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DEIONIZED WATER PURIFICATION SYSTEM

It provides a variety of applications from residential to scientific and industrial settings. It completely meets the requirements of general chemical or biological experiments for pure water. Deionized water system is an ideal choice of deionized water for grade experiments. Used in Laboratory, Manufacturing, Reefkeeping, Aquarium. Also known as Laboratory Deionized water system.

WD11 SERIES BASIC DEIONIZED WATER SYSTEM

- Automatic microcomputer controlling system, LED real-time animation mode display.
- Running status is showed in the LED, such as flushing, producing water, full tank, water shortage, leakage and service.
- Power on self test, power reset, alarm when work more than 6 hours continuously, water shortage, leakage, low pressure
- and high pressure.
- 3 procedure of the reverse osmosis membrane's self-flushing: power on, water shortage reset and work more than 2 hours
- continuously, extend the life of RO membrane.
- Bench top and floor stand(except for 45 series and built-in tank type), 2 kind installation method
- High-strength shell with powder painting technics, achieve elegant appearance and meeting GLP standard
- Pretreatment cartridges, RO module, deionized cartridges, all designed to modularization independently. Easy to
- maintenance and replacement.
- Built-in 12 liters pressure tank (IT series), save lab space and easy to maintain.
- Different external tanks (optional) to meet every need and assure ample water-supply.
- Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.
- DOW's RO membrane, ensure stable operation and high desalinization rate.
- Precision polishing mixed resin cartridge, combine high pure water quality and low running cost.
- Portable TDS/conductivity test pen, testing feed water, RO water and deionized water's quality.



Model	WD111	WD112	WD113
Water Inlet	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)		
Temperature	ταρ water. 123 (200 pp	5-45°C	паса, п 1237200 ррті
Pressure		1.0-4.0 Kgf/cm ²	
		PF+AC+RO+DI	
Flow Procedure**			
lon rejection rate		96%-99% (New RO membrane)	
Organic rejection rate		>99% (when MW>200 Dalton)	
Particles and bacteria rejection rate		>99%	
Bacteria		<0.1 cfu/ml (with terminal filter)	
Output(25°C)****		15 L/hrs	30 L/hrs
Pure water outlet		RO and deionized water	
DimensionLxWxH	410×320×420 mm	410×400×420 mm	410×320×420 mm
Weight	15 kg	20 kg	15 kg
Standard configuration	Main body (Including 1 set of cartridges) + TDS pen+ accessory bag	Main body (Including 1 set of cartridges)+ built-in 10 liters tank + TDS pen+ accessory bag	Main body (Including 1 set of cartridges) + TDS pen+ accessory bag
Power Consumption (W)		72 W	
Power Supply		AC110-220 V, 50/60 Hz	
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, DI:ion exchange. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.		
Resistivity	>13-17.5 MΩ.cm		
Conductivity	0.057-0.077μs/cm		
Particle(>0.2µm)	Particle (>0.2 μm)<1/ml (with terminal filter)		

Model	WD114	WD115	
Water Inlet	Tap water: TDS<200 ppm (Extra pretreatment file	ter is recommended, if TDS>200 ppm)	
Temperature	5-45°C		
Pressure	1.0-4.0 Kgf/c	m²	
Flow Procedure**	PF+AC+RO+	DI	
Ion rejection rate	96%-99% (New RO n	nembrane)	
Organic rejection rate	>99% (when MW>2	00 Dalton)	
Particles and bacteria rejection rate	>99%		
Bacteria	<0.1 cfu/ml (with terr	minal filter)	
Output(25°C)****	30 L/hrs	45 L/hrs	
Pure water outlet	RO and deionized	d water	
DimensionLxWxH	410×400×420 mm	410×320×420 mm	
Weight	20 kg	15 kg	
Standard configuration	Main body (Including 1 set of cartridges)+ built-in 10 liters tank + TDS pen+ accessory bag	Main body (Including 1 set of cartridges) + TDS pen+ accessory bag	
Power Consumption	72 W	120 W	

(W)			
Power Supply	AC110-220 V, 50,	/60 Hz	
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, DI:ion exchange. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.		
Resistivity	>13-17.5 MΩ.cm		
Conductivity	0.057-0.077µs/cm		
Particle(>0.2µm)	Particle (>0.2 µm)<1/ml (with terminal filter)	<1/ml	

