

ABOUT US

Company Profile

Ultra-pure water preparation technology research, development, promotion and application of water treatment technology and related experimental study instrument equipment design, manufacture high-tech joint-stock enterprises, It has achieved the ISO9001: 2008 international quality management system certification and CE product quality certification. WP series of corporate R & D and production, the WPA, series of ultra-pure water system, the integration of cutting-edge water treatment technology and process control methods in one, the water is directly converted to ultra-pure water, water quality and in full compliance with ASTM to NCCLS Level I, GB6682-92 level I and GB/T11446-1997 level I requirements, water requirements, are widely applied to chemical, biological, pharmaceutical, medicine, microelectronics, semiconductors, and other fields.

Products Series

- WP series** ultra pure water system
- WPA** middle-flux series water purification system
- RO DI** series deionization pure water system
- Medical pure water system
- Industrial Water Purification System

Utilizing global high-quality parts

- RO: manufactured by TOW or FCS
- Pump: manufactured by Kflow
- Ultrapurification cartridge: manufactured by Rohm&hass or DOW
- Water quality monitor system: LCD with Resistivity and double TDS
- Case: manufactured by Kflow's Taiwan factory.
- UV/UF cartridge: manufactured by Pall or other famous corporation
- Terminal filtration: manufactured by Sartorius
- Other components: manufactured by Kflow

Incorporating cutting-edge technology

- RO series uses the reverse osmosis technology of NASA. Desalination rate $\geq 99\%$, eliminating virus rate $\geq 99.5\%$
 - Special circle-inside function to guarantee water quality. (Research series)
 - II mixed beds guarantees water quality and lengthen the life-span of ultrapurification cartridge.
 - Double wave length UV lamp efficiently decreases virus and TOC
 - Ultrapurification cartridge efficiently eliminates endotoxin
 - High flux terminal filtration with pre-filtration function
- Auto stop without water, auto stop when high pressure,
- RO membrane auto reverse wash





WP ultra pure water system flow chart

- WP Series ultra pure water system (Tap water for the source)
- WP Series ultra pure water system (Distilled water for the source)

No 1. WP series **ultra** water purification system(Inlet: tap water)

Specification		Standard	Eliminating endotoxin	Low TOC	Comprehensive
Model		WP-15L	WP-15L UF	WP-15L UV	WP-15L UVF
Flow procedure		PF+AC+RO+DI+DMF	PF+AC+RO+DI+UF+DMF	PF+AC+RO+UV+DI+DMF	PF+AC+RO+UV+DI+UF+DMF
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.
Filtration System	LV. 1--4	LV-1 Outside filter (optional), LV-2 Special PP filter , LV-3, Special carbon filter , LV-4 Intensive carbon filter			
	LV. 5	100GPD RO membrane			
	LV. 6	—		Double wavelength UV cartridge	
	LV. 7	Intensive Carbon Filter			
	LV. 8	Ultra pure deionized columns X4			
	LV. 9	—	5000 Doulton UF eliminating endotoxin cartridge	—	5000 Doulton UF eliminating endotoxin cartridge
	LV. 10	Sartorius 0.22μm terminal filter with pretreatment			
Water Quality	Desalination rate/ %	Nearly 100%			
	Resistivity	18.2 MΩ-cm @25°C			
	TOC ppb	<10ppb		<3ppb	
	Endotoxin Eu/ml	—	<0.001	—	<0.001
	Virus cfu/ml	< 1cfu/ml			
Water outlet	2: 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				
Digital water monitor	LCD with back light				
Inlet water requirement	Tap water: TDS<200, 5-40°C, 1.0~3.5Kg/cm ²				
Output (25°C)	15 L/H*				
Instantaneous output L/min	1.5 L/min (with pressure tank) (Less output with UF/UV cartridge)				
External dimension / Weight	H×W×D: 42×41×22 cm/ 12-14 kg				
Standard configuration	Main body+ purifying cartridge+3.2gallon tank +Terminal filter	Main body+purifying Cartridge+3.2gallon tank+UF cartridge+Terminal filter	Main body+purifying Cartridge+3.2gallon + UV cartridge+Terminal filter	Main body+purifying Cartridge+3.2gallon + UV/UF +Terminal filter	

* 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.

