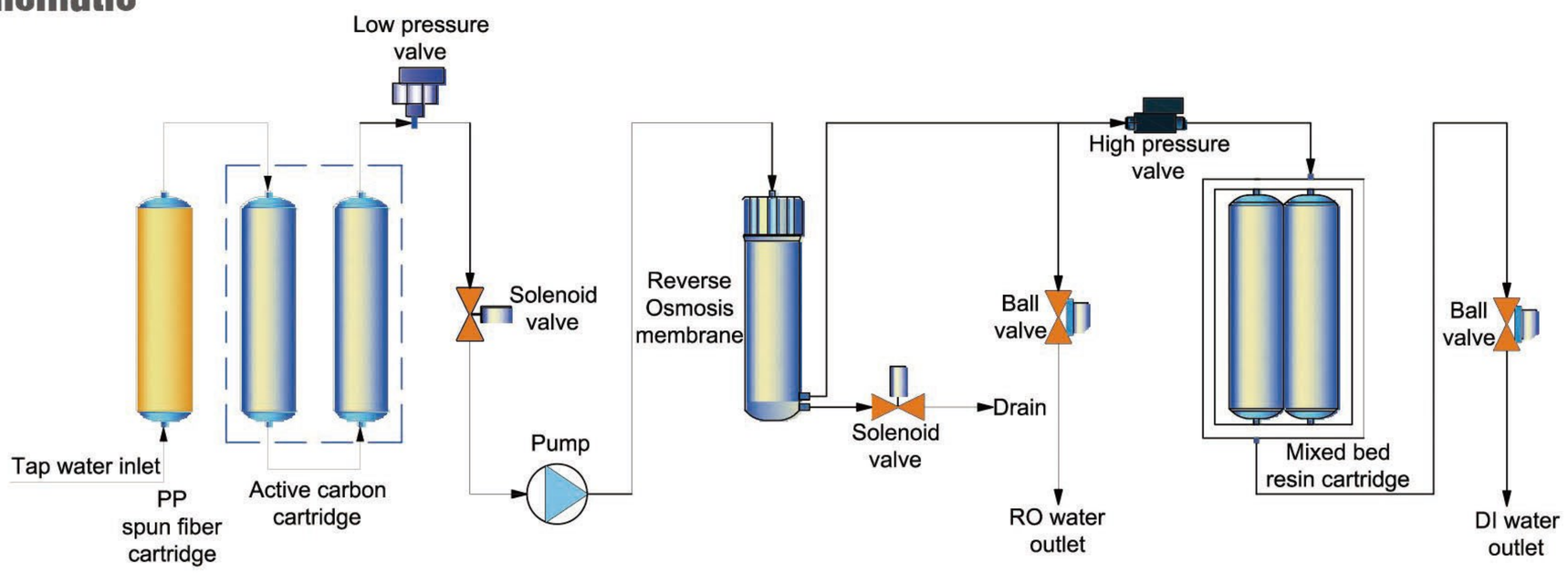
Basic-Q series

Deionized water system (Tap water inlet)

With LED controlling system, single stage RO system, 1 pump, and portable TDS/conductivity test pen, Basic-Q series deionized water system is basic choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 15 to 45 liters/hour. It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 97%, and the deionized water's resistivity is more than 13MΩ.cm, near to17.5MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow Schematic



Specifications

Model	Basic-Q15	Basic-Q30	Basic-Q45
Output(25℃)*	15 liters/hour	30 liters/hour	45 liters/hour
Flow rate	Up to 2 liters/minute (with pressure tank)		
Pure water outlet	2: reverse osmosis water, deionized water		
Deionized water quality			
Resistivity(25℃)	13-17.5MΩ.cm		
Bacteria	<0.1cfu/ml (with optional 0.2μm PES terminal filter)		
Particle(>0.2μm)	<0.1cfu/ml (with optional 0.2μm PES terminal filter)		
RO water quality			
Ion rejection rate	97%-99% (new RO membrane)		
Organic rejection rate	>99%, when MW>200 Dalton		
Particles and bacteria rejection rate	>99%		
Feed water requirements	Tap water, temperature:5-45℃,pressure:1.0-4.0Kgf/cm^2		
Dimension and weight	Q15,Q30 series: Length×Width×Height: 410×320×420mm/ Weight: about 15Kg Q45 series: Length×Width×Height: 410×400×420mm/ Weight: about 20Kg		
Electrical requirements	AC110-240V, 50/60Hz		
Power	Q15,Q30 series: 72W, Q45 series: 120W		
Standard configuration	Main body (Including 1 set of cartridge) + TDS/conductivity test pen		

Remarks:

*The value will be influenced by temperature and feed water's quality.

