

Products

Sciencetoolseries water purification systemKflowseries water purification systemMiddle-fluxseries water purification systemDWseries 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.
- Il 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













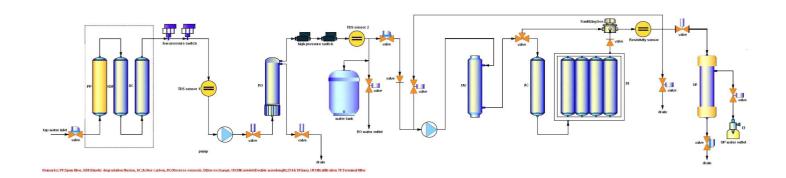








Water flow chart: Master-S UVF



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

Display System Display System Quality Monitor Quality Monitor Visual and Auditive Alarm Recirculation System Safety System Consumable-rep Iacing remind Santization Guality Monitor To display Consumable-rep Iacing remind System Consumable-rep Iacing auto-reminding, avoiding the decline of water quality water. RR emembrane flush Water tank Machine case Pipeline and adaptor Pretreatment cartridge RR membrane flush Comembrane flush Pretreatment cartidge RR membrane Automatically remind sapplication Automatically remind sapplication Automatically RO membrane flushing function, extending its life-span furthest Water tank Machine case Pipeline and adaptor Pretreatment cartridge RR membrane Automatically remind fush Water tank Machine case Pipeline and adaptor Pretreatment cartidge RR membrane Automatically reminded pre-cartridge, 6-8 times of normal active carbon(expect PP filter), unnecessary replacement for 2 year most, reducing the working cost furthest Manufactured by DOW or FCS, realize the combination of long-life and high-quality Ultra purification cartridges of ultra purification, using famous nuclear resin to assure best quality Double wavelength (185nm&254nm)UV lamp, restraining bacteria's increase, reducing TOC and enhancing the applicability. UF module Ferminal Fittration Fittration	30.3.6-1965	All their interfaces are considered that the second
type working mode display. 3-way online sensor, detecting the quality of inlet,RO outlet and ultrapure water respectively water, outlet along ultrapure water respectively water, outlet along ultrapure water respectively water over standard,no water,full water,outlet water over standard,Consumables' life-span ends, malfunction auto-detect, guaranteeing safety Manual and auto in one body, freely switchable, ultrapure water recirculation system, keeping a low polluted-level of bacteria with factory and clients' two password, every system setting can be protected, avoiding unauthorized operating. Consumable-rep Hele-span can be set and the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality. Ultra pure water pipeline can be regularly disinfected to keep a high quality water. Automatically RO membrane flushing function, extending its life-span furthest. On duty and off duty mode to keep abundance of RO water and realize rational working Water tank Water tank Water tank Water tank Water tank Ultra puriering design, streamline case Pipeline and adaptor Pretreatment cartridge Pretreatment cartridge Pretreatment working cost furthest RO membrane 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 Manufactured by DOW or FCS, realize the combination of long-life and high-quality Ultra purification cartridge best quality Double wavelength(185nm&254nm)UV lamp, restraining bacteria's increase, reducing TOC and enhancing the applicability. MWCO 5000D PES UF modelne, effectively eliminating endotoxin, can be used for precise cell cultiviating and IVF Sartorius high-speed and large flux 0.45+0.2 µm polyether alternative compound filter terminal disinfection filter, assuring the quality	Control System	Automatic microcomputer controlling, multi-menu operating.
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Terminal Filtration be used for precise cell cultivating and IVF Sartorius high-speed and large flux 0.45+0.2 μm polyether alternative compound filter terminal disinfection filter, assuring the quality	UV module	, , , , , , , , , , , , , , , , , , ,
Filtration compound filter terminal disinfection filter, assuring the quality	UF module	Author Sala A Company State of Artificial Activities of Astrophysical Astrophysical Activities (Company Astrophysical Astrophysi
		compound filter terminal disinfection filter, assuring the quality





LCD display function







Please in code:

