Products

Sciencetool	series water purification system
Kflow	series water purification system
Middle-flux	series water purification system
DW	series water purification system

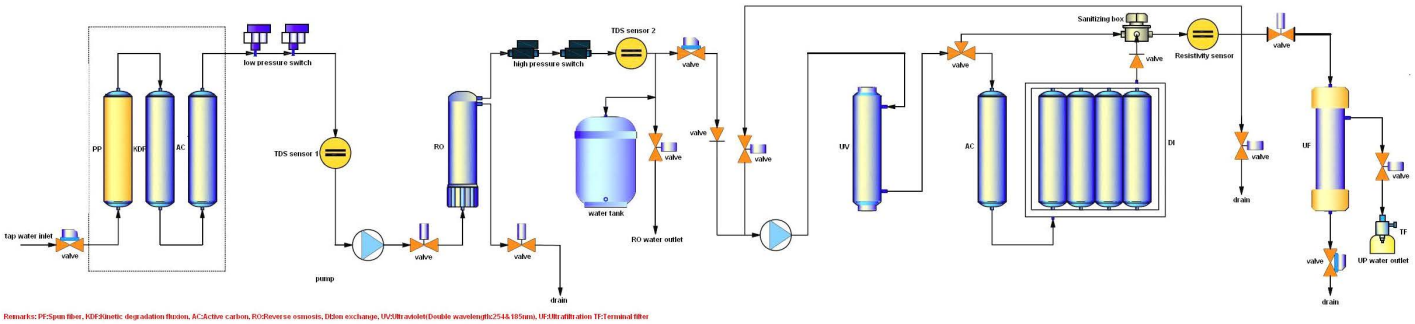
Utilizing global high-quality parts

- 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 lengthen 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

Water flow chart: Master-S UVF



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

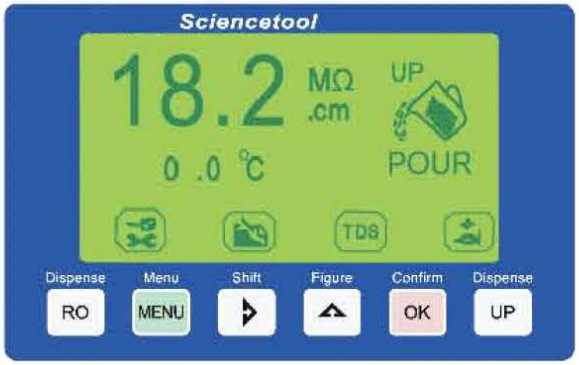
Sciencetool series water purification system

- **Master-Q** series deionized water system (Tap water inlet)
- **Master-S** series ultra pure water system (Tap water inlet)
- **Master-D** series ultra pure water system (DI water inlet)

Master series features and advantage

Control System	Automatic microcomputer controlling, multi-menu operating.
Display System	Large apheliotropic LCD display, resolution:240*128,real-time cartoon type working mode display.
Quality Monitor	3-way online sensor, detecting the quality of inlet,RO outlet and ultrapure water respectively
Visual and Auditive Alarm	Multiple alarm-including inlet water over standard,no water,full water,outlet water over standard,Consumables' life-span ends, malfunction auto-detect, guaranteeing safety
Recirculation System	Manual and auto in one body, freely switchable, ultrapure 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.
Consumable-replacing remind	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 furthest.
"on-off duty" mode	On duty and off duty mode to keep abundance of RO water and realize rational working
Water tank	Various kind of tanks to meet different needs and assure ample water-supply
Machine case	Human engineering design, streamline case
Pipeline and adaptor	Pipeline with NSF authorization to assure high quality ultrapure water; new easy-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 furthest
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 and 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

LCD display function



Master-Q series deionized pure water system (Tap water inlet)

Model		Reverse osmosis deionized water purification system			
		Master-Q	**Master-Q UT**	**Master-Q plus**	**Master-Q plus UT**
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 expe• General biological expe •Aquatic products feeding• Inlet water for Ultra pure water machine• Inler 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:13-17.5 MΩ-cm, RO water(TDS):5-10ppm*, Heavy metal<0.1ppb, TOC<30 ppb. Bacteria <1 CFU/ml(Only for UT model), Particle(>0.22μm)<1/ml(Only for UT model)			
Technical spec	Output(25℃)	15 Liters/hour* (plus model: 30 Liters/hour*)			
	Moment output	1.5 Liters/hour (with pressure tank)			
	Pure water outlet	2-RO water; High 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 remind			
	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		Tap water; inlet TDS<200 ppm,1-40℃,1.0-3.5 kg/cm^2 (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 (Plus model:2×100 GPD RO membrane)			
	Subsequent unit	Post active carbon filter×1 + Mixed bed resin cartridge×3{Plus model: Mixed bed 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℃, 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:Spun fiber, KDF:Kinetic degradation fluxion, AC:Active carbon, RO:Reverse osmosis, DI:Ion exchange, UV:Ultraviolet, TF: Terminal filter

