

Water Purification System Ultra Series



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



Model	Ultra Series								
output (L/H)	5/10/20/40/60/100	10/20/40/60/100	5/10/20/40/60/100	10/20/40/60/100	60	10/20/40/60	20/40/60/100	250/500/1000/1500/2000	500/1000/5000/10000 (L/D)
ROConductivity (us/cm0)	<5	2-10	2-10	2-10	<0.1	1-5	<0.1	<15	
source water	TDS<300	TDS<200	TDS<200	TDS<200	RO/Distilled water /deionized water	TDS<1000	TDS<200	TDS<200	TDS<300
water quality	1/111	1/111	1/111	1/11/111	1	1/111	1/11	RO	
touchscreen	yes	yes	yes	yes	yes	yes	yes	yes	yes
EU	no	no	no	no	<=0.001 EU/mol	no	no	no	no

Ultra Series

Super trace of ultra-pure water machine



Features & Advantages

- Source water four level to strengthen the purification device(PP+AC+soften + Ultrafiltration)
- The United States original Dow RO reverse osmosis membrane desalination rate as high as 98%
- National first pretreatment system automatic double backwash function
- Touch screen and ARM series microcontroller microcomputer control, with automatic control function
- The system has three water quality test display function, source water ,pure water ,ultra-pure water monitoring
- Imported dual-wavelength UV digestion
- Terminal microfiltration

Ultra Series

Micro analysis of ultra-pure water machine



Features & Advantages

- Reverse osmosis membrane automatic washing, boot 18 seconds and after the completion of the system automatically flush the system function
- RO pure water resistivity on-line monitoring function
- RO ultra pure water resistivity on-line monitoring function
- UP ultra-pure water system internal circulation function, to extend the service life of supplies
- UP ultra pure water discharge function
- With source water indication, flushing instructions, water full indication, pure water standby indication, system water shortage indication function
- 0.2um imported polyether sulfone composite filter end sterilization filter to ensure water quality sterile

Basic Technical Parameters

Inlet water	Hydraulic pressure: 1-5 kg/cm ² , water temperature 10-45°C, TDS <300ppm
Working power	Voltage: AC220V/50HZ, Power:30W-100W
Size	Bench type: 420*600*620mm Floor type: 580*680*1100mm
Weight (kg)	Bench type: 30-35kg Floor type:45-55kg
Noise	≤40 (dba)
Relative humidity	≤85%RH, avoiding corrosive gas
Water tank	Bench type: standard configuration 3.8G Floor type: standard configuration 11G
Terminal micro	0.22μm Millipore filter

Technical Index

Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Water yield	5/10/20 L/H		20/40/100 L/H	
Effluent velocity	1.5-1.8L/MIN (When storage tank working)			
RO water quality (μs/cm)	Conductivity <5s/cm (Online monitoring), Pollutant removal rate 99.5%			
UP water quality (MΩ.cm)	Resistivity 18.25MΩ.cm (Online monitoring) Micro particles <1pc/ml Microorganism <1cfu/ml Heavy metal ion <0.1ppb TOC <5ppb Soluble silicon (SiO2) <0.01mg/L The absorbance (254nm, 1cm <0.001) The oxidizable substance (count as O, mg/L): <0.08 The cationic content is less than 0.1ppb (Fe <0.005, Cu <0.005,K <0.02, Al <0.005, Zn<0.02, Cr <0.005, Na < 0.01) The anion content is less than 0.1ppb (Cl <0.01ppb, No <0.02ppb, No<0.02ppb, So <0.01ppb)			
Application	1. ion chromatography (IC) / atomic emission (AES) / gas / liquid chromatography (HPLC) / atomic absorption (AA) / 2. Qualitative analysis (MC) / electrophoresis /electrolysis / gel analysis / plasma emission spectrometry (ICP); 3. animal and plant cell culture, electrochemical research, gene research, test tube baby test items 4. scientific research / biochemical analysisi and other high requirements of the experimental project			

Ultra Series

Conventional analysis of ultra-pure water machine



Features & Advantages

- Pretreatment system to remove the source of water particles, iron, manganese, chlorine, calcium, magnesium ions and adsorption of organic matter, odor, etc.
- Source water four level to strengthen the purification device (PP+AC+ soften + Ultrafiltration).
- The United States original Dow RO reverse osmosis membrane desalination rate as high as 98%.
- With self-test, water protection alarm, full water automatic shutdown, ultra-low voltage protection and other functions.
- UP ultra pure water resistivity on-line monitoring function with automatic temperature compensation function.

Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Inlet water	Total dissolved solids content TDS < 200ppm, hydraulic pressure 1.0-50kg/cm ² , Optimum 25°C operating temperature			
Water yield	5/10/20L/H	20/40/60/100L/H	5/10/20L/H	20/40/60/100L/H
Effluent velocity	1.5-1.8MIN (When storage tank working)			
RO water quality (μs/cm)	Conductivity <2-10μs/cm		Conductivity <2-10μs/cm (Online monitoring)	
UP water Effluent quality (MΩ.cm)	Resistivity 17-18.25MΩ.cm (Online monitoring) heavy metal ion <0.1ppb Micro particles <1pc/ml Microorganism <1cfu/ml		Resistivity 18.25MΩ.cm (Online monitoring) heavy metal ion <0.1ppb Micro particles <1pc/ml Microorganism <1cfu/ml	
Size (mm)	380*500*590	380*580*550	380*500*590	380*580*550
Weight (kg)	35kg	70kg	35kg	70kg
Power (w)	30W-50W	50W-100W	30W-50W	50W-100W
Application	1, vessel washing, student experiment 2, the preparation of chemical reagents; 3, buffer, cleaning machine, high pressure sterilization pot; 4, conventional physical and chemical detection; 5, biochemical analysis 6, physical and chemical testing and other conventional qualitative and quantitative analysis;		1, microbial medium 2, atomic absorption (AA); 3, atomic emission (AES); 4, high performance liquid chromatography (HPLC); 5, ion chromatography (IC); 6, mass spectrometry (MC); 7, plasma emission spectroscopy (ICP) 8, analysis of high precision liquid chromatography (HPLC) and other instrumental analysis of water.	
External pressure tank	A. standard configuration 3.8G	A. standard configuration 11	A. standard configuration 3.8G	A. standard configuration 11

Ultra Series

Reverse osmosis type water filter

Features & Advantages

- Source water four level to strengthen the purification device(PP+AC+ soften + Ultrafiltration)
- The United States original Dow RO reverse osmosis membrane desalination rate as high as 98%
- Pretreatment system to remove the source of water particles, iron, manganese, chlorine, calcium, magnesium ions and adsorption of organic matter, odor, etc.
- With self-test, water protection alarm, full water automatic shutdown, ultra-low voltage protection and other functions
- Reverse osmosis membrane automatic washing, boot 18 seconds and after the completion of the system automatically flush the system function
- Comes with pretreatment, RO membrane, ultrapurified columns and other accessories to replace the automatic tips



Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Inlet water	Total dissolved solids content TDS < 200ppm, hydraulic pressure 1.0-5.0kg/cm ² , Optimum 25°C operating temperature			
Water yield	5/10/20L/H	20/40/60/100L/H	5/10/20L/H	20/40/60/100L/H
Effluent velocity	1.5-1.8MIN (When storage tank working)			
RO water quality (μs/cm)	Conductivity <2-10μs/cm (Online monitoring)		Conductivity <2-10μs/cm	
UP water Effluent quality (MΩ.cm)			Resistivity 8-10MΩ.cm (Online monitoring) heavy metal ion <0.1ppb Micro particles <1pc/ml Microorganism <1cfu/ml	
Size (mm)	380*500*590	380*580*550	380*500*590	380*580*550
Weight (kg)	35kg	70kg	35kg	70kg
Power (w)	30W-50W	50W-100W	30W-50W	50W-100W
Application	1, vessel washing, student experiment 2, the preparation of chemical reagents; 3, buffer, cleaning machine, high pressure sterilization pot; 4, conventional physical and chemical detection; 5, biochemical analysis 6, physical and chemical testing and other conventional qualitative and quantitative analysis;		1, vessel washing, student experiment 2, the preparation of chemical reagents; 3, buffer, cleaning machine, high pressure sterilization pot; 4, conventional physical and chemical detection; 5, biochemical analysis 6, physical and chemical testing and other conventional qualitative and quantitative analysis;	
External pressure tank	A. standard configuration 3.2G	A. standard configuration 11	A. standard configuration 3.2G	A. standard configuration 11