Pre-treat: 0400 h UV lamp = 9000 h Pre-treat runtime : cir UV lamp runtime : cir TDS1 TDS2
Max: 0800 Max: 080.0
min: 0793 min: 079.0
EC:11000 EC:11000
TCQ: 0.020

	49_151		Reverse osmosis deionize	d water purification system		
Model		Master-Q	Master-Q UT	Master-Q plus	Master-Q plus UT	
Flow	procedure	PF+KDF+AC+RO+AC+	PF+KDF+AC+RO+AC+	PF+KDF+AC+RO+AC+	PF+KDF+AC+RO+AC+	
1 10 10	procedure	DI	UV+DI+TF	DI	UV+DI+TF	
		 ware washing • Agricult 	tural expe∙ General biologi	cal expe •Aquatic products	feeding. Inlet water for	
An	plication	Ultra pure water machine	Inler water for sterilizer/ T	&H chamber∙Buffer dispos	sing •Aseptic drinking	
,	8		cal analysis •Fine chemistry i	ndustry• Inlet water for Ultra	a pure water machine∙	
		GC/HPLC				
Pure	water Index			ater(TDS):5-10ppm*, Heav		
	Output/25°C\	ppb. Bacteria <1 CFU/mi(567,174,654,65 St. 45 1004	e(>0.22µm)<1/ml(Only for l	i model)	
	Output(25℃)		2000 Ann 200	nodel: 30 Liters/hour*)		
Tk-11	Moment output	1.5 Liters/hour (with pressure tank)				
Technical spec	Pure water outlet	2-RO water; High pure water				
	Dimension / Weight / Power	W×D×H:50×36×54cm/ 20-30 Kg/ 220V/50HZ, 120W				
	Mode display	Power on, program, inlet rins	e, producing, full, circle, regular	outlet, disinfection, consumabl	es replacing remind	
Control	Safety	Low pressure and full wat	er alarm, password,auto-re	set, outlet forbidden when	alarm or disinfection	
system	System monitor	Monitoring quality of inlet consumables	water, RO water and ultrap	ure water, temperature, uso	ed and left time of	
Water so	ource required	Tap water; inlet TDS<200 ppm,1-40°C,1.0-3.5 kg/cm² (if inlet TDS>200ppm, pretreatment is recommended)				
	Pretreatment unit	5μm spun fiber filter×1+ Long-effective KDF filter×1+ Granular active carbon filter×1				
urification	RO unit	100 GPD RO membrane	<1 (Plus model:2×100 GPE	RO membrane)		
system	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				
Ctondore	l configuration		Main body(including:1 s			

