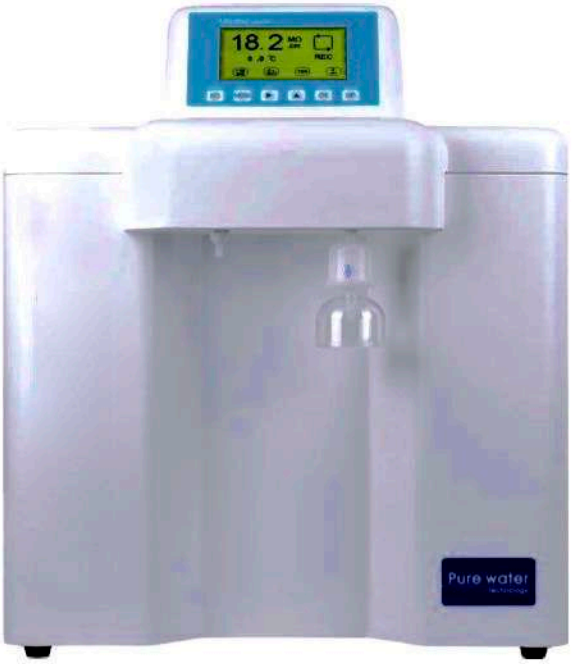
Analytical®
Technologies Limited

ULTRA M SERIES WATER PURIFICATION SYSTEM



NEW UPGRADE

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.

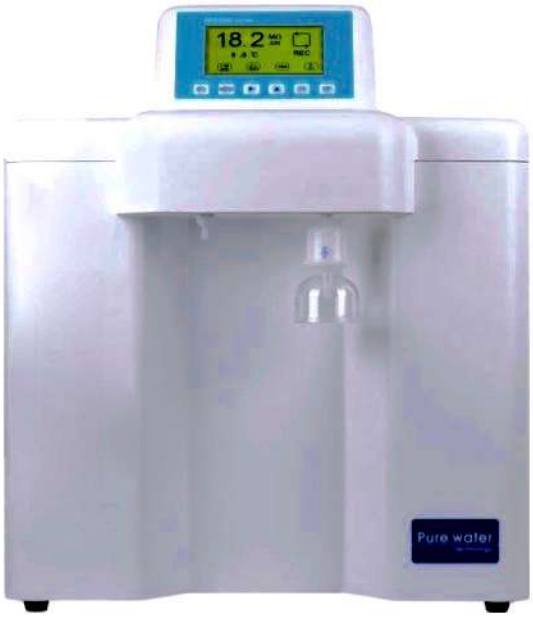
Ultra MD series produces ultrapure water and deionized water. Its resistivity can reach to 18.2MΩ.cm. And its most output is 2.0 liters/minute.

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: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 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).
- 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 MΩ.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.

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
- Glassware washing
- Microbiological analysis
- Sample dilution and reagent preparation
- Chemical and qualitative analysis
- Water analysis and universal HPLC
- Spectrum measurement
- Disposing of buffer, medium
- Feed of autoclave sterilizer, biochemical analyzer, immunoassay analyzer, constant temperature and humidity chamber, salt spray test chamber, dampening machine and etc.

Specifications:

Model	Ultra MS-3015	Ultra MS-3015UT	Ultra MS-3030	Ultra MS-3030UT
Feed water requirements*	Tap water: TDS<200 ppm, 5-45℃, 1.0-4.0Kgf/cm^2 (Extra pretreatment 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℃)***	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	Length×Width×Height:500×360×540mm/ 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, 25°C, 50psi and 15% recovery rate.

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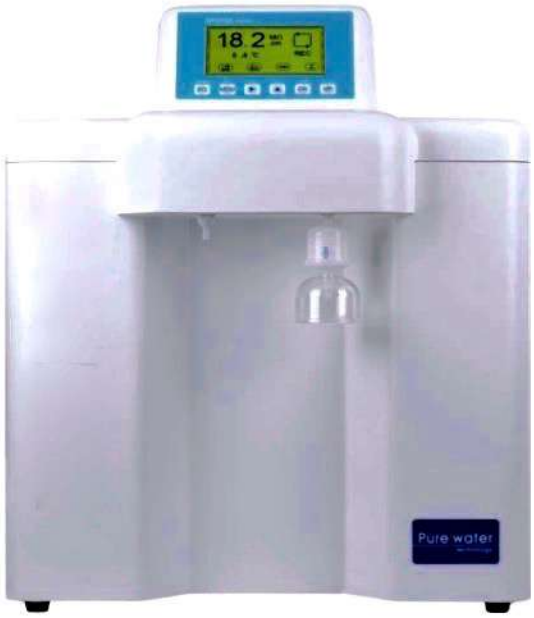
ULTRA MQ ULTRAPURE WATER SYSTEM (Tap water inlet)



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 18.2MΩ.cm, completely meets the highest grade I standard of GB6682-2008, ASTM, CAP, CLSI, EP and USP.