WD12 SERIES DEIONIZED WATER SYSTEM

- Human engineering design, high-strength, streamline plastic shell.
- One time injection molding process case, material: Polypropylene PP.
- Elegant and compact case, integrating pre-filter, RO, DI, UV, UF and terminal filter into one.
- All filters are built-in, for the smallest outside space.
- Top cap of pre-filters in the case can be rapidly opened to replace the pre-filters without opening the case.
- With electronic pressure sensor and microcomputer controlling, the system automatically produces pure water.
- Automatic stop without water, automatic stop when water tank full, automatically cutting off water when pump stopping,
- quaranteeing 24 hours' work.
- Self-flushing of the reverse osmosis membrane, extend the life of RO membrane.
- On-line resistivity monitor, with apheliotropic LCD display, to detect the quality of deionized or ultrapure water.
- Attached portable TDS (total dissolved solid)/conductivity test pen, with dry cell design, to detect the quality of tap water
- and RO water.
- Different external tanks (optional) to meet every need and assure ample water-supply.
- Pretreatment cartridges, RO module, ultrapure cartridges, all designed to modularization independently. Easy to
- maintenance and replacement.
- Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.
- DOW's RO membrane, ensure stable operation and high desalinization rate.
- 4 ultrapure cartridges, with DOW's nuclear-grade polishing resin, ensure ultrapure water's quality up to 18.2 M Ω .cm,
- with the lowest TOC dissolution.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.



- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin precise cell cultivating and IVF.
- (0.45+0.1)µm double layer PES terminal disinfection filter, assure the quality absolutely axenic.

Model	WD121	WD122	WD123	WD124
Water Inlet	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)			ded, if TDS>200 ppm)
Temperature		5-4	5°C	
Pressure		1.0-4.0	Kgf/cm²	
Flow Procedure**	PF+AC+RO+DI	PF+AC+RO+DI+UV+TF	PF+AC+RO+DI	PF+AC+RO+DI+UV+TF
Ion rejection rate		96%-99% (New	RO membrane)	
Organic rejection rate		>99%,when M	W>200 Dalton	
Particles and bacteria rejection rate		>9	9%	
Output(25°C)****		15 L/hrs		30 L/hrs
Pure water outlet		RO and deid	onized water	
Water Quality Monitor	Portable TDS/conductivity test pen + on-line resistivity monitor			
DimensionLxWxH		410×220	×420 mm	
Weight	20 kg			
Standard configuration	Main body (Including 1 set of cartridges)+15 liters tank+ TDS pen +accessory bag			pen +accessory bag
Power Consumption (W)	48 W 72 W			72 W
Power Supply		AC110-220	V, 50/60 Hz	
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, DI:ion exchange, UV:ultraviolet, TF:terminal microfiltration. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.			
Resistivity	>15-18.2 MΩ.cm			
Conductivity	0.055-0.067μs/cm			
Particle(>0.2µm)	<1/ml	-	<1/ml	-
Flow rate	2.0 L/min (with pressure tank)			
Bacteria	- <0.1 cfu/ml - <0.1 cfu/ml			<0.1 cfu/ml

WD13 SERIES MEDIUM DEIONIZED WATER SYSTEM

- Automatic microcomputer controlling system, multi-menu operating, realtime animation mode display.
- Super-large LCD (Resolution:240×128, dimension:106×57mm) display, display the system running state and various parameters intuitively.
- 3 way on-line sensor, detect the quality of feed water, RO water, or ultrapure water respectively.
- Self-flushing of the reverse osmosis membrane, extend the life of RO membrane.
- Multiple alarm functions: such as no water, full water, disqualification of feed water, RO water, deionized water or ultrapure water, cartridge's lifespan ends.
- The cartridge's life-span can be set, the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.
- Level II password, protect all the parameters setting, and prohibit any unauthorized settings change.
- -Water dispensing function-timing and quality (Time range:1-99min, water quality range:0.1-18.2M Ω .cm).
- RS 232/USB communication port(optional), at least store 1 years' water quality data.
- 2 built-in tank (capacity:15 liters per tank) to save lab space, and optional exterior tanks meet different need to assure ample water-supply.
- High-strength stainless steel shell with powder painting technics, achieve elegant appearance and meeting GLP standard.
- The system is floor type, and it is convenient to move with wheels on the bottom.
- Enough internal space is reserved to add circulation transportation system for central water supply.
- Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.
- -DOW's RO membrane, ensure stable operation and high desalinization rate.
- Special large capacity ultrapure polishing technology, to optimize pure water quality maximumly with minimum resin. With DOW's nuclear-grade polishing resin, to ensure ultrapure water's quality up to 18.2 M Ω .cm, with the lowest TOC dissolution.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin precise cell cultivating and IVF.
- (0.45+0.1)µm double layer PES terminal disinfection filter, assure the quality absolutely axenic.