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

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

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





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

		Master-S series ultra	<mark>a pure water system</mark>	(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	
Flan		PF+KDF+AC+RO+AC+	PF+KDF+AC+RO+AC+	PF+KDF+AC+RO+UV+	PF+KDF+AC+RO+UV+	
FIOV	v procedure	DI+TF	DI+UF+TF	AC+DI+TF	AC+DI+UF+TF	
		GC,HPLC,IC,ICP	Molecular biology	HPLC,IC,ICP-MS	HPLC,IC,ICP-MS,CF-AAS	
Δι	oplication	PCR,weather an alyse	Cell and tissue cultivation	TOC and organism analyse	, Physics,electrochemistry,	
Δ)	oplication	Amino acid analyse	Life science,IVF	CF-AAS,toxicology study	Molecular biology, Cell	
		Reagent preparation	electrophoresis	Environmental analyse	cultivation	
	Resistivity		18.2 ΜΩ-	cm@25°C		
	Heavy metal		< 0.	1ppb		
Pure	TOC	<10	ppb	<3	ppb	
water	Bacteria		<1 C	=U/ml		
quality	Endotoxin	-	<0.001 EU/ml	-	<0.001 EU/ml	
	Particle(>0.22µm)	<1/ml				
	TDS (RO water)		5-10	ppm*		
	Output(25°C)		15 Liters/hour* (plus r	nodel: 30 Liters/hour*)		
Technical	Moment output	1.5 Liters/min (with pressure tank) (Less output with UF/UV cartridge)				
spec	Pure water outlet	2-RO water; Ultra pure water				
орос	Dimension / Weight / Power	W×D×H:50×36×54cm/ 20-30 Kg/ 220V/50HZ, 120W				
	Mode display	Power on, program, inlet rins	e, producing, full, circle, regula	routlet,disinfection, consumab	es replacing remind	
Control	Safety	low pressure and full wat	er alarm, password, auto-re	eset, outlet forbidden when	alarm or disinfection	
system	System monitor	Monitoring quality of inlet consumables	water, RO water and ultrap	oure water, temperature, us	sed and left time of	
Water s	ource required	Tap water; inlet TDS<200 ppm,1-40°C,1.0-3.5 kg/cm² (if inlet TDS>200ppm, pretreatment is recommended)				
	Pretreatment	5μm spun fiber filter×1+ L	ong-effective KDF filter×1-	- Granular active carbon fil	ter×1	
	unit	(Plus model:10" PP filter×1+10"KDF filter×1+10"granular active carbon filter×1)				
Purificati	RO unit	100 GPD RO membrane	×1(Plus model:2×100 GPI	O RO membrane)		
on		Post active carbon filter×	1 +Ultra pure polishing resi	n cartridge× 4+ 0.2μm term	ninal filter×1	
system	Subsequent unit	UV model:+Double wave	length(185&254 nm)UV ca	rtridge×1		
	Subsequent unit	UF model:+ 5000 Doultor	n UF cartridge×1			
		UVF model:+Double wavelength(185&254 nm)UV cartridge×1+5000 Doulton UF cartridge×1				
Standar	d configuration		Main body(including:1 se	et cartridge)+4gallon tank	(
		50nci and 15% recovery	10000040 x 0000	**GDD=gallon per day 1g		

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

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





^{**}GPD=gallon per day 1gallon=3.8L.

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

	Master-D series ultra pure water system (pure water inlet)					
	Model	Standard	Eliminating endotoxin	LowTOC	Comprehensive	
Wodel		Master-D	Master-D UF	Master-D UV	Master-D UVF	
Flow	v procedure	AC+DI+TF	AC+DI+UF+TF	UV+AC+DI+TF	UV+AC+DI+UF+TF	
		GC,HPLC,IC,ICP	Molecular biology	HPLC,IC,ICP-MS	HPLC,IC,ICP-MS,CF-AAS,	
۸۰	oplication	PCR,weather analyse	Cell and tissue cultivation	TOC and organism analyse	Physics,electrochemistry,	
<u> </u>	oplication	Amino acid analyse	Life science,IVF	CF-AAS,toxicology study	Molecular biology, Cell	
		Reagent preparation	electrophoresis	Environmental analyse	cultivation	
	Resistivity	Ultra	pure water:18.2 MΩ-cm@	25℃;High pure water:≥3 M	lΩ-cm	
Pure	Heavy metal		< 0.	1ppb		
water	TOC	<10	ppb	<3	ppb	
quality	Bacteria		<1 C	FU/ml		
quanty	Endotoxin	=	<0.001 EU/ml	<u> </u>	<0.001 EU/ml	
	Particle(>0.22µm)		<1.	/ m l		
	Output		1.5 Liters/min(Less outp	out with UF/UV cartridge)		
Technical	Pure water outlet		2- High pure wate	er;Ultra pure water		
spec	Dimension /	V	Nx Dx H:50x 36x 54cm/ 20	0-30 Kg/ 220V/50HZ, 120W		
	Weight / Power	·	(ADATI.00A00A046H) 20	-30 Ng/ 220 1/30 Nz, 120 N	.,	
	Mode display	Power on, program, inlet rinse	e, producing, full, circle, regula	r outlet,disinfection, consumab	les replacing remind	
Control	Safety	low pressure and full water	er alarm, password, auto-re	eset, outlet forbidden when	alarm or disinfection	
system	System monitor	Monitoring quality of inle consumables.	t water, RO water and ι	ıltrapure water, temperatu	re, used and left time of	
Water s	ource required	F	Ro water, distilled water, de	eionized water.5-45℃,1atm	*	
		Post active carbon filter×1+Mixed bed resin cartridge×1+Ultra pure polishing resin cartridge× 4+ 0.2μm				
Di	urification	terminal filter×1				
	system	UV model:+Double wavelength(185&254 nm)UV cartridge×1				
	эуэсни	UF model:+ 5000 Doulton	UF cartridge×1			
		UVF model:+Double wavelength(185&254 nm)UV cartridge×1+5000 Doulton UF cartridge×1				
Standard	d 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