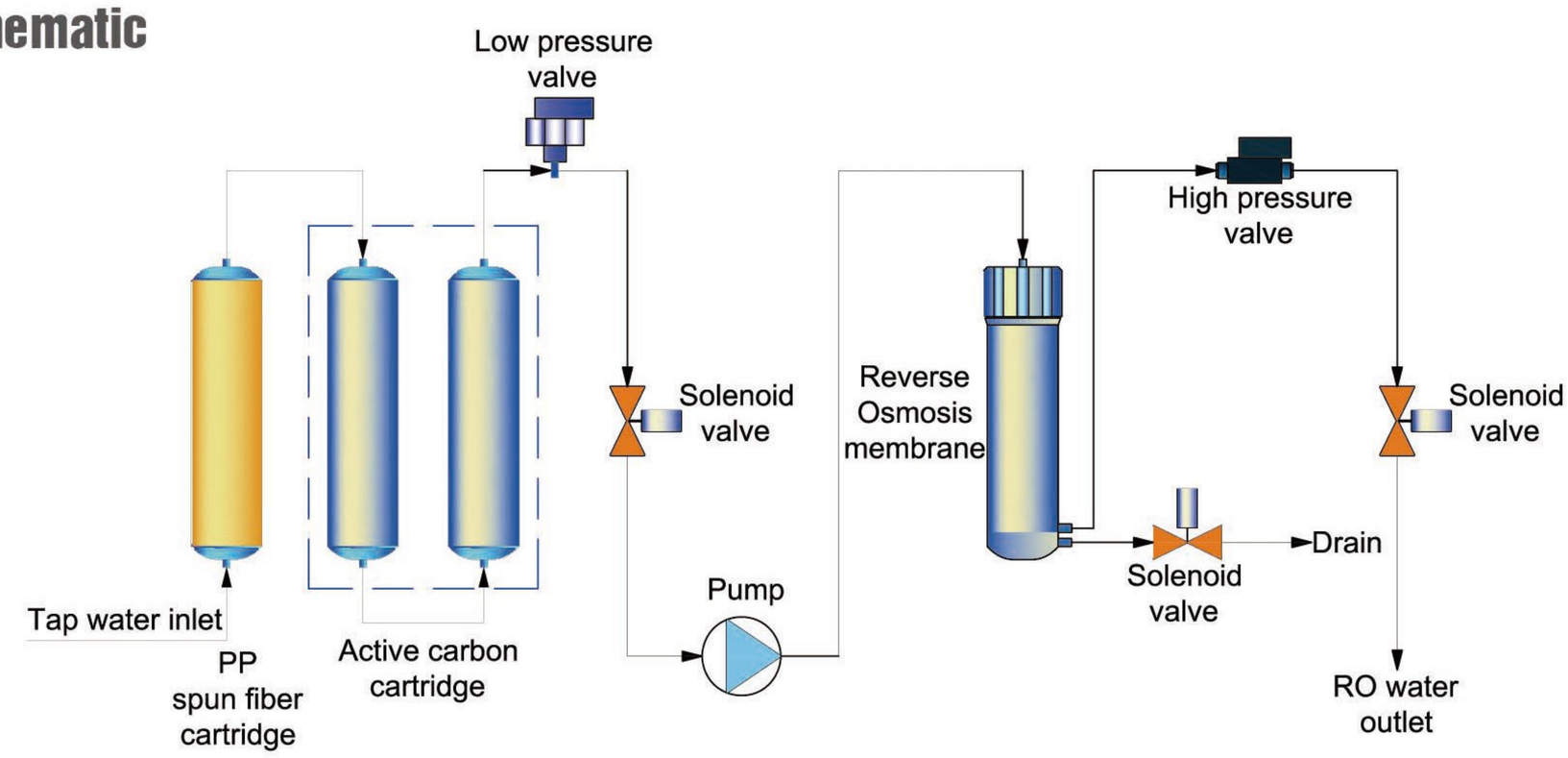
Smart-RO series

Reverse osmosis water system (Tap water inlet)

With injection molding process case, single stage RO system, 1 pump, and portable TDS test pen, Smart-RO series reverse osmosis water system is economic choice of RO water for general glassware washing.

With tap water inlet, its output ranges from 15 to 30 liters/hour. It can produce single stage RO water. The single stage RO water's ion rejection rate is more than 97% (new RO membrane), organic rejection rate>99% (when mw>200 Dalton), particles and bacteria rejection rate>99%. It is suitable for glassware washing, feed of ultrapure water system, autoclave sterilizer, constant temperature and humidity chamber, salt spray test chamber, dampening machine and etc.