No. 2 WP-D series ultra water purification system(Inlet: distilled/deionization water)

Specification	Standard	Eliminating endotoxin	Low TOC	Comprehensive
Model	WP-D-15L	WP-D-15L UF	WP-D-15L UV	WP-D-15L UVF
Flow procedure	AC +DI +DMF	AC +DI+UF+DMF	AC +UV+DI+DMF	AC +UV+DI+UF+DMF
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, deionization water			
Filtration System	LV. 1	-----		Double wavelength UV cartridge
	LV. 2	Intensive carbon filter		
	LV. 3	Ultra pure cartridge with 4×nuclear mixed bed A		
	LV. 4	-----	5000 Doulton UF eliminating endotoxin cartridge	5000 Doulton UF eliminating endotoxin cartridge
	LV. 5	Sartorius 0.22µm terminal filter with pretreatment		
Water Quality	Resistivity MΩ-cm	18.2 @25°C		
	TOC ppb	3~20		2~10
	Endotoxin Eu/ml	—	<0.001	<0.001
	Virus cfu/ml	<1cfu/ml		
Water outlet	2: RO water ; Ultra pure water			
Control and display system	Automatic electronic pressure sensor controlling, recirculation function; LCD with back light			
Output (25°C)	1.0—1.3 L/min (with pressure tank) (Less output with UF/UV cartridge)			
External dimension / Weight	H×W×D: 42×41×22 cm/ 12-14 kg			
Standard configuration	Main body+ purifing Cartridge+Terminal filter	Main body+purifing Cartridge+UF cartridge +Terminal filter	Main body+purifing Cartridge+UV cartridge +Terminal filter	Main body+purifing Cartridge+UF/UV Cartridge+Terminal filter

* 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.

Rohmhass nuclear mixed bed A×2 can be replaced by PALL cartridge and inquiring for price.

AC: Active carbon DI: Ion exchange UV: Ultraviolet (Double wavelength: 254、185nm) UF: Ultrafiltration DMF: Double membrane filtration

No 3.RO DI series water purification system(Inlet: tap water, Plastic casing)

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

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

Specification		Reverse osmosis water system		Reverse osmosis deionization water system	
Model		RO-15L	RO-30L	RO DI-15L	RO DI-30L
Flow procedure		PF+AC+RO+AC	PF+AC+RO+AC	PF+AC+RO+DI	PF+AC+RO+DI
Application		<ul style="list-style-type: none"> ● ware washing ● Agricultural expe ● General biological expe ●Aquatic products feeding ● Inlet water for Ultra pure water machine ● Inler water for sterilizer/ T&H chamber 		<ul style="list-style-type: none"> ●Buffer disposing ●Aseptic drinking water ●Physical and chemical analysis ●Fine chemistry industry ● Inlet water for Ultra pure water machine ● GC/HPLC 	
Filtration System	LV. 1	Outside filter (optional)	Outside 10` PP filter	Outside filter (optional)	Outside 10` PP filter
	LV. 2	Special PP filter	Special carbon filter	Special PP filter	Special carbon filter
	LV. 3	Special carbon filter			
	LV. 4	Special carbon filter			
	LV. 5	100GPD RO membrane	2×100GPD RO membrane	100 GDP RO membrane	2×100GPD RO membrane
	LV. 6	Intensive carbon filter		Mixed bed A×2	Mixed bed (A+B)×2 [▲]
Water Quality	Desalination rate %	94-99 *		Nearly 100*	
	TDS ppm	5-10		RO water: 5-10	
	Resistivity MΩ-cm	—		13-16	
	Conductivity Us/cm	—		0.077-0.063	
Water outlet		1: RO water		2: RO water; Deionization 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			
Digital water monitor		Optional TDS test pen		Double passage TDS monitor/LCD Resistivity monitot	
Inlet water requierment		Tap water :TDS<200, 5-40°C, 1.0~3.5Kg/cm ²			
Output (25°C)		15L/H	30L/H	15L/H	30L/H
Instantaneous output L/min		1.5 L/min (with pressure tank)			
External dimension / Weight		H×W×D:42×41×22cm / 12-14kg			
Standard configuration		Main body+1set purifying cartridge+ 3.2gallon tank	Main body+1set purifying cartridge+ 11gallon tank	Main body+1set purifying cartridge+ 3.2gallon tank	Main body+1set purifying cartridge+ 11gallon tank
Remark		If need installation the display of resistivity need add RMB2000			

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

▲ Big volume Mixed Bed for option

PF: Retreating AC: Active carbon RO: Reverse osmosis DI: Ion exchange UV: Ultraviolet (Double wavelength: 254、185nm) UF: Ultrafiltration

DMF: Double membrane filtration Specification can be changed without any prior notice for development



RO DI series pure water system(Tap water inlet.high quality iron casing)