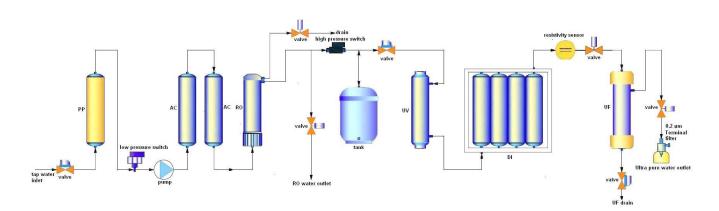
Consumables & accessories of master series					
Specs	Replacement term	Specs	Replacement term		
5μm spun fiber filter	About 2-6months	Mixed bed resin cartridge	About 1000 liters water		
Long-effective KDF filter	About 1 year	Ultra pure polishing resin cartridge	About 1000 liters water		
Granular active carbon filter	About 6months	5000 Doulton UF cartridge	8		
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(T	ap water inlet)		
Spe	ecification	RO s	ystem	RO deioniz	ation system	
	Model	RO lab	RO lab plus	RO DI/RO DI digital	RO Di pius/ RO Di digital pius	
Flow	procedure	PF+AC+RO+AC	PF+AC+RO+AC	PF+AC+RO+DI	PF+AC+RO+DI	
*		Ware washing	ıral expe	 Buffer disposing ◆Aseptic 	drinking water	
Δn	plication	General biological expe	Aquatic products feeding	Physical and chemical ana	lysis ●Fine chemistry industry	
7.4	phoduon	 Inlet water for Ultra pure 	water machine	 Inlet water for Ultra pure 	water machine	
		 Inlet water for sterilizer/ 1 	&H chamber	GC/HPLC		
	Pretreatment unit		Pre-filter	(optional)+		
Purification	1 Totroutment and	Special spun fiber filte	r×1+ Special active carbon	block filter×1+Special activ	e carbon block filter×1	
system	RO unit	100GPD RO membrane	2×100GPD RO membrane	100 GDP RO membrane	2×100GPD RO membrane	
	Subsequent unit	Post active c	arbon filter×1	Mixed bed resin cartridge×2	Mixed bed resin cartridge×3	
	Desalination rate%	96-9	8 *	Nearly 100*		
Pure water	TDS	5-10 ppm		RO water:5-10 ppm		
quality	Resistivity	-		10-16MΩ-cm		
	Conductivity	25.		0.1-0.063µs/cm		
Pure	water outlet	1:RO water		2:RO water; Deionization water		
		Automatic electronic pressure sensor controlling, RO membrane auto flushing, automatic stop without				
Cont	rol system	water, automatic stop whe	water, automatic stop when water tank full, automatic cutting off water when pump stopping, guaranteeing			
		24 hours' work.				
Water q	uality monitor	TDS te	est pen	TDS test pen + LCD online resistivity monitor		
Inlet wat	er requirement		Tap water:TDS<200ppi	m,5-40℃,1.0-3.5Kg/cm²		
Output(25°C)		15 liters/hour*	30 liters/hour*	15 liters/hour*	30 liters/hour*	
Instanta	aneous output	1.5 L/min (with pressure tank)				
Power		220V/50Hz, 48W plus model:72W				
External dir	mension / Weight		H×W×D:42×41	×22cm / 12-14kg		
Standard	i configuration		Main body(including:1 se	t cartridge)+3.2gallon tan	k	

PF:Spun fiber AC:Active carbon RO:Reverse osmosis DI:lon exchange.



