



Master series water purification system

Master series is the sole leading brand of Chinese Good Instrument in lab water area. It is the most representative products in Chinese lab water market.

◆ Features And Advantages

LCD (resolution: 240×128, dimension: 106×57mm) controlling system, intuitively display the system running state and various parameters

3 way online water quality sensor, detect the quality of feed water, RO water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding

Cartridges replacing alarm function, based on time and water quality, show cartridges' used and residual life

Multiple alarm function: no feed water, full water, water quality's standard exceeding, and cartridge life ending

Auto self-flushing of RO membrane function, extend RO membrane's life

Auto running data storing function through RS232/USB communication port to computer for 1 year at least (optional)

System sanitizing procedure, achieve the disinfection of ultrapure water's tube and valve

System circulation function, achieve ultrapure water's circulation to keep top quality of ultrapure water

Level II password, protect all the parameters setting, and prohibit any unauthorized setting change

Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm)

External water tanks is optional to meet different need and assure ample water-supply

Whole plastic shell with high-strength, avoid rusting and keep clean, to meet GLP standard

3 door and easy-to-replacing cartridge design, convenient to maintain system and replace cartridges

Tube and adapter with NSF authorization and top quality, reduce TOC level and assure ultrapure water's quality

Optimized pretreatment (including PP fiber, KDF and active carbon cartridge), effectively protect RO membrane

RO module with DOW's membrane, ensure long life, stable operation and high desalinization rate

4 in 1 ultrapure cartridge (can be divided to 4 independent cartridge) with DOW's top polishing resin, ensure ultrapure water's quality up to 18.2 MΩ.cm, with the lowest TOC level

Double wavelength (185&254nm) ultraviolet lamp module, restrain bacteria's increase and reduce TOC

MWCO 5000D ultrafiltration module, effectively eliminate endotoxin, and suitable for precise cell cultivating and IVF

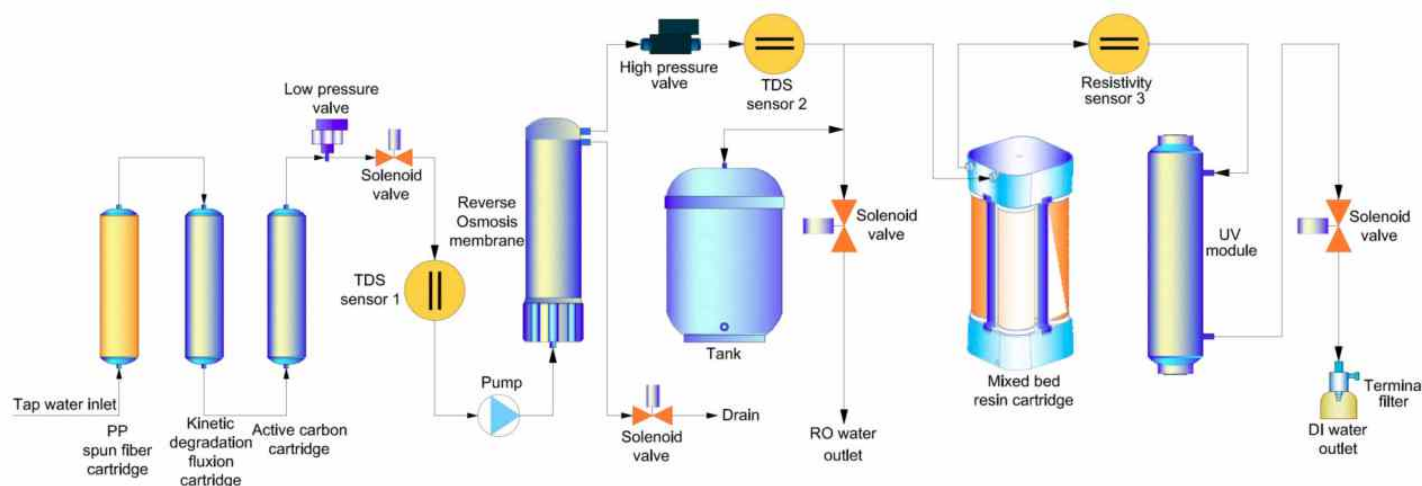
(0.45±0.1)μm double layer PES terminal disinfection filter, assure that terminal pure water is absolutely axenic.



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

- With LCD controlling system, 3 way water quality sensor, timing and quality dispensing, single stage RO system and 1 pump, Master-Q series deionized water system is superior 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 96%, and the deionized water's resistivity is more than 16MΩ.cm, near to 18.2MΩ.cm. It completely meets the requirements of general chemical or biological experiments for pure water.