Ultra Series

Pure water for the source of ultra-pure water machine



Features & Advantages

- UP ultra pure water resistivity on-line monitoring function with automatic temperature compensation function
- Using more advanced, user-friendly membrane keys to take water
- Comes with pretreatment, RO membrane, ultrapurified columns and other accessories to replace the automatic tips
- To 0 water pressure, automatic water absorption cycle system
- Water conductivity on-line monitoring function (conductivity <20us / cm)

Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Inlet water	Distill water/pure water/ deionized water (Conductivity <20 μ s/ cm)			
Water yield	1.0-1.5L/Min			
UP water quality	Resistivity 18-1.5M Ω .cm Micro particles <1pc/ml Microorganism <1cfu/ml			
Total organic carbon	(TOC) <20ppb	(TOC) <20ppb	(TOC) <5ppb	(TOC) <5ppb
Endotoxin	-	≤ 0.001 EU/ml	-	≤ 0.001 EU/ml
Size (mm)	380*500*590			
Weight (kg)	35kg			
Power (w)	30W-50W			
Application	1, biochemical analysis of chemical reagent; 2, buffer conventional physical and chemical detection; 3, physical and chemical testing and other conventional qualitative and quantitative analysis 4, atomic absorption (AA); 5, atomic emission (AES); 6, high performance liquid chromatography (HPLC); 7, ion chromatography (IC); 8, mass spectrometry (MC); 9, plasma emission spectroscopy (ICP) and other instrumental analysis			
External pressure tank	A. standard configuration 40L			

Ultra Series

Eliminate endotoxin ultra water machine



Features & Advantages

- Pretreatment system to remove the source of water particles, iron, manganese, chlorine, calcium, magnesium ions and adsorption of organic matter, odor, etc.
- RO reverse osmosis membrane desalination rate as high as 98%
National first pretreatment system automatic double backwash function
Reverse osmosis membrane automatic washing, boot 18 seconds
- and after the completion of the system automatically flush the system function
- With source water indication, flushing instructions, water full indication, pure water standby indication, system water shortage indication function
- Comes with pretreatment, RO membrane, ultra-purified columns and other accessories to replace the automatic tips

Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Inlet water	Total dissolved solids content TDS<1000ppm, hydraulic pressure 1.0-5.0kg/cm ² , Optimum 25°C operating temperature.			
Water yield	5/10/20L/H	20/40/60/100L/H	5/10/20L/H	20/40/60/100L/H
Effluent velocity	1.5-1.8L/MIN (When Water storage tank working)			
Class A RO water quality	< Source water conductivity* 2%			
Class two RO water quality	<1-5μs/cm (Online monitoring)		<1-5μs/cm (Online monitoring)	
UP water Effluent quality μs/cm			resistivity 18.25M.cm (Online monitoring) heavy metal ion <0.1ppb Micro particle <1pc/ml Microorganism <1cfu/ml	
Size (mm)	380*500*590	380*580*950	380*580*950	380*580*950
Weight (kg)	35kg	70kg	35kg	70kg
Power (w)	30W-50W	50W-100W	30W-50W	50W-100W

Application	1,vessel washing, student experiment 2, the preparation of chemical reagents; 3, buffer, cleaning machine, high pressure sterilization pot; 4,conventional physical and chemical detection; 5, biochemical analysis 6, physical and chemical testing and other conventional qualitative and quintitative analysis;		1,vessel washing, student experiment 2, the preparation of chemical reagents; 3, buffer, cleaning machine, high pressure sterilization pot; 4,conventional physical and chemical detection; 5, biochemical analysis 6, physical and chemical testing and other conventional qualitative and quintitative analysis;	
External pressure tank	A. standard configuration 3.2G	A. standard configuration 11	A. standard configuration 3.2G	A. standard configuration 11