RO Lab / RO Lab plus



RO DI / RO DI plus



RO DI digital/RO DI digital plus

^{**}GPD=gallon per day. 1gallon=3.8L.

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

Research series ultra pure water system (DI water inlet)

		Ultra series	pure water system (Ta	ap water inlet)		
Spec	cification	Standard	Eliminating endotoxin	Low TOC	Comprehensive	
524		Ultra pure	Ultra pure UF	Ultra pure UV	Ultra pure UVF	
IV	lodel	Ultra pure plus	Ultra pure plus UF	Ultra pure plus UV	Ultra pure plus UVF	
Flow	orocedure	PF+AC+RO+DI+TF	PF+AC+RO+DI+UF+TF	PF+AC+RO+UV+DI+TF	PF+AC+RO+UV+DI+UF+TI	
Арр	olication	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.	
	Pretreatment	Pre-filter (optional)				
	unit	Special spun fiber filter ("plu active carbon block filter×1	us" model: outside 10" spun 1	iber filter)×1+Special active o	carbon block filter×1+Special	
	RO unit	100GPD RO membrane×1	("plus" model:2×100GPD RC) membrane)		
Purification system	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				
	Resistivity		18.2 MΩ-cm@25°C			
	Heavy metal		<0.	1ppb		
Pure water	TOC	<10	ppb	<5	ppb	
quality	Endotoxin	ш	<0.001 Eu/ml	-	<0.001 Eu/ml	
	particle(>0.22µm)	<1/ml				
	Bacteria		< 10	fu/ml		
Pure w	ater outlet		2: RO water ;t	Jitra pure water		
Contr	ol system	Automatic electronic pressur automatic stop when water to			atic stop without water, guaranteeing 24 hours' work.	
Water qu	ality monitor	5	TDS test pen + LCD o	online resistivity monitor		
Inlet wate	r requirement		Tap water:TDS<200ppr	n,5-40℃,1.0~3.5Kg/cm²		
Outp	ut(25℃)		15 liters/hour* ("plus"	model: 30 liters/hour*)		
Instantar	neous output	1.5	L/min (with pressure tank) (I	ess output with UF/UV cartri	idge)	
P	ower		220V/50Hz, 48V	// plus model:72W		
External dir	mension/Weight		H×W×D: 42×41	×22 cm/ 12-14 kg		
Standard	configuration		Main body(including:1 se	t cartridge)+3.2galion tank		

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

PF:Spun fiber AC:Active carbon RO:Reverse osmosis DI:lon exchange UV:Ultraviolet(Double wavelength:254&185nm) UF:Ultrafiltration TF: Terminal filter





^{**}GPD=gallon per day, 1gallon=3.8L.

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

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 w	ater, deionized water		
Pur	ification 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				
	Resistivity	18.2 MΩ-cm @25°C				
	Heavy metal		<0.1ppb			
Pure	TOC	<10)ppb	<5 ppb		
water	Endotoxin	-	< 0 . 0 0 1 Eu/ml	-	< 0 . 0 0 1 Eu/ml	
quality	particle(>0.22µm)		<1	1/ml		
	Bacteria	<1cfu/ml				
Pur	re water outlet	2: DI water ;Ultra pure water				
Control	and display system	Automatic electronic pressure sensor controlling, recirculation function; LCD online resistivity monitor				
C	Output(25℃)	1.0-1.3 liters/min (with pressure tank) (Less output with UF/UV cartridge)				
Power		220V/50Hz, 72W				
	Power					
External	dimension / Weight			×22 cm/ 12-14 kg		

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

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





^{**}GPD=gallon per day 1gallon=3.8L.