◆ Flow Schematic



◆ Specifications

Model	Master-Q15	Master-Q15UT	Master-Q30	Master-Q30UT
Output(25°C)*	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	16-18.2MΩ.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	96%-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°C,pressure:1.0-4.0Kgf/cm ²
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 20Kg
Electrical requirements	AC110-240V, 50/60Hz
Power	120W
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank

Remarks:

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

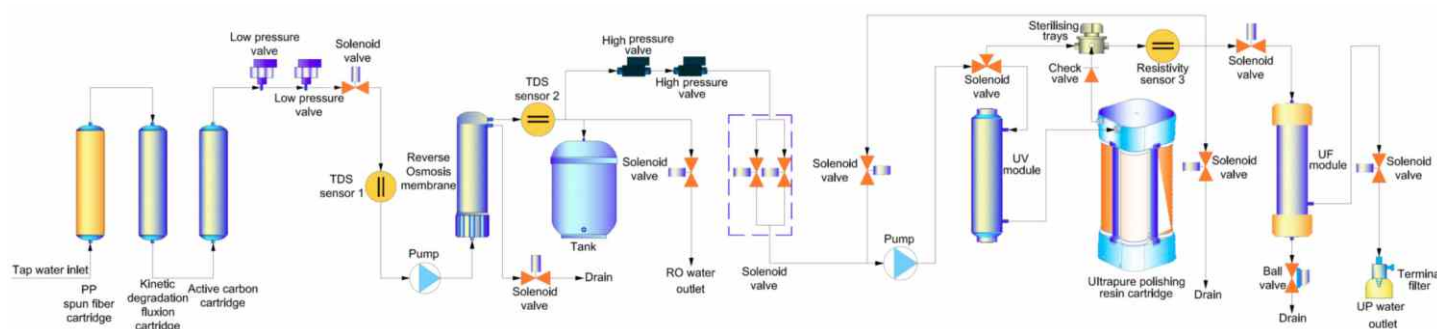




Master-S series ultrapure water system (Tap water inlet)

- With LCD controlling system, 3 way water quality sensor, timing and quality dispensing, single stage RO system and 2 pumps, Master-S series ultrapure water system is superior 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 96%, 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

	Standard	Eliminating endotoxin	Low TOC	Synthesizing
Model	Master S15	Master S15UF	Master S15UV	Master S15UVF
	Master S30	Master S30UF	Master S30UV	Master S30UVF
Output(25°C)*	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°C)	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	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/µl	N/A	<4pg/µl
RO water quality				
Ion rejection rate	96%-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°C,pressure:1.0-4.0Kgf/cm ²
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 20Kg
Electrical requirements	AC110-240V, 50/60Hz
Power	120W
Standard configuration	Main body (Including 1 set of cartridge)+15 liters pressure tank

Remarks:

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

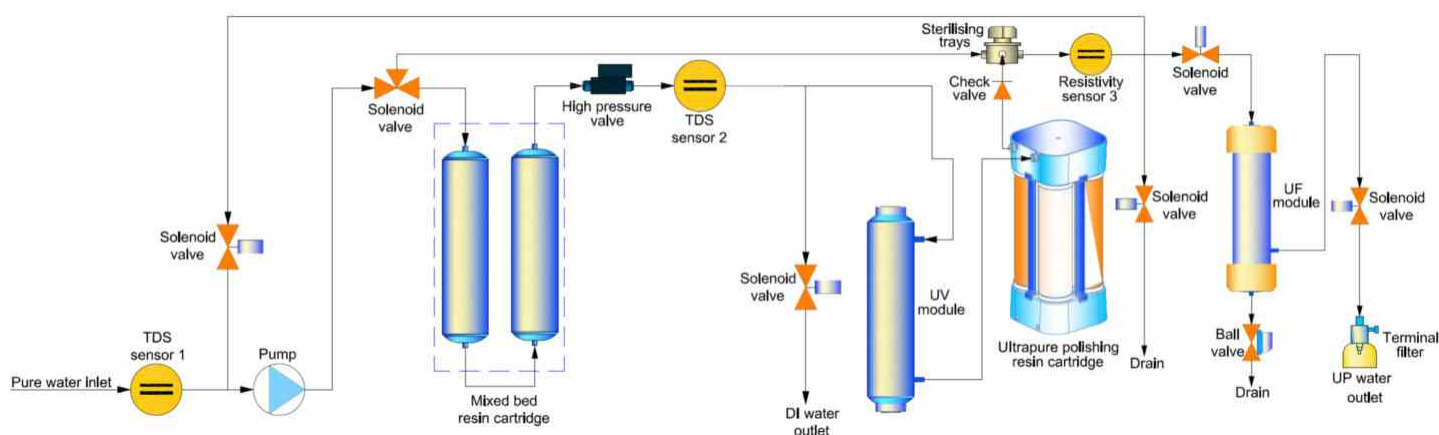




Master-D series ultrapure water system (Distilled water inlet)

- With LCD controlling system, 3 way water quality sensor, timing and quality dispensing and 1 pump, Master-D series ultrapure water system is superior 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
	Master D	Master DUF	Master DUV	Master DUVF
Output	Up to 2 liters/minute (less output with UF cartridge)			
Pure water outlet	2: deionized water, ultrapure water			
Ultrapure water quality				
Resistivity(25°C)	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	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/µl	N/A	<4pg/µl
Deionized water quality				
Resistivity(25°C)	>5MΩ.cm			



Feed water requirements	RO water, distilled water, deionized water, 5-45°C, 1atm*
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 18Kg
Electrical requirements	AC110-240V, 50/60Hz
Power	120W
Standard configuration	Main body (Including 1 set of cartridge)

Remarks:

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