Application:

- HPLC, GC-MS, ICP-AES
- Organic and inorgnic 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 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℃, 1.0-4.0Kgf/cm^2 (Extra pretreatment filter is recommended, if TDS>200ppm)			
Flow procedure**	PF+KDF+AC+RO+DI+TF	PF+KDF+AC+RO+DI+UF+TF	PF+KDF+AC+RO+UV+DI+TF	PF+KDF+AC+RO+UV+DI+UF+TF
Ultrapure water quality:				
Resistivity(25℃)	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	<0.01ng/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%			
Output(25℃)**	**S15:**15 liters/hour, **S30:**30 liters/hour			
Flow rate	2.0 liters/minute(with pressure tank)			
Pure water outlet	2:RO water, ultrapure water			
Dimension/Weight	Length×Width×Height:500×360×540mm/ Weight: about 25Kg			
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, UF:ultrafiltration, 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.

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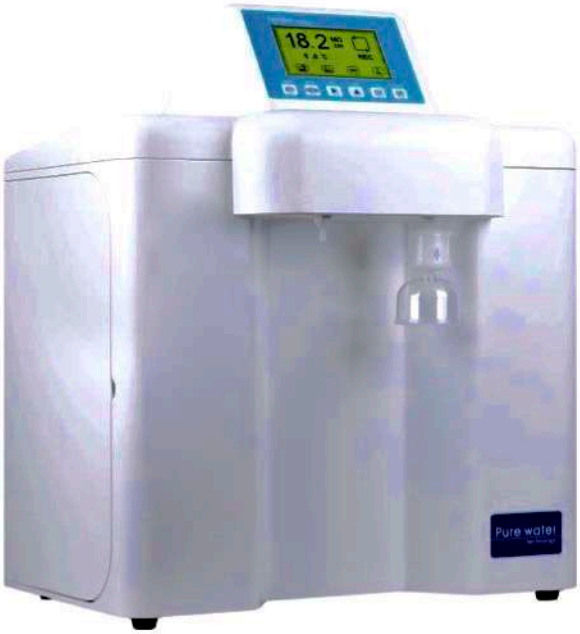
ULTRA MD UP Water System (Distilled water inlet)



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

Application:

- HPLC, GC-MS, ICP-AES
- Organic and inorgnic 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℃,1atm*			
Flow procedure**	AC+DI+TF	AC+DI+UF+TF	UV+AC+DI+TF	UV+AC+DI+UF+TF
Ultrapure water quality:				
Resistivity(25℃)	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	<0.01ng/ml	N/A	<0.01ng/ml
DNases	N/A	<4pg/μl	N/A	<4pg/μl
Deionized water quality:				
Resistivity	>5MΩ.cm			
Output(25℃)**	Utmost up to 2.0 liters/minute(less output with UF cartridge)			
Pure water outlet	2:deionized water, ultrapure water			
Dimension/Weight	Length×Width×Height:500×360×540mm/ Weight: about 20Kg			
Electric requirements	AC110-220V, 50/60Hz, 120W			
Standard configuration	Main body (Including 1 set of cartridges)+ accessory bag			

* The feed water quality will influence the pure water's quality and cartridges' life-span.
** AC:active carbon, DI:ion exchange, UV:ultraviolet, UF:ultrafiltration, TF:terminal microfiltration.
*** Value of number will be influenced by feed water quality.
**** The output will decrease with terminal filter or UF cartridge.

About Analytical Technologies

Analytical Technologies is synonymous for offering Technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO : 9001 Certified Company engaged in Designing, Manufacturing, Marketing & Providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers.

Our Products And Technologies

Intelligent HPLC / BioLC™ / nanoLC™

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Preparative Process HPLC

Production HPLC

Amino Acid Analyzer

Ion Chromatograph

Gas Chromatograph

Flash Chromatography

FTIR Spectrometer

Spectro UV 2080+ Double Beam

Optical Emission Spectrometer

DSC / TGA

HEMA 3210 Fully-automatic Hematology Analyzer

PCR/ Gradient PCR/RT PCR

NOVA 2100 Plus Auto Chemistry Analyzer

URINOVA 2800 Urine Analyzer

Fully Automated CLIA

Electrolyte Analyzer

Water Purification System

Elisa / Microplate Reader - Washer

HPLC Consumables

Bio Chemistry Reagents Rapid Diagnostic kits

Urine Strips

Hematology Reagents

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