Master-S series ultra pure water system (Tap water inlet)					
Model		Standard	Eliminating endotoxin	Low TOC	Comprehensive
		Master-S	**Master-S UF**	**Master-S UV**	**Master-S UVF**
		Master-S plus	**Master-S plus UF**	**Master-S plus UV**	**Master-S plus 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 analyse Amino acid analyse Reagent preparation	Molecular biology Cell and tissue cultivation Life science,IVF electrophoresis	HPLC,IC,ICP-MS TOC and 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℃			
	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 / m l			
	TDS (RO water)	5-10 ppm*			
Technical spec	Output(25℃)	15 Liters/hour* (plus model: 30 Liters/hour*)			
	Moment output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)			
	Pure water outlet	2-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 remind			
	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		Tap water; inlet TDS<200 ppm,1-40℃,1.0-3.5 kg/cm^2 (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 (Plus model:10" PP filter×1+10"KDF filter×1+10"granular active carbon filter×1)			
	RO unit	100 GPD RO membrane×1 (Plus model:2×100 GPD RO membrane)			
	Subsequent unit	Post active carbon filter×1 +Ultra pure polishing resin cartridge× 4+ 0.2μm terminal filter×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			
Standard configuration		**Main body(including:1 set cartridge)+4gallon 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.

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

Master-D series ultra pure water system (pure water inlet)					
Model		Standard	Eliminating endotoxin	Low TOC	Comprehensive
		Master-D	**Master-D UF**	**Master-D UV**	**Master-D 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 analyse Amino acid analyse Reagent preparation	Molecular biology Cell and tissue cultivation Life science,IVF electrophoresis	HPLC,IC,ICP-MS TOC and 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℃;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 / m l			
Technical spec	Output	1.5 Liters/min(Less output with UF/UV cartridge)			
	Pure water outlet	2- High pure 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 remind			
	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℃,1atm*			
Purification system		Post active carbon filter×1+Mixed bed resin cartridge×1+Ultra pure polishing resin cartridge× 4+ 0.2μm terminal filter×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			
Standard configuration		**Main body(including:1 set cartridge)**			

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

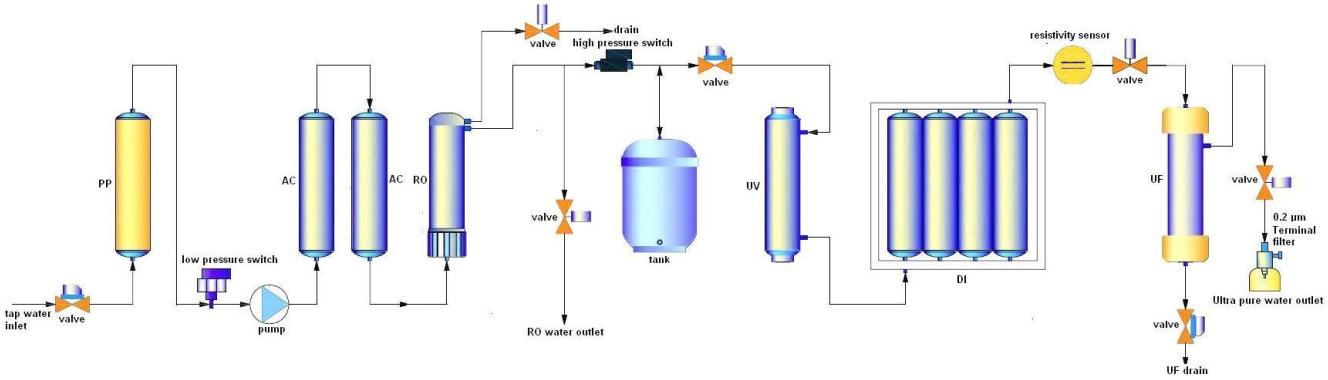
AC:Active carbon DI:Ion exchange UV:Ultraviolet(Double wavelength:254&185nm) UF:Ultrafiltration TF: Terminal filter

Consumables & accessories of master series			
Specs	**Replacement term**	**Specs**	**Replacement term**
5μm spun fiber filter	About 2-6months	Mixed bed resin cartridge	About 1000 liters water
Long-effective KDF filter	About 1 year	Ultra pure polishing resin cartridge	About 1000 liters water
Granular active carbon filter	About 6months	5000 Doulton UF cartridge	-
Post active carbon filter	About 9000 liters water	0.2μm terminal filter	About 1 year
10" PP filter	About 2-6months	254nm UV cartridge	-
10"KDF filter	About 1 year	254 nm lamp	About 9000 hours
10"granular active carbon filter	About 6months	Double wavelength(185&254 nm)UV cartridge	-
100 GPD RO membrane	About 1-2 years	185&254 nm UV lamp	About 9000 hours