Ordering instuctions

- This water production is according to the rated water of RO Membrane with water temperature 25°C, When the water temperature is reduced by 1 DEG , the water yield of the RO film is decreased by about 3%, when the water temperature is below the temperature of 5 DEG, the RO film will stop producing water, and when the user selects the oder, the water temperature in the area should be taken into account
- The area with poor Source quality (TDS>200ppm), RO pure water conductivity may be reduce to more than 10μ/cm; the users require higher quality proposed matching ultra series (reverse osmosis) or pre water system (multi medium filter + activated carbon filter + water sofener)

Ultra Series

Biochemical analysis of ultra-pure water machine



Features & Advantages

- Pretreatment system to remove the source of water particles, iron, manganese, chlorine, calcium, magnesium ions and adsorption of organic matter, odor, etc.
- The United States original Dow RO reverse osmosis membrane desalination rate as high as 98%
- The machine adopts imported booster pump, imported reverse osmosis membrane, imported parts to ensure reliable machine performance, reduce maintenance and repair costs
- The host is in front of ultra-pure water with water function, user-friendly equipment for other users demand
- Biochemical water conductivity on-line monitoring, with automatic temperature compensation
- With source water indication, flushing instructions, water full indication, pure water standby indication, system water shortage indication function

Model	Ultra Series			
	Bench type	Floor type	Bench type	Floor type
Source water	Tao Water			
Elctrical requirements	AC 220V/50HZ			
Power	50-100W			
Output	20/40/60/100 liters/hour			
Desalination rate	98%			
II grade water physical and chemical analysis				
Conductivity	<0.1μs/cm			
Resistivity	≥10MΩ.cm			
Particle	>10 ml			
Organic rejection rate	≥99%			
Ultrapure water quality II grade				
Resistivity	<0.1μs/cm			
Metal ion	<10 ppb			
TOC	<1/ml			
Particle	<1/ml			
Microbe	<1cfu/ml			
Endotoxin	≤0.001EU/ml			
Dimension	380x580x950mm			
Weight (kg)	35-60kg			
Application	Auto biochemical analyzer HPLC AES Molecular biology microbiology		Auto biochemical analyzer Conventional physical and chemical analysis Conventional qualitative and quantitative analysis	
Standard configuration	Main body (Including 1 set of cartridge)+ pure tank (20/40/60/100 liters).			

Pure water machine for disinfection supply room



Features & Advantages

- Automatic control, easy to operate
- The system adopts integrated advanced process design, the key components use international quality components
- Can be directly used with disinfection cleaning equipment docking

Model	Ultra Series				
	Bench type	Floor type	Bench type	Floor type	
Inlet water	Total dissolved solids content TDS<1000ppm, hydraulic pressure 1.0-5.0kg/cm2, Optimum 25°C operating temperature.				
Water yield	250L/H	500L/H	1000L/H	1500L/H	2000L/H
Power	1.1-1.5	500L/H	2.8-3.5	4.5-9.5	5.5-10
Water Effluent quality	Conductivity <15μs/cm				
Size (mm)	800*580*800		1500*550*800		1500*800*1200
Weight (kg)	<100kg		<400kg		<800kg
Application	Small and medium-sized hospital disinfection supply room (it can be used with Various type of cleaning machine, cleaning, high pressure sterilization equipment), Hospital pharmacy, Dispensing water			Large hospital disinfection supply room (it can be used with Various types of cleaning machines, cleaning vehicles, ultrasonic cleaning, high pressure sterilization equipment), Hospital pharmacy, Dispensing water	
Tank	Standard configuration 250L	Standard configuration 500L	Standard configuration 500L	Standard configuration 2000L	

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

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.

Reach us @



 **Analytical**[®]
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W: www.ais-india.com
www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide

Note : Company reserves rights to add/delete/modify the contents /technical specifications of the catalogue without prior notice.