Model	WD131	WD132	WD133	
Water Inlet	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200ppm)	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)	
Temperature		5-45°C		
Pressure		1.0-4.0 Kgf/cm ²		
Flow Procedure**		PF+AC+RO+AC+DI+TF		
Ion rejection rate		96%-99% (New RO membrane)		
Organic rejection rate		>99%, when MW>200 Dalton		
Particles and bacteria rejection rate		>99%		
Bacteria		<0.1 cfu/ml		
Output(25°C)****	45 L/hr	63 L/hr	94 L/hr	
Pure water outlet		RO water and Deionized water		
DimensionLxWxH		640×540×1110 mm		
Weight		70 kg		
Standard configuration	Main body (Including 1	set of cartridges)+ 2 built-in15 lite	ers tank +accessory bag	
Power Consumption (W)	120) W	240 W	
Power Supply		AC110-220 V, 50/60 Hz		
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, DI:ion exchange, TF:terminal microfiltration. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.			
Resistivity		>10-18.2 MΩ.cm		
Conductivity	0.055-0.1μs/cm			
Particle(>0.2µm)	<1/ml			
Heavy metal ion				

Model	WD134	WD135
Water Inlet	Tap water: TDS<200 ppm (Extra pretreat	ment filter is recommended, if TDS>200 ppm)
Temperature	ī	5-45°C
Pressure	1.0-4	.0 Kgf/cm²
Flow Procedure**	PF+AC+RO+AC+DI+TF	PF+AC+RO+RO+AC+DI
Ion rejection rate	96%-99% (No	ew RO membrane)
Organic rejection rate	>99%, when MW>200 Dalton	>99%(when MW>200 Dalton)
Particles and bacteria rejection rate	>99%	

Bacteria	<0.1 cfu/ml	<0.1 cfu/ml (with terminal filter)
Output(25°C)****	125 L/hr	250 L/hr
Pure water outlet	RO water and Deionized water	RO and Deionized water
DimensionLxWxH	640×540×1110 mm	760×550×1210 mm
Weight	70 kg	85 kg
Standard configuration	Main body (Including 1 set of cartridges)+ 2 built-in15 liters tank +accessory bag	Main body (Including 1 set of cartridges) + accessory bag
Power Consumption (W)	240 W	480 W
Power Supply	AC110-2	20 V, 50/60 Hz
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, Dl:ion exchange, TF:terminal microfiltration. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.	*The feed water quality will influence the pure waters quality and cartridges life-span. **PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis, DI:ion exchange, ***Value of number will be influenced by temperature and feed water quality. ****All the specifications are tested under the situation:feed waters TDS=200ppm, 25°C, 50psi and 15% recovery rate.
Resistivity	>10-18.2 MΩ.cm	
Conductivity	0.055-0.1μs/cm	-
Particle(>0.2µm)	-	<1/ml
Heavy metal ion	-	<0.1 ppb

WD14 SERIES DEIONIZED WATER SYSTEM

- Automatic microcomputer controlling system, multi-menu operating, real-time animation mode display.
- Super-large LCD (Resolution:240×128, dimension:106×57mm) display, display the system running state and various parameters intuitively.
- 3 way on-line sensor, detect the quality of feed water, RO water, or ultrapure water respectively.
- System sterilization procedure, achieve the disinfection of ultrapure water's pipeline.
- System circulation function, circulate water when the system stops working, to keep water quality.
- Self-flushing of the reverse osmosis membrane, extend the life of RO membrane.
- Multiple alarm functions: such as no water, full water, disqualification of feed water, RO water, deionized water or ultrapure water, cartridges' life-span ends.
- The cartridge's life-span can be set, the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.
- Level II password, protect all the parameters setting, and prohibit any unauthorized settings change.
- Water dispensing function-timing and quality (Time range:1-