Model	RO DI -15L	RO DI-30L
Flow procedure	PF+AC+RO+AC+DI	
Application	<ul style="list-style-type: none"> • Ware washing • Agricultural expe • General biological expe •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 ◦ Can completely instead the traditional single steam distilled three times distilled water machine 	
Pure water quality	Desalination rate%:Nearly 100* TDS:RO water 5-10 ppm* Resistivity:5.0-10MΩ-cm, Conductivity: 0.2-0.1μs/cm	
Output	15 Liters per hour *	30 Liters per hour *
Water quality monitor / Pure water outlet	TDS(total dissolved solid)test pen/ 2:RO water, Deionization water	
External dimension / Weight	W×D×H:37×26×45cm / 220V/50HZ	
Inlet water requirement	Tap water :TDS<200ppm,5-40℃, 1.0~3.5Kg/cm ²	
Filtration system	Pretreatment unit	10" PP spun fiber filter×1+10" active carbon block filter×2
	RO membrane unit	100GPD RO membrane
	Back purification unit	10" granular active carbon filter+ 10" Mixed bed resin cartridge×2
List price(RMB)	3980	5680
Remark	If need installation the display of resistivity need add RMB2000	

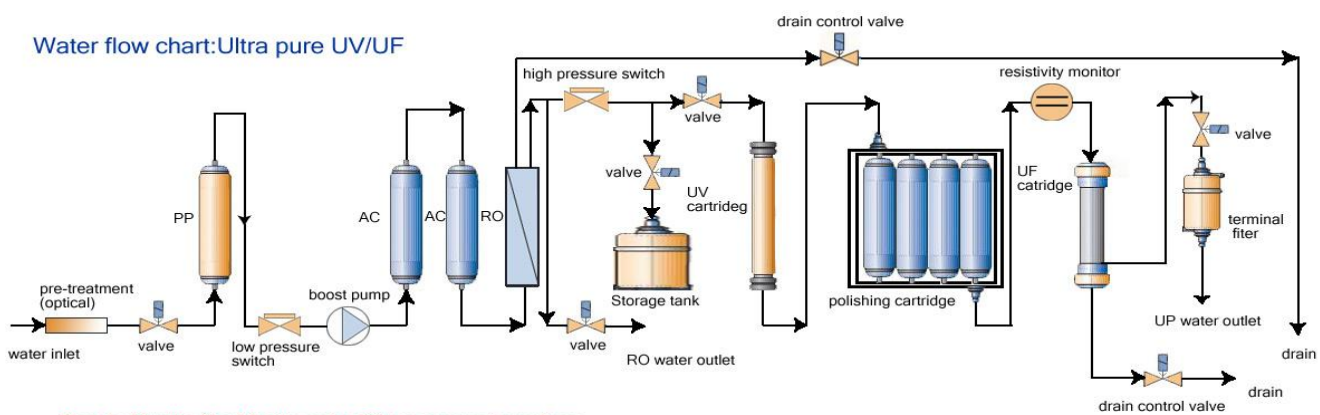
* Inlet water :TDS200ppm, 25℃, 50psi and 15% recovery rate.

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

***The quality of inlet water will effect outlet's and cartridge's life. PF:Pretreating AC:Active carbon RO:Reverse osmosis DI:Ion exchange.

No 4. Middle-flux series water purification system(Inlet: tap water)

- Automatic microcomputer control system, Multi-level menu operation
- Large back lit LCD screen, resolution: 240 * 128, the entire animated real-time mode of operation
- Online 3-way water quality monitoring, real-time monitoring of water, RO water and ultrapure water quality
- Automatic RO membrane antiscaling procedure to extend the life of the RO membrane
- Anhydrous, water full alarm, the source water, RO water, ultrapure water(parameters can be arbitrarily set) exceeded the alarm, supplies end-of-life alarm
- Factory, the customer two password, the system settings are password protected to prevent the unauthorized changes to the
- All consumable life can be set to display supplies and the remaining time, and supplies are due for replacement reminder, to avoid the deterioration of water quality
- Timing qualitative water feature (Timer 1-99min; qualitative :0.1-18.2 MΩ-cm)
- Floor design, the bottom has activities, fixed feet, the installation and move will more convenient,