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

Specs	Replacement term	Specs		Replacement term
Special spun fiber filter	2-6 months*	TDS test	pen	-
Special active carbon block filter	4-6months*	5000 Doi	ılton 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 (85&254nm)wave lamp	About 9000h
Mixed bed resin cartridge	Around 1000L		10"PP+resin soften water filter	
Ultra pure polishing resin cartridge	Around 1000L	pre-filter	10"PP filter	2-6month *
0.22µm terminal filter	u .		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		Ultra pure water p	ourification system	
Spec	ilication	purification system	Standard	Eliminating endotoxin	Low TOC	Comprehensive
М	odel	RO DI 400/600/800	UP400/600/800	UP400/600/800 UF	UP400/600/800UV	UP400/600/800 UVF
Flower	rocedure	PF+AC+RO+AC+DI+TF	PF+AC+RO+AC+DI+	PF+AC+RO+AC+DI+	PF+AC+RO+UV+AC+	PF+AC+RO+UV+AC
ΓΙΟΨ	rocedure	FFTACTROTACTOITIF	TF	UF+TF	DI+TF	+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.	analysis, Environmental analysis, HPLC,TOC,VOC,GC/ MS,Pharmacy research,Medicine	Molecular biology Micro organic analysis Environmentalanalysi s, Pharmacy research Medicine examining Cell cultivating IVF etc.
Inlet water	requirement		Tap water: TD	S<200ppm,5-40℃,1.0-	3.5Kg/cm²	
	Pretreatment	ent Pre-filter (optional)+				
	unit	20" 5µm spun fiber filter×1+20" granular active carbon filter×1+20" active carbon block filter				
	RO 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+				
Purification system	Subsequent unit					g resin cartridge×2+
Pure wa	iter quality	Resistivity:18.2 MΩ-cm(R0 <0.001Eu/ml(UF model); p			o; TOC<10ppb(UV mod	del); Endotoxin
Pure w	ater outlet		2个: RO 水; de	eionization water or ultr	a pure water	
Contro	ol system	Micro-computer contro water full, automatic cuttin			top without water, auto	omatic stop when
Мо	nitor system		LCD	online resistivity monito	r	
Outp	ut(25℃)	400 ser	ies:63 liters/hour; 600 s	series : 94 liters/hour ; 8	300 series:125liters/ho	ur*
Instantaneo	us output L/min			1.5L/min		
	ower			eries :240W; 800serie	TELE SECTION CONT.	
	ension / Weight			D: 110×65×47 cm / 70k		
Standard configuration Main body(including:1 set cartridge)+11gallon tank						

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

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

UF:Ultrafiltration TF: Terminal filter

^{**}GPD=gallon per day, 1gallon=3.8L.

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

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	37 <u>—</u> 7		
20" active carbon block filter	2-4 month *	11 gallon tank	a.e.		
10"granular active carbon filter	2-4 month *	20 gallon tank	87 <u>2</u> 3		
100GPD RO membrane	1-2 years *	5000 Doulton UF cartridge	0 =		
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 			
Р	ure water quality	Resistivity of deionized water:>10M Ω -cm, dissolved solid)of RO water 5-10 ppm*	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 *		
Wat	er quality monitor /	TDS(total dissolved solid)test pen/			
F	Pure water outlet	2:RO water, De	ionization water		
External c	limension/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/cm²			
Purification	Pretreatment unit	10" PP spun fiber filter×1+10" granular acti∨e carbon filter×1+10" acti∨e carbon block filter×1			
system	RO unit	100GPD RO membrane×1	100GPD RO membrane×2		
	Subsequent unit	Mixed bed resin cartridge-D×2	Mixed bed resin cartridge-D×3		
Star	ndard configuration	Main body(including:1 set cartridge)			

^{*} Inlet water :TDS200ppm, 25 $^{\circ}\mathrm{C},$ 50psi and 15% recovery rate.

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*							

^{**}GPD=gallon per day. 1gallon=3.8L.

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

CAP & NCCLS pure water standard

	Resistivity 25°C MΩ*cm	Sio₂ Mg/L.max	Heavy metal Mg/L.max	Km _n o ₄ disinfection .min	Na Mg/L.max	NH₄ ⁺ Mg/L.max	Microor ganism	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	61 <u>6</u>		-	<u> </u>	10	ĕ





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