Flow Schematic



Specifications

Model	Smart-R015	Smart-R030
Output(25℃)*	15 liters/hour	30 liters/hour
Flow rate	Up to 2 liters/minute (with pressure tank)	
Pure water outlet	1: reverse osmosis water	
RO water quality		
Ion rejection rate	97%-99% (new RO membrane)	
Organic rejection rate	>99%, when MW>200 Dalton	
Particles and bacteria rejection rate	>99%	
Bacteria	<0.1cfu/ml (with optional 0.45+0.1μm PES terminal filter)	
Particle(>0.1μm)	<1/ml (with optional 0.45+0.1μm PES terminal filter)	
Feed water requirements	Tap water, temperature:5-45℃,pressure:1.0-4.0Kgf/cm^2	
Dimension and weight	Length×Width×Height:410×220×420mm / Weight: about 16Kg	
Electrical requirements	AC100-240V, 50/60Hz	
Power	48W	72W
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank+ TDS/conductivity test pen	

Remarks:

*The value will be influenced by temperatu e and feed water's quality.

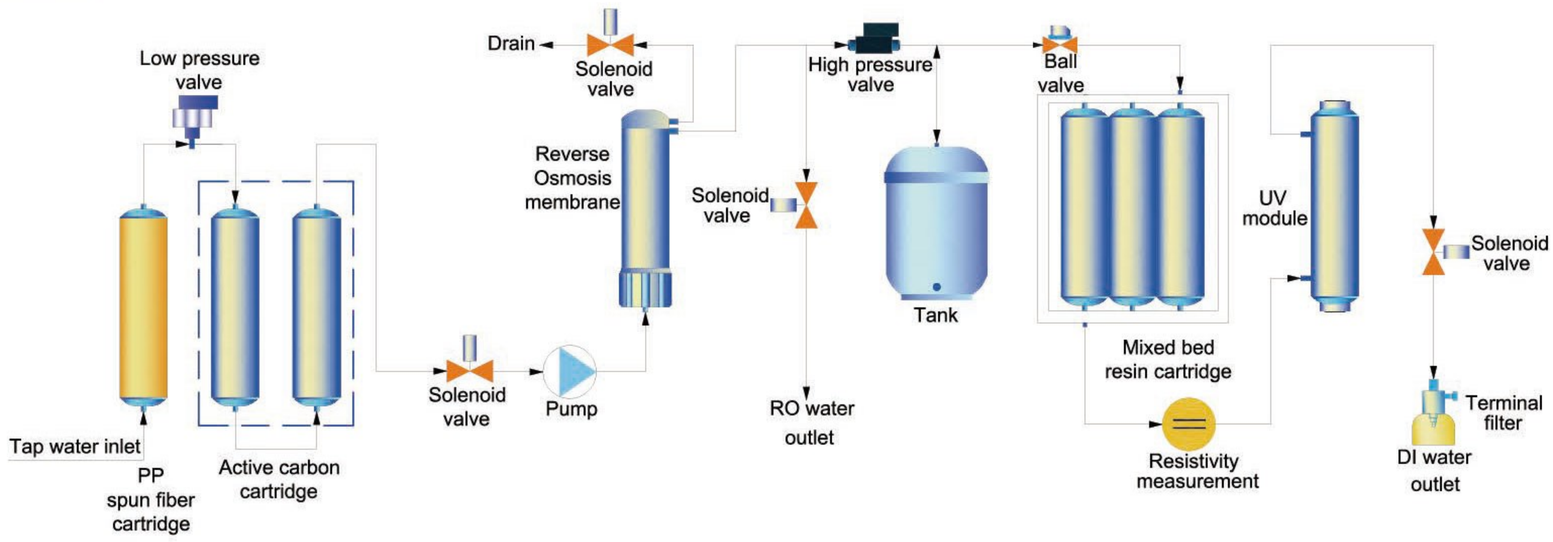
Smart-Q series

Deionized water system (Tap water inlet)

With injection molding process case, single stage RO system, 1 pump, portable TDS test pen and on-line resistivity monitor, Smart-Q series deionized water system is sub-economic choice of deionized water for general grade experiments.

