed water will influence the quality of pure water and filter life.

PF: Pretreatment filter;
AC: Active carbon;
RO: Reverse osmosis.

Model	WPF-RO-45
Flow rate (25°C)	45 litres/hour*
Instant flow rate	>1.5litres/min (need pressure storage tank)
RO water TDS (ppm)	5-10 (salt rejection ≥95%)*
Inorganic ion	>95%
Organic rejection	>99% (Molecular weight>100)
Particulates	>99%
Microbe	>99%
Bacteria	<1CFU/ml (0.2μm PES terminal)
Granular (>0.2μm)	<1/ml (0.2μm PES terminal filter)
Outlet	1 piece: RO water
Water quality monitoring	LCD resistivity + TDS test pen
Dimension	LXWXH: 65X47X110cm
Weight	About 70Kg
Power	100-250V, 50-60Hz/120W
Working condotions	
Environmental temp.	5°C ~ 35°C
Relative humidity	20% ~ 80%

WPF-90D, Deionized Water System, Tap Water Inlet

Detail Advantages:

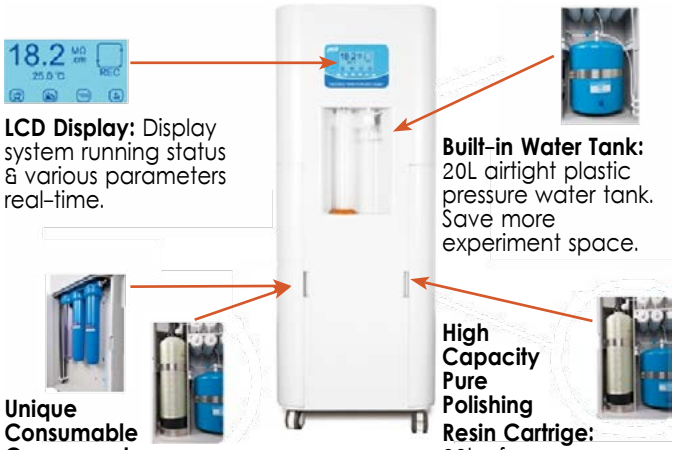
- Super-large LCD display, display the system running state and various parameters intuitively.
- Automatic micro-computer system, multi-menu operating, animation mode display.
- Fault automatically detect, automatic diagnosis.
- Water quality over standard alarm, no water alarm, consumables end alarm function.
- Consumables residual life shows, inform the user to replace consumables timely.
- 3 road on-line water quality monitoring, monitor the inlet, RO and Ultra pure water´s quality timely.
- Built-in system disinfection procedure, realize the disinfection of ultra pure water´s tube.
- Embedded sterilization program to achieve full pipeline disinfection.
- Unique design of consumables, easy for replacement.
- Built-in 20 liters water tank to save place, external tank is available demands.
- RS232 interface could record water quality automatically by attaching to external device. The traceability is ensured.
- Molding process, high-strength plastic shell, beautiful appearance.
- RO membrane of DOW, stable operation and high desalinization rate.
- Dow´s nuclar-grade resin.
- 0.2μm polyether alternative compound filter terminal disinfection filter.
- Fast-plug pipeline, hygienic and quick.
- Pipeline with NSF authorization to assure high quality ultra-pure water.

Features:

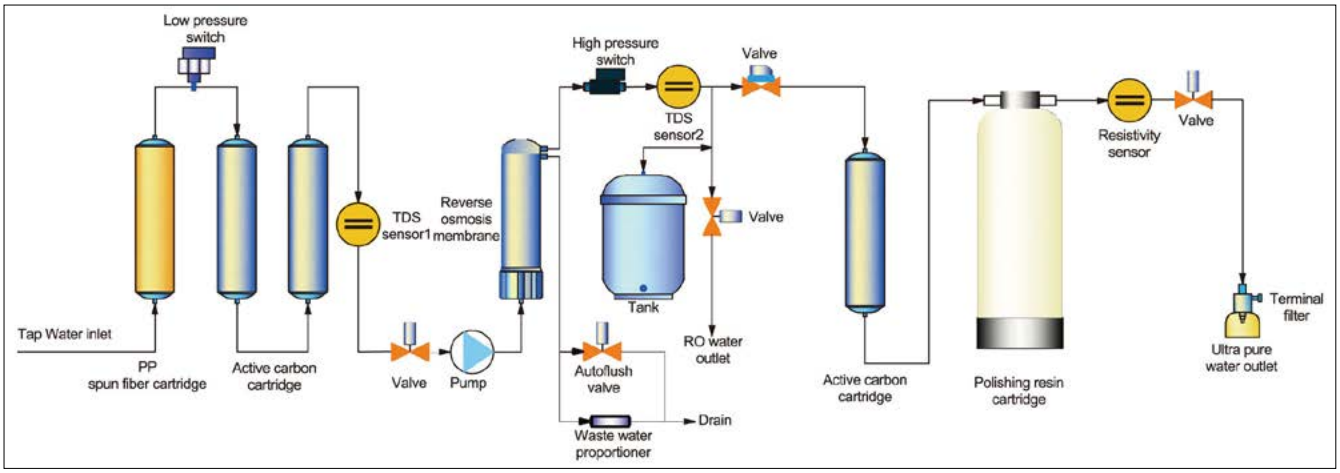
- The system requires no special installation, connect the system to your tap water supply, plug in the system and install the pack-it's ready to used.
- Easy to maintain and operate:
  -A unique and easy-to-install prefiltration pack unit
  -Self-maintenance of the reverse osmosis membrane.
- Save space, the tank is built-in the system.
- The system recirculates water when the system is not in use in order to maintain water quality.
- The graphic display clearly indicates all system parameters. From water quality to knowing when it is time to change the purification pack, you'll see at a glance what is need.
- For ease-of use,the main purification technologies are contained in an innovative all-in-one pack that mean you can change it in just a couple of minutes.
- Data storage and RS 232/USB communication port.

Application:
Biochemical analyser inlet, ultra water purification system inlet. Microbiological media preparation water, fine chemical, chemical & biochemical reagent configuration.
Buffer a configuration, photographic flush, ion chromatography, etc

Feed water: Potable tap water:
TDS<200ppm, 5-40°C,
1.0 ~ 3.5Kg/cm2.



Flow schematic:



Model	WPF-90D
Flow rate of DI water	90 liters/hour
Flow rate of RO water	≥1.5liters/min
Resistivity of DI water	>10 MΩ/cm
Conductivity of RO wate	< 0.05 x Source Water Conductivity
Granular(>0.2μm)	<1/ml
Microbe	<1cfu/ml
Feed water requirements	tap water, temperature: 5-45°C, pressure: 1.0-4.0Kgf/cm2
Dimension / Weight	L × W × H: 570×600×1500mm / Weight: about 60Kg
Working conditions	
Environmental temp.	5°C ~ 35°C
Relative humidity	20% ~ 80%
Electrical Requirements	AC110-220V,50/60Hz; 240W

MRC.12.16