

# Ultra M Series Water Purification System

## NEW UPGRADE



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## Ultra Water Purification System

Ultra M series is high-end water purification system. And it is the sole leading brand of Indian Good Instrument In lab water area. It is the most representative products in Indian lab water market

ULTRA M has Q/S/D/R, total 4 sub-series.

Ultra MQ series produces deionized water and RO water. Its resistivity can reach to 16-18.2MΩ.cm. And its output is 15 or 30 liters/hour.

Ultra MS series produces ultrapure water and RO water. Its resistivity can reach to 18.2MΩ.cm. And its output is 15 or 30 liters/hour.

Ultra MD series produces ultrapure water and deionized water. Its resistivity can reach to 18.2MΩ.cm. And its most output is 2.0 liters/minute.

Ultra MR series is double stage reverse osmosis system. And its output is 15-20 liters/hour.

### FEATURES AND ADVANTAGES

- Automatic microcomputer controlling system, multi-menu operating, real-time animation mode display.
- Super-large LCD (Resolution:240x128, dimension:106x57mm) 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 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:0.1-18.2MΩ.cm).

- Water dispensing function- timing and quality (Time range:1-99min, water quality range:0.1-18.2MΩ.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 chvided to 4 independent cartridge), with DOW's nuclear-grade polishing resin, ensure ultrapure water's quality up to 18.2 MΩ).cm, with the lowest TOC dissolution.
- Double wavelength (190 & 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)pm double layer PES terminal disinfection filter, assure the quality absolutely axenic.
- Pre filtration Unit with 5-micron and 1-micron depth filter to arrest particulates matter in the feed tap water included noise free DC pump and RO membrane.

## ULTRA MS DEIONIZED WATER SYSTEM (Tap water inlet)



Ultra MS series is popular superior choice of high performance for general analysis pure water. It has 2 kinds of output, 15 or 30 liters/hour. And the resistivity, reaching to 16-18.2MΩ.cm, is above of the grade I standard of GB6682-2008. It also meets the most requirements of chemical and biological experiments' pure water.

## APPLICATIONS

- Feed of ultrapure water system
- Chemical and qualitative analysis
- Microbiological analysis
- Spectrum measurement
- Feed of autodave sterilizer, biochemical analyzer, immunoassay analyzer, constant temperature and humidity chamber, salt spray test chamber, dampening machine and etc.
- Glassware wash
- Wer analysis and universal HPLC
- Samp diubon and reagent preparation
- Disposing of buffer, medium

## SPECIFICATIONS

Model	Ultra MS-3015	Ultra MS-3015UT	Ultra MS-3030	Ultra MS-3030UT
Feed water requirements	Tap water.TDS<200 ppm, 5-45°C, 1.0-4.0Kgf/cm² (Extra pretreatmen filter is recommended, if TDS>200ppm)			
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 +UV+TF
Deionized water quality:				
Resistivity	>16-18.2MΩ.cm			
Heavy metal ion	<0.1ppb			
Bacteria	N/A	<0.1cfu/ml	N/A	<0.1cfu/ml
Particle(>0.2µm)	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%			
Output (25°C)	15 liters/hour		30 liters/hour	
Flow rate	2.0 liters/minute (with pressure tank)			
Pure water outlet	2: RO water, deionized water			
Dimension/Weight	LengthxwidthxHeight:500x360x540mm/ Weight: about 22Kg			
Electric requirements	AC110-220V, 50/60Hz, 120W			
Standard configuration	Main body (Including 1 set of cartridges)+ 15 liters tank+ accessory bag			

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, 25oC, 50psl and 15% recovery rate.

## ULTRA MQ ULTRAPURE WATER SYSTEM (Tap water inlet)



Ultra MQ series is popular superior choice of high performance for high grade experiments ultrapure water. with tap water inlet, it has 2 kinds of output, 15 or 30 liters/hour. and the resistivity, absolutely reaching to 18.2M.cm, completely meets the highest grade I standard of GB6682-2008, ASTM, CAP, CLSI, EP and USP.