With tap water inlet, its output ranges from 15 to 30 liters/hour. It can produce single stage RO water and deionized water. The single stage RO water's ion rejection rate is more than 97%, and the deionized water's resistivity is more than 15MΩ.cm, near to18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

Flow Schematic



Specifications

Model	Smart-Q15	Smart-Q15UT	Smart-Q30	Smart-Q30UT
Output(25℃)*	15 liters/hour		30 liters/hour	
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, deionized water			
Deionized water quality				
Resistivity(25℃)	15-18.2MΩ.cm			
Bacteria	N/A	<0.1cfu/ml	N/A	<0.1cfu/ml
Particle(>0.1μm)	N/A	<1/ml	N/A	<1/ml
RO water quality				
Ion rejection rate	97%-99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles and bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature:5-45℃,pressure:1.0-4.0Kgf/cm^2			
Dimension and weight	Length×Width×Height:410×220×420mm / Weight: about 18Kg			
Electrical requirements	AC100-240V, 50/60Hz			
Power	72W			
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank+ TDS/conductivity test pen			

Remarks:

*The value will be influenced by temperature and feed water's quality.

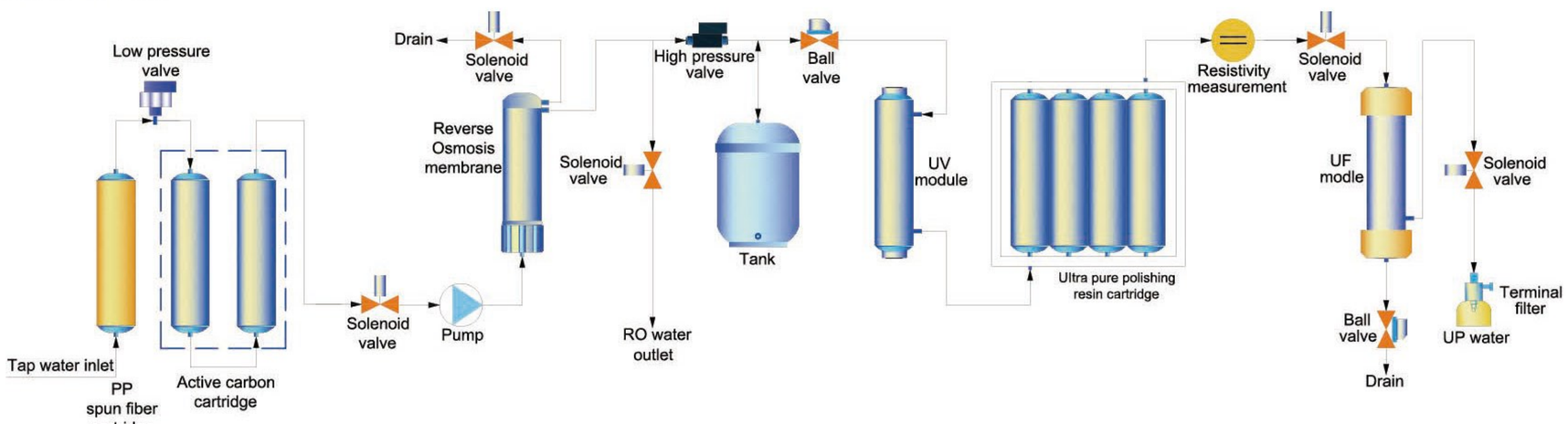
Smart-S series

Ultrapure water system (Tap water inlet)

With injection molding process case, single stage RO system, 1 pump, portable TDS test pen and on-line resistivity monitor, Smart-S series ultrapure water system is sub-economic choice of ultrapure water for high grade experiments.

With tap water inlet, its output ranges from 15 to 30 liters/hour. It can produce single stage RO water and ultrapure water. The single stage RO water's ion rejection rate is more than 97%, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow Schematic



Specifications

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Smart-S15	Smart-S15UF	Smart-S15UV	Smart-S15UVF
	Smart-S30	Smart-S30UF	Smart-S30UV	Smart-S30UVF
Output(25℃)	15series-15 liters/hour, 30 series-30 liters/hour			
Flow rate	Up to 2 liters/minute (with pressure tank)			
Pure water outlet	2: reverse osmosis water, ultrapure water			
Ultrapure water quality				
Resistivity(25℃)	18.2MΩ.cm			
TOC*	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.1cfu/ml			
Particle(>0.1μm)	<1/ml			
Endotoxin	N/A	< 0.001Eu/ml	N/A	< 0.001Eu/ml
RNases	N/A	<1pg/ml	N/A	<1pg/ml
DNases	N/A	<5pg/ml	N/A	<5pg/ml
RO water quality				
Ion rejection rate	97%-99% (new RO membrane)			
Organic rejection rate	>99%, when MW>200 Dalton			
Particles and bacteria rejection rate	>99%			
Feed water requirements	Tap water, temperature:5-45℃,pressure:1.0-4.0Kgf/cm^2			
Dimension and weight	Length×Width×Height:410×220×420mm / Weight: about 18Kg			
Electrical requirements	AC100-240V, 50/60Hz			
Power	72W			
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank+ TDS/conductivity test pen			

Remarks:

*The value will be influenced by temperature and feed water's quality.