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

**When inlet water's TDS>200ppm, 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.

Water flow chart: Ultra pure UVF



Kflow series water purification system

- **RO** series reverse osmosis pure water system (Tap water inlet)
- **RO DI** series deionized water system (Tap water inlet)
- **Ultra** series ultra pure water system (Tap water inlet)
- **Research** series ultra pure water system (DI water inlet)

RO / RO DI series pure water system(Tap water inlet)					
Specification		RO system		RO deionization system	
Model		**RO lab**	**RO lab plus**	**RO DI/RO DI digital**	**RO DI plus/ RO DI digital plus**
Flow procedure		PF+AC+RO+AC	PF+AC+RO+AC	PF+AC+RO+DI	PF+AC+RO+DI
Application		• 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 • 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	100 GDP 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	-		10-16MΩ-cm	
	Conductivity	-		0.1-0.063μs/cm	
Pure 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.			
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/cm^2			
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)+3.2gallon tank**			

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

RO Lab / RO Lab plus

RO DI / RO DI plus

RO DI digital/RO DI digital plus

Research series ultra pure water system (DI water inlet)

Ultra series pure water system (Tap water inlet)					
Specification		Standard	Eliminating endotoxin	Low TOC	Comprehensive
Model		**Ultra pure**	**Ultra pure UF**	**Ultra pure UV**	**Ultra pure UVF**
		Ultra pure plus	**Ultra pure plus UF**	**Ultra pure plus UV**	**Ultra pure plus UVF**
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 ("plus" 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 ("plus" model:2×100GPD RO membrane)			
	Subsequent unit	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℃			
	Heavy metal	<0.1ppb			
	TOC	<10 ppb		<5 ppb	
	Endotoxin	-	<0.001 Eu/ml	-	<0.001 Eu/ml
	particle(>0.22μm)	<1/ml			
	Bacteria	< 1cfu/ml			
Pure 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.			
Water quality monitor		TDS test pen + LCD online resistivity monitor			
Inlet water requirement		Tap water:TDS<200ppm,5-40℃,1.0～3.5Kg/cm^2			
Output(25℃)		15 liters/hour* ("plus" model: 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: 42×41×22 cm/ 12-14 kg			
Standard configuration		**Main body(including:1 set cartridge)+3.2gallon 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.
PF:Spun fiber AC:Active carbon RO:Reverse osmosis DI:Ion exchange UV:Ultraviolet(Double wavelength:254&185nm)
UF:Ultrafiltration TF: Terminal filter

Specification		Standard	Eliminating endotoxin	Low TOC	Comprehensive
Model		**Research**	**Research UF**	**Research UV**	**Research UVF**
Flow procedure		AC+DI +TF	AC+DI+UF+TF	AC+UV+DI+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℃			
	Heavy metal	<0.1ppb			
	TOC	<10ppb		<5 ppb	
	Endotoxin	-	<0.0001Eu/ml	-	<0.0001Eu/ml
	particle(>0.22μm)	<1/ml			
	Bacteria	<1cfu/ml			
Pure water outlet		2: DI water ;Ultra pure water			
Control and display system		Automatic electronic pressure sensor controlling, recirculation function; LCD online resistivity monitor			
Output(25℃)		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: 42×41×22 cm/ 12-14 kg			
Standard configuration		**Main body(including:1 set cartridge)**			

*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.

AC:Active carbon DI:Ion exchange UV:Ultraviolet(Double wavelength:254&185nm) UF:Ultrafiltration TF:Terminal filter

Consumables & accessories of Kflow series

Specs	Replacement term	Specs		Replacement term
Special spun fiber filter	2-6 months*	TDS test pen		-
Special active carbon block filter	4-6months*	5000 Doulton UF cartridge		-
post active carbon filter	1 year*	Double(185&254nm) wave length UV cartridge		Lamp:about 9000h
100 GPD RO membrane	1-2 years	Double (185&254nm)wave lamp		About 9000h
Mixed bed resin cartridge	Around 1000L	pre-filter	10"PP+resin soften water filter	-
Ultra pure polishing resin cartridge	Around 1000L		10"PP filter	2-6month *
0.22μm terminal filter	-		10"soften water resin filter	Resin : 2-3month *

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

**When inlet water's TDS>200ppm, 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.

Middle-flux series water purification system(tap water inlet)

In the base of advanced technology and excellent quality of the small-flux ultra pure water machine, the middle-flux series have optimized the design and added the micro-computer controller and double passage TDS monitor. Being suitable for automatic biochemistry analyzer, center laboratory, small scale industry produce and water providing center etc.

