Master

water purification system



Models:

Master-015 / 30

Master-Q15 / 30UT

Master-S15 / 30

Master-S15 / 30UF

Mactor C15 / 2011/

Master-S15 / 30UVF

Master-D

Master-DUF

Master-DHV

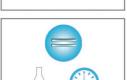
Master-DUVF

Master series, integrating micro-computer control system with LCD display, 3 way water quality sensors, timing and quality dispensing, single stage R0 system and 2 pumps (S-series, and Q / D-series just 1 pump), its output ranges from 15 to 30 liters/hour with tap water inlet. And with distilled water inlet, its output is up to 2 liters/minute.

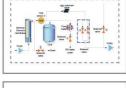
With tap water inlet, it can produce single stage RO water, deionized water and ultrapure water. And with distilled water inlet, it can produce deionized water and ultrapure water.

The single stage RO water's lon rejection rate is more than 97%. The deionized water's resistivity is above 16M Ω .cm, and the ultrapure water's resistivity absolutely reaches to 18.2M Ω .cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.











Micro-computer control system with LCD display

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

Comprehensive monitoring system

- 3 way online water quality sensors, detect the quality of feed water, R0 water, deionized water, or ultrapure water respectively. And warn once water quality's standard exceeding.
- Water dispensing function- timing and quality (time range: 1-99min, water quality range: 0.1-18.2MΩ.cm).water.

Easy-to-replacing cartridge

 Independent pretreatment design, and integrated subsequent purification unit design, with fast inserted adapters, easy to replace.

Single stage RO and 2 pumps system

- 1st pump, to achieve single stage RO system, easy to maintain.
- . 2nd pump, to achieve system sanitizing and circulation.

Whole plastic shell with high-strength

· Excellent ergonomic design, avoid rusting and keep clean, to meet GLP standard.

Features and Advantages

- 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 R0 membrane function, extend R0 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.
- External water tanks is optional to meet different need and assure ample water-supply.
- 3 doors 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 R0 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

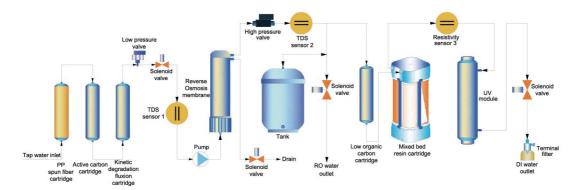
Deionized water system (Tap water inlet)

With LCD controlling system, 3 way water quality sensors, timing and quality dispensing, single stage R0 system and 1 pump, Master-Q series deionized water system is sub-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 R0 water and deionized water. The single stage R0 water's ion rejection rate is more than 97%, and the deionized water's resistivity is more than 16M Ω .cm, near to18.2M Ω .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					
Resistivit(25°C)	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					
lon rejection rate	97%-99% (new R0 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/cm²				
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 20Kg				
Electrical requirements	AC100-240V, 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

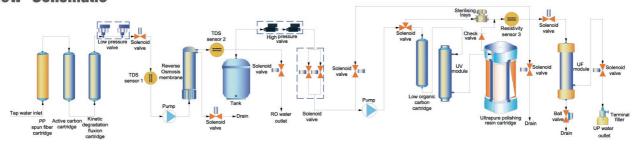
Ultrapure water system (Tap water inlet)

With LCD controlling system, 3 way water quality sensors, timing and quality dispensing, single stage R0 system and 2 pumps, Master-S series ultrapure water system is sub-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 R0 water and ultrapure water. The single stage R0 water's ion rejection rate is more than 97%, and the ultrapure water's resistivity absolutely reaches to 18.2M Ω .cm. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.



Flow Schematic



Specifications

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	Standard	Eliminating endotoxin	Low TOC	Synthesizing	
	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				
Utrapure 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	<1pg/ml	N/A	<1pg/ml	
DNases	N/A	<5pg/ml	N/A	<5pg/ml	
RO water quality					
Ion rejection rate	97%-99% (new R0 membrane)				
Organic rejection rate	>99%, when MW>200 Dalton				
Particles and bacteria rejection rate	>99%				
eed water requirements	Tap water, temperature:5-45°C,pressure:1.0-4.0Kgf/cm²				
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 20Kg				
Electrical requirements	AC100-240V, 50/60Hz				
ower	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

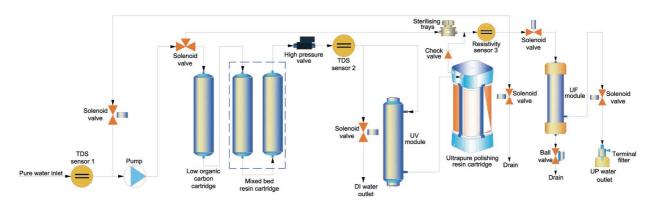
Ultrapure water system (Distilled water inlet)

With LCD controlling system, 3 way water quality sensors, timing and quality dispensing and 1 pump, Master-D series ultrapure water system is sub-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 $5M\Omega.cm$, and the ultrapure water's resistivity absolutely reaches to $18.2M\Omega.cm$. It completely meets the highest grade I standard of ASTM, CAP, CLSI, EP and USP.



Flow Schematic



Specifications

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Model	Standard	Eliminating endotoxin	Low TOC	Synthesizing	
	Master-D	Master-DUF	Master-DUV	Master-DUVF	
0utput(25°C)	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	<1pg/ml	N/A	<1pg/ml	
DNases	N/A	<5pg/ml	N/A	<5pg/ml	
Deionized water quality					
Resistivity(25°C)	>5MΩ.cm				
Feed water requirements	R0 water, distilled water, deionized water, 5-45°C,1atm*				
Dimension and weight	Length×Width×Height:500×360×540mm / Weight: about 18Kg				
Electrical requirements	AC100-240V, 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.