Specification/Model	RO & deionization water purification system		Ultra pure water purification system			
			Standard	Eliminating endotoxin	Low TOC	Comprehensive
		RO DI 400	WPA 400	WPA 400 UF	WPA 400 UV	WPA 400 UVF
		RO DI 600	WPA 600	WPA 600 UF	WPA 600 UV	WPA 600 UVF
	RO DI800	WPA 800	WPA 800 UF	WPA 800 UV	WPA 800 UVF	
Flow procedure	PF+AC+RO+DI		PF+AC+RO+DI+DI+DMF	PF+AC+RO+UV+DI+DMF	PF+AC+RO+AC+UV+DI+UF+DMF	
Application	<ul style="list-style-type: none"> •Buffer disposing •Aseptic drinking water •Physical and chemical analysis chemistry industry • Inlet water for Ultra pure water machine • GC/HPLC 	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 requirement	Tap water: TDS<200, 5-40℃, 1.0~3.5Kg/cm ²					
Filtration System	pretreatment	20" 5μm PP filter , 20" particle carbon filter , 20" accurate carbon filter				
	Reverse osmosis	4×100GPD; 3×200GPD; 5×200GPD RO membrane				
	Next purification unit	10"intensive carbon filter			Double wave length UV cartridge	
		20" mixed bed cartridge×3	20" nuclear mixed bed A×3		10"intensive carbon filter	
		—	Sartorius terminal filer with pretreatment	5000 Doulton UF cartridge	20" nuclear mixed bed A×3	
		—	—	Sartorius terminal filer with pretreatment	5000 Doulton UF cartridge	—
—	—	—	—	Sartorius terminal filer with pretreatment		
Water Quality	Desalination rate/ %	96-98% , TDS<10ppm *				
	Resistivity MΩ-cm	13-16	17.0-18.2			
Water outlet	2: ROwater ; deionization water or ultra pure water					
Control system	Micro-computer controller, RO membrane auto flushing, automatic stop without water, automatic stop when water full, automatic cutting off water when pump stopping					
Monitor system	LCD with resistivity and double TDS					
Output (25℃)	400 series: 63L/H; 600 series : 94L/H; 800 series : 125L/H					
Instantaneous output L/min	1.5L/min					
External dimension / Weight	H×W×D: 99×65×36 cm / 55-75kg					
Standard configuration	Main body(1 set cartridge)+ 20 gallon tank					

* Inlet water :TDS200ppm, 25℃, 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.

--- Consumables & accessories of WP series , RO DI series water purification system

Specs	Replacement term	Specs	Replacement term	
Special PP filter	4-6 months*	TDS test pen	—	
Special carbon filter	4-6months*	UF eliminating endotoxin cartridge	—	
Intensive carbon filter	1 year*	Double wave length UV cartridge	Lamp :about 8000h	
100 GPD RO membrane	3 years	Double wave lamp	About 8000h	
Mixed bed A	Around 1000L	Outside pre-filter	Transparent Outside 10`` PP filter	—
Mixed bed B	Around 500L		10`` PP filter core	2-3month *
Nuclear mixed bed A	Around 3000L		Two unite as one 10``PP+deionization filter	Resin : 2-3month *
PALL cartridge	—		Deionization resin	—
Terminal filter	—		Two unite as one 10``PP+KDF filter	KDF filter: 2 years
3.2 gallon tank	—		KDF filter	2 years
11 gallon tank	—	Big volume mixed bed	Pay respects to the following form	
20 gallon tank	—	Sterilizer box optional for Research series	—	

Remarks: *Replace term of Plus model will be decreased;

**When inlet water's TDS>200, Replace term of filter will be suggested to decrease, or outside pre-filter is added. Or water quality and life of ultra pure cartridge will be affected.

*** Two unite as one 10``PP+KDF filter will guarantee that the special carbon filter will not be replaced.

Consumables & accessories of *middle-flux* series water purification system

Specs	Replacement term	Specs	Replacement term
20" 5µm PP filter	3-4 month *	Terminal filter	—
20" particle/accurate carbon filter	3-4 month *	11 gallon tank	—
10"intensive carbon filter	3-4 month *	20 gallon tank	—
100GPD RO membrane	3 years *	UF eliminating endotoxin cartridge -TJ	—
20" mixed bed cartridge	Around 5000L	Double wave length UV cartridge	Lamp:about 8000h
20" nuclear mixed bed A	Around 5000L	Double wave lamp	About 8000h
25L mixed bed cartridge	40-50 ton		—
25L nuclear mixed bed cartridge	40-50 ton		

Remarks :*When inlet water's TDS>200, Replace term of filter will be suggested to decrease, or outside pre-filter is added. Or water quality and life of ultra pure cartridge will be affected.

Remarks:*(no less than 17,95% time)**(no less than 13,95% time)