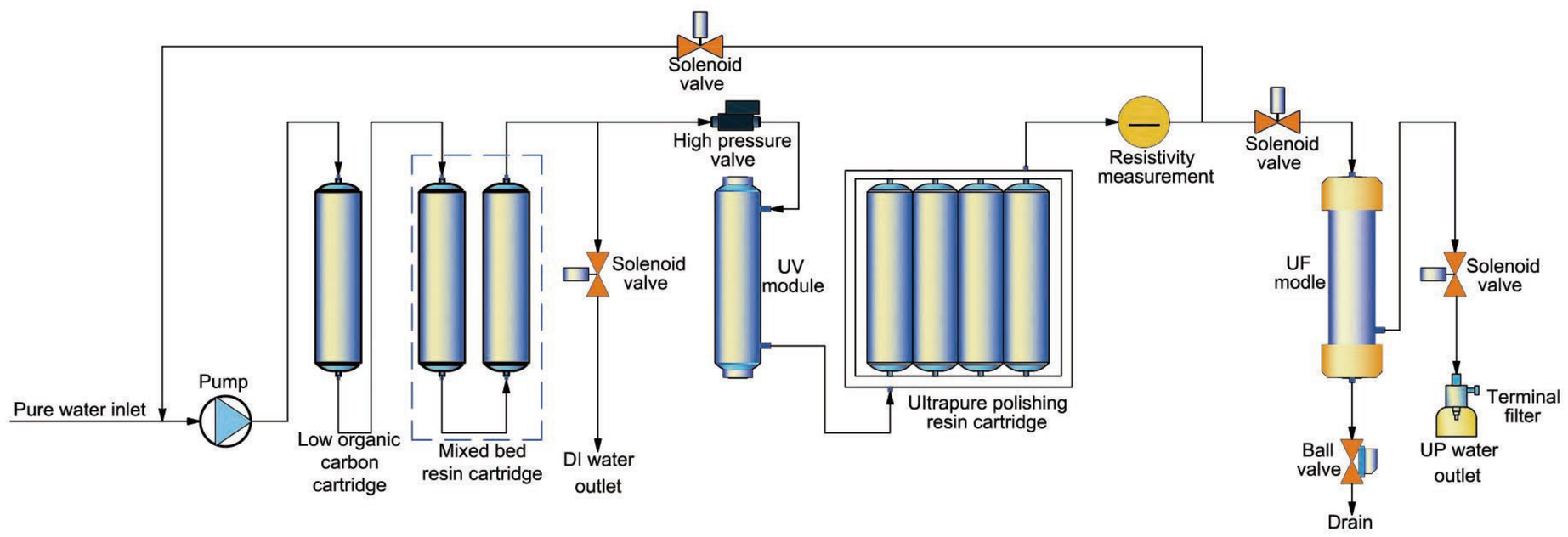
Smart-D series

Ultrapure water system (Distilled water inlet)

With injection molding process case, 1 pump, portable TDS test pen and on-line resistivity monitor, Smart-D series ultrapure water system is sub-economic choice of ultrapure water for high grade experiments.

With pure water or distilled water inlet, its output is up to 2 liters/minute. It can produce deionized water and ultrapure water. The deionized water's resistivity is above 5MΩ.cm, and the ultrapure water's resistivity absolutely reaches to 18.2MΩ.cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.

Flow Schematic



Specifications

Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing
	Smart-D	Smart-DUF	Smart-DUV	Smart-DUVF
Output(25℃)	Up to 2 liters/minute (less output with UF cartridge)			
Pure water outlet	2: deionized water, ultrapure water			
Ultrapure water quality				
Resistivity(25℃)	18.2MΩ.cm			
TOC*	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.1cfu/ml			
Particle(>0.1μm)	<1/ml			
Endotoxin	N/A	< 0.001Eu/ml	N/A	< 0.001Eu/ml
RNases	N/A	<1pg/ml	N/A	<1pg/ml
DNases	N/A	<5pg/ml	N/A	<5pg/ml
Deionized water quality				
Resistivity(25℃)	>5MΩ.cm			
Feed water requirements	RO water, distilled water, deionized water, 5-45℃,1atm*			
Dimension and weight	Length×Width×Height:410×220×420mm / Weight: about 16Kg			
Electrical requirements	AC100-240V, 50/60Hz			
Power	72W			
Standard configuration	Main body (Including 1 set of cartridge)+ TDS/conductivity test pen			

Remarks:

*The value will be influenced by temperature and feed water's quality.