Specification		RO & deionization water purification system	Ultra pure water purification system			
			Standard	Eliminating endotoxin	Low TOC	Comprehensive
Model		**RO DI 400/600/800**	**UP400/600/800**	**UP400/600/800 UF**	**UP400/600/800UV**	**UP400/600/800 UVF**
Flow procedure		PF+AC+RO+AC+DI+TF	PF+AC+RO+AC+DI+TF	PF+AC+RO+AC+DI+UF+TF	PF+AC+RO+UV+AC+DI+TF	PF+AC+RO+UV+AC+DI+UF+TF
Application		Buffer disposing Aseptic drinking water Physical and chemical analysis Fine 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 Environmentalanalysis, Pharmacy research Medicine examining Cell cultivating IVF etc.
Inlet water requirement		Tap water：TDS<200ppm,5-40℃,1.0-3.5Kg/cm²				
Purification system	Pretreatment unit	Pre-filter (optional)+ 20" 5μm spun fiber filter×1+20" granular active carbon filter×1+20" active carbon block filter				
	RO unit	(400 series:4×100; 600 series :6×100; 800 series: 8×100 GPD) RO membrane				
	Subsequent unit	RO DI series: 10"granular active carbon filter×1+12L mixed bed resin cartridge×1 UP series: 10"granular active carbon filter×1+12L ultra pure polishing resin cartridge×1+ultra pure polishing resin cartridge×2+0.2μm 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(RO DI series:>10 MΩ-cm); Heavy metal:<0.1ppb; TOC<10ppb(UV model); Endotoxin <0.001Eu/ml(UF model); particle(>0.22μm)<1/ml; Bacteria <1cfu/ml				
Pure water outlet		2个: RO水 ； 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 online resistivity monitor				
Output(25℃)		400 series:63 liters/hour; 600 series : 94 liters/hour ; 800 series:125liters/hour*				
Instantaneous output L/min		1.5L/min				
Power		400 and 600 series :240W; 800series :320W				
External dimension / Weight		H×W×D: 110×65×47 cm / 70kg				
Standard configuration		**Main body(including:1 set cartridge)+11gallon 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.

PF:Spun fiber AC:Active carbon RO:Reverse osmosis DI:Ion exchange UV:Ultraviolet(Double wavelength:254&185nm)

UF:Ultrafiltration TF: Terminal filter

Consumables & accessories of middle-flux series			
Specs	**Replacement term**	**Specs**	**Replacement term**
20" 5μm spun fiber filter	2-4 month *	Ultra pure polishing resin cartridge	Around1000L
20" granular active carbon filter	2-4 month *	0.2μm terminal filter	-
20" active carbon block filter	2-4 month *	11 gallon tank	-
10"granular active carbon filter	2-4 month *	20 gallon tank	-
100GPD RO membrane	1-2 years *	5000 Doulton UF cartridge	-
12L mixed bed resin cartridge	Around 20000L	Double wave length UV cartridge	Lamp:about 9000h
12L ultra pure polishing resin cartridge	Around 20000L	Double wave lamp	About 9000h

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.

DW series water purification system(Tap water inlet)

Model		DW 100	DW 200
Flow procedure		PF+AC+RO+DI	
Application		• 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	
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/ 2:RO water, Deionization water	
External dimension/Power/ Weight		W×D×H:41×32×42cm / 220V.50Hz / About 15Kg	
Inlet water requirement		Tap water :TDS<200ppm,5-40℃,1.0-3.5Kg/cm^2	
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×1	100GPD RO membrane×2
	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℃, 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:Spun fiber AC:Active carbon RO:Reverse osmosis DI:Ion exchange.

DW series Consumables & accessories

Specs	Replacement term	Specs	Replacement term
10" PP spun fiber filter	About 4-6 months*	100GPD RO membrane	About 1-2 years
10" granular active carbon filter	About 4-6 months*	Mixed bed resin cartridge-D	About 1000liters
10" active carbon block filter	About 4-6 months*		

CAP & NCCLS pure water standard

	Resistivity 25℃ MΩ*cm	Sio_2 Mg/L.max	Heavy metal Mg/L.max	Km_nO_4 disinfection .min	Na Mg/L.max	NH_4^+ Mg/L.max	Microorganism	PH
CAP- Ⅰ	≥10	0.01	0.01	60	0.1	0.1	Few	6.0-7.0
CAP- Ⅱ	0.5	0.01	0.01	60	0.01	0.01	Few	6.0-7.0
CAP-Ⅲ	0.2	0.01	0.01	60	0.1	0.1	Few	6.0-7.0
NCCLS	≥10	0.05	-	-	-	-	10	-

VIBEL

Specification can be changed without any prior notice for development.

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