### APPLICATIONS

- HPLC, GC-MS, ICP-AES
- Organic and inorganic trace analysis
- Cell culture
- ICP-MS, AAS, GF-AAS
- Molecular biology, microbiology
- Cell cultivation medium preparation
- TOC analysis, IC
- PCR analysis
- Monoclonal antibody production
- Electrochemistry
- DNA order analysis
- Gel electrophoresis analysis

## SPECIFICATIONS

Model	Basic	Eliminating endotoxin	Low TOC	Synthesizing
	Ultra MQ-3015	Ultra MQ-3015UF	Ultra MQ-3015UV	Ultra MQ-3015UVF
	Ultra MQ-3030	Ultra MQ-3030UF	Ultra MQ-3030UV	Ultra MQ-3030UVF
Feed water requirements	Tap water.TDS<200 ppm, 5-45°C, 1.0-4.0Kgf/cm <sup>2</sup> (Extra pretreatmen filter is recommended, if TDS>200ppm)			
Flow procedure	PF+KDF+AC+RO+AC+DI+TF	PF+KDF+AC+RO+AC+DI+UV+TF	PF+KDF+AC+RO+UV+DI+TF	PF+KDF+AC+RO+AC+DI+UV+UF
<b>Ultrapure water quality:</b>				
Resistivity	>18.2MΩ.cm at 25°C			
Heavy metal ion	<0.1ppb			
TOC	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.1cfu/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
Particle(>0.2μm)	<1/ml			
RNases	N/A	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/ml	N/A	<4pg/ml
<b>RO water quality:</b>				
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)	S15:15 liters/hour,S40-50liters/hour ("Zero" TDS)			
Flow rate	2.0 liters/minute (with pressure tank)			
Pure water outlet	2: RO water, ultrapure water			
Dimension/Weight	LengthxwidthxHeight:500x360x540mm/ Weight: about 25Kg			
Electric requirements	AC110-220V, 50/60Hz, 120W			
Standard configuration	Pre filtration Unit with 5-micron, 1 set of cartridges) and 1-micron depth filter to arrest particulates matter in the feed tap water included noise free DC pump and RO membrane +100 liters tank+ accessory			

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, UF: Ultra Filtration.

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, 50psl and 15% recovery rate.

## ULTRA MD UP WATER SYSTEM (Distilled water inlet)



Ultra MD series is popular superior choice of high performance for high grade experiments ultrapure water. with distilled or otherpure water inlet the most output is 2 liters/hour. and the resistivity, absolutely reaching to 18.2M.cm, completely meets the highest grade I standard of GB6682-2008, ASTM, CAP, CLSI, EP and USP.

### APPLICATIONS

- HPLC, GC-MS, ICP-AES
- Organic and inorganic trace analysis
- Cell culture
- ICP-MS, AAS, GF-AAS
- Molecular biology, microbiology
- Cell and cultivation medium preparation
- TOC analysis, IC
- PCR analysis
- Monoclonal antibody production
- Electrochemistry
- DNA order analysis
- Gel electrophoresis analysis

## SPECIFICATIONS

Model	Basic	Eliminating endotoxin	Low TOC	Synthesizing
	ULTRA MD	Ultra MD UF	Ultra MD UV	Ultra MD UVF
Feed water requirements	RO water, distilled water, deionized water.5-45°C, 1atm			
Flow procedure	AC+DI+TF	AC+DI+UF+TF	UV+AC+DI+TF	UV+AC+DI+UF+TF
Ultrapure water quality:				
Resistivity	>18.2MΩ.cm			
Heavy metal ion	<0.1ppb			
TOC	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.1cfu/ml			
Endotoxin	N/A	<0.001Eu/ml	N/A	<0.001Eu/ml
Particle(>0.2μm)	<1/ml			
RNases	N/A	<0.001ng/ml	N/A	<0.001ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
Deionized water quality:				
Resistivity	>5MΩ.cm			
Output (25°C)	Utmost up to 2.0 liters/minute(less output with UF cartridge)			
Pure water outlet	2: deionized water, ultrapure, ultrapure water			
Dimension/Weight	LengthxwidthxHeight:500x360x540mm/ Weight: about 20Kg			
Electric requirements	AC110-220V, 50/60Hz, 120W			
Standard configuration	Main body (Including 1 set of cartridges)+ 15 liters tank+ accessory bag			

The feed water quality will influence the pure water's quality and cartridges' life-span.

AC:active carbon, DI:ion exchnage, UV: ultraviolet, UF: ultrafiltration, TF: terminal microfiltration.

Value of number will be influenced by temperature and feed water quality.

The output will decrease with terminal filter or UF cartridge.



## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing	:HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
Trainings	:We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.
AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
Validations	:Validations :We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
Instruments	:Instruments :We offer instruments / Renting Services Modules like pumps, detector etc. on Rent.



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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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