- 99min, water quality range:0.1-18.2M Ω .cm).
- RS 232/USB communication port(optional), at least store 1 years' water quality data.
- Different external tanks (optional) to meet every need and assure ample water-supply.
- Human engineering design, molding process, high-strength, streamline plastic shell.
- Pretreatment cartridges, RO module, ultrapure cartridges, all designed to modularization independently. Easy to maintenance and replacement.
- Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.
- KDF pretreating cartridge, replace the ordinary active carbon, prolong the life-span to 12 months, reduce the running cost.
- DOW's RO membrane, ensure stable operation and high desalinization rate.
- 4 in 1 ultrapure cartridges (also can be divided to 4 independent cartridge), with DOW's nuclear-grade polishing resin, ensure ultrapure water's quality up to 18.2 M Ω .cm, with the lowest TOC dissolution.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin precise cell cultivating and IVF.
- (0.45+0.1)µm double layer PES terminal disinfection filter, assure the quality absolutely axenic.

Model	WD141	WD142	WD143	WD144
Water Inlet	Tap water: TD:	S<200 ppm (Extra pretreatme	ent filter is recommende	ed, if TDS>200 ppm)
Temperature		5-4	5°C	
Pressure		1.0-4.0	Kgf/cm²	
Flow Procedure**	PF+KDF+AC+RO+AC +DI	PF+KDF+AC+RO+AC+DI+ UV+TF	PF+KDF+AC+RO+AC +DI	PF+KDF+AC+RO+AC+DI+U V+TF
Ion rejection rate		96%-99% (New	RO membrane)	
Organic rejection rate	>99%, when MW>200 Dalton			
Particles and bacteria rejection rate		>99%		
Output(25°C)****	•	15 L/hr 30 L/hr		30 L/hr
Pure water outlet	RO water and Deionized water			
DimensionLxWxH	500×360×540 mm			
Weight	22 kg			
Standard configuration	Main body (Including 1 set of cartridges)+15 liters tank+ accessory bag			

Power Consumption (W)	120 W			
Power Supply		AC110-220	V, 50/60 Hz	
Note	*The feed water quality will influence the pure water's quality and cartridges' life-span. **PF:polypropylene spun fiber, KDF:kinetic degradation fluxion, AC:active carbon, RO:reverse osmosis, DI:ion exchange, UV:ultraviolet, TF:terminal microfiltration. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.			
Resistivity	>16-18.2 MΩ.cm			
Conductivity	-			
Particle(>0.2µm)	<1/ml - <1/ml			<1/ml
Heavy metal ion	<0.1 ppb			
Flow rate	2.0 L/min (with pressure tank)			
Bacteria	-	- <0.1 cfu/ml - <0.1 cfu/ml		

WD15 SERIES DEIONIZED WATER SYSTEM

- Integrating with lonpure Electro deionization technology and module.
- The largest capacity is 240 liters pure water per day.
- Automatic microcomputer controlling system, multi-menu operating, real-time animation mode display.
- Super-large LCD (Resolution:240×128, dimension:106×57mm) display, display the system running state and various parameters intuitively.
- 3 way on-line sensor, detect the quality of feed water, RO water, deionized water or ultrapure water respectively.
- System sterilization procedure, achieve the disinfection of ultrapure water's pipeline.
- System circulation function, circulate water when the system stops working, to keep water quality.
- Self-flushing of the reverse osmosis membrane, extend the life of RO membrane.
- Multiple alarm functions: such as no water, full water, disqualification of feed water, RO water, deionized water or ultrapure water, cartridges' life-span ends.
- The cartridges' life-span can be set, the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.
- Level II password, protect all the parameters setting, and prohibit any unauthorized settings change.
- Water dispensing function-timing and quality (Time range:1-99min, water quality range:0.1-18.2M Ω .cm).
- RS 232/USB communication port (optional), at least store 1 year's water quality data.
- Different external tanks (optional) to meet every need and assure ample water-supply.
- · Human engineering design, molding process, high-strength,



