

Technical Specification

Model	Standard	Eliminating Endotoxin	Low TOC	Synthesizing
	UltraPure-U	UltraPure-UF	UltraPure-UV	UltraPure-UVF
Output	10L/hr, 20L/hr, 30L/hr			
Flow Rate	Up to 2 liters/min with pressure tank			
Water Outlet	RO water, ultrapure water			
Ultrapure Water Quality: ASTM/CAP/CLSI/EP/USP Grade I water				
Resistivity (25°C)	18.25MΩ.cm (Online monitoring)			
Heavy Metal Ion	< 0.01 ppb			
TOC*	<10ppb	<10ppb	<3ppb	<3ppb
Bacteria	<0.01cfu/ml			
Particle(>0.1μm)	<1cfu/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				
Conductivity	≤10μS/cm			
Ion Rejection Rate	97%~99%			
Organic Rejection Rate	>99%, when MW>200 Dalton			
Particles and bacteria rejection rate	>99%, when MW>200 Dalton			
Feed Water Req.	Tap water TDS<200ppm, temperature: 5~45°C, pressure: 1.0~4.0Kgf/cm2			
Power Supply	AC100~240V, 50/60Hz			
Overall Dimension	450x470x550mm			
N.W./G.W.	35/45kg			

*Ultrassay BioTech Co., Ltd. reserves the right of final interpretation of different application.

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Ultrapure Water System

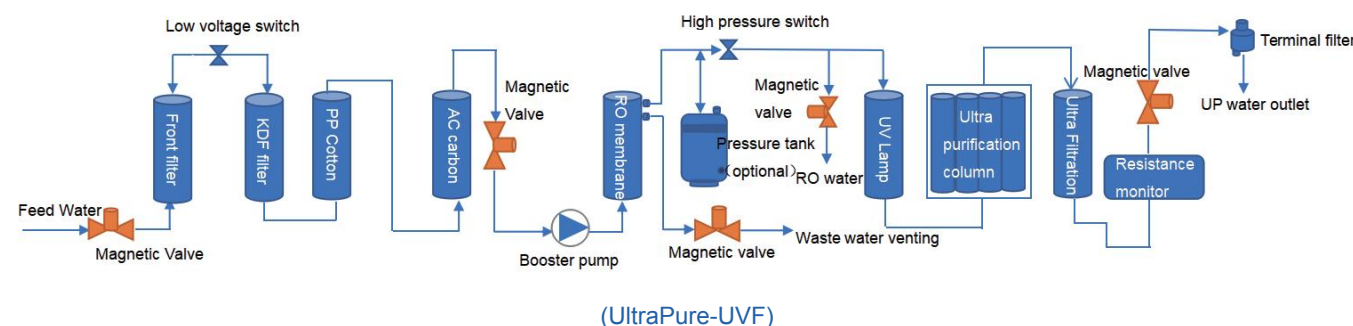
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ULTRASSAY BIOTECH CO., LTD.



Flow Schematic



Features

- 5" Colored touch screen, humanized operation interface make users completely monitor controll-er's working status and real-time data.
- ABS engineering plastic case, powder coating technology, with water quality and quantity upgrad-ing function, self-priming door.
- Type U Korean quick-insert filters, used imported filtering materials.
- Upgraded self-cleaning filter which with design of built-in 10" inch 10μm stainless steel filter mesh and silicone soft scraping, it can clean anytime, perfectly replace PP cotton filter, no need replace.
- Long-acting KDF filter whose adsorption efficiency and lifetime are more than 10 times as equal quantity activated carbon filter's, this avoid frequent filter replacement.
- Imported UF ultra filtration column ensure meet request for removing pyrogen and RNA.
- Built-in pressure tank which has inner pouch whose material is anti-bacteria and it is transparent, the inner pouch can be changed anytime.
- Inbuilt feed water pressure test gauge to real time monitor tap water pressure and filters blocking.
- Lifetime of PP cotton, activated carbon filter, RO membrane and ultra purification columns can be set to display the elapsed&rest time of consumables. Automatic reminder for filter replacement to avoid water quality decreasing.
- Perfect managing functions of RO&UP water making, circulation system and sterilization.
- Feed water, RO and UP water three ways water quality sensor and five ways switches signal are accessed integrated, with functions of timing quantitative water taking.
- Equipped with USB/RS232 interface, it supports data export function of historical alarm record and historical water intake record.
- Low-voltage 24VDC is used as the main power supply, which meets the safety regulations and meets the requirements of humid environment, and will not cause personal injury.

- Can be with inner circulation system to ensure water quality keep at the highest level. (optional)
- With 2 pumps, 2 RO membranes and buffer tank, system assures 2nd stage RO water quality's stability from different source water, and achieves little drain and low running cost. (optional)
- Remote portable dispenser with 2.0 inch colorful graphics display, acrylic panel, online monitoring the resistivity, temperature, flow rate and dispensed volume of pure water, 2 dispensing models -Instant and volume dispensing, easy for single hand operation, height adjustable arm, more user -friendly as Pipette-type dispensing, system circulation function, to achieve ultrapure water's continuous circulation, suitable for all lab dispensing such as glassware or volumetric flasks etc. (optional)

Cartridges

Order No.	Description	Replace Cycle
UltraPure-C-001	KDF composite filter	About 1 year
UltraPure-C-002	11" PP filter	About 4~6 months
UltraPure-C-003	11" activated carbon filter	About 4~6 months
UltraPure-C-004	75 GPD RO membrane	About 1-2 years
UltraPure-C-005	100 GPD RO membrane	About 1-2 years
UltraPure-C-006	11" ultra-purification column (imported resin)	About 1000 liters
UltraPure-C-007	0.2 μm imported PES terminal filter	About 2~3 years
UltraPure-C-008	Dual wavelength (185 & 254 nm) UV lamp tube (imported)	About 9000 liters
UltraPure-C-009	Imported PES 5000 Dalton UF heat source column	N/A

Order Information

Order No.	Description
UltraPure-U-10	10L/H, Standard type, RO pure water, UP ultra-pure water
UltraPure-U-20	20L/H, Standard type, RO pure water, UP ultra-pure water
UltraPure-U-30	30L/H, Standard type, RO pure water, UP ultra-pure water
UltraPure-UF-10	10L/H, Eliminating endotoxin type, RO pure water, UP ultra-pure water
UltraPure-UF-20	20L/H, Eliminating endotoxin type, RO pure water, UP ultra-pure water
UltraPure-UF-30	30L/H, Eliminating endotoxin type, RO pure water, UP ultra-pure water
UltraPure-UV-10	10L/H, Low TOC type, RO pure water, UP ultra-pure water
UltraPure-UV-20	20L/H, Low TOC type, RO pure water, UP ultra-pure water
UltraPure-UV-30	30L/H, Low TOC type, RO pure water, UP ultra-pure water
UltraPure-UVF-10	10L/H, Synthesizing type, RO pure water, UP ultra-pure water
UltraPure-UVF-20	20L/H, Synthesizing type, RO pure water, UP ultra-pure water
UltraPure-UVF-30	30L/H, Synthesizing type, RO pure water, UP ultra-pure water