- streamline plastic shell.
- Pretreatment cartridges, RO module, Electro deionization module, ultrapure cartridges, all designed to modularization independently. Easy
- to maintenance and replacement.
- Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.
- KDF pretreating cartridge, replace the ordinary active carbon, prolong the life-span to 12 months, reduce the running cost.
- DOW's RO membrane, ensure stable operation and high desalinization rate.
- 4 in 1 ultrapure cartridges (also can be divided to 4 independent cartridge), with DOW's nuclear-grade polishing resin, ensure ultrapure water's quality up to 18.2 M Ω .cm, with the lowest TOC dissolution.
- Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC.
- MWCO 5000D ultrafiltration module, effectively eliminate endotoxin precise cell cultivating and IVF.
- $(0.45+0.1)\mu m$ double layer PES terminal disinfection filter, assure the quality absolutely axenic.

Model	WD151	WD152	
Water Inlet	Tap water: TDS<200 ppm (Extra pre	treatment filter is recommended if TDS>200 ppm)	
Temperature		5-45°C	
Pressure	-	I.0-4.0 Kgf/cm²	
Flow Procedure**		-	
Ion rejection rate	96%-99%	6 (New RO membrane)	
Organic rejection rate	>99%,v	hen MW>200 Dalton	
Particles and bacteria rejection rate		>99%	
Output(25°C)****		10 L/hrs	
Pure water outlet	2: RO water,	Electro Deionization water	
DimensionLxWxH	50	0×360×540 mm	
Weight		25 kg	
Standard configuration	Main body (Including 1 set o	f cartridges) + 20 liters tank+accessory bag	
Power Consumption (W)		120 W	
Power Supply	AC110-220 V, 50/60 Hz		
Note	**PF:polypropylene spun fiber, KDF:kinetic o	*The feed water quality will influence the pure water's quality and cartridges' life-span. polypropylene spun fiber, KDF:kinetic degradation fluxion, AC:active carbon, RO:reverse osmosis, ftener, EDI: electro deionization, UV:ultraviolet, TF:terminal microfiltration. ***Value of number will	

	be influenced by temperature and feed water quality. ****All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate.		
TOC***	<30 ppb		
Flow procedure**	PF+KDF+AC+RO+SF+EDI	PF+KDF+AC+RO+SF+EDI+UV+TF	
Resistivity***	>5 MΩ.cm		
Silicon rejection rate	>99.9%		
Bacteria	- <0.1 cfu/ml		
Particles(>0.2µm)	- <1/ml		

WD16 SERIES LARGE CAPACITY DEIONIZED WATER SYSTEM

- With tap water inlet, to produce RO water and ultrapure water, quality can reach to above $10M\Omega$.cm.
- Built-in 20 liters airtight plastic pressure water tank
- Built-in 13 liters high-capacity polishing resin cartridge
- Unique design and easy-to-replace cartridges pack unit.
- Data storage and RS 232/USB communication port.
- 3 way on-line water quality sensor, multiple alarm.
- Life-span of cartridges' display and alarm.
- System circulation function, system sterilization procedure. (optional)
- Molding process, high-strength, streamline plastic shell.
- The graphic display clearly indicates all system's 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.
- The system requires no special installation, connect the system to your tap water supply it's ready to use.



Model	WD161	WD162		
Water Inlet	Тар ч	Tap water		
Temperature	5-4	5-45°C		
Pressure	1.0-4.0	1.0-4.0 Kgf/cm ²		
Bacteria	<0.1 (<0.1 cfu/ml		
DimensionLxWxH	570×600>	570×600×1500 mm		
Weight	60	kg		
Power Consumption (W)	120 W	240 W		
Power Supply	AC110-220 V, 50/60 Hz			
Note	*The quality of output water accords with the quality of inlet water.			
Resistivity	>10 MΩ.cm			

Conductivity	-	
Particle(>0.2µm)	<1/ml	-
Heavy metal ion	<0.1 ppb	
Output	60 L/hrs	90 L/hrs
Conductivity of RO water quality	< tap water×4%	

