PRODUCT CATALOG

TYPE I ULTRAPURE WATER PURIFICATION SYSTEM BKO-1602

ISO9001 CERTIFIED

www.biolabscientific.com

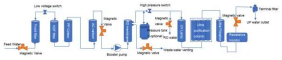
TYPE I ULTRAPURE WATER PURIFICATION SYSTEM BKO-1602

ULTRAPURE WATER MACHINE

Colored touch screen, humanized operation interface make users completely monitor the controller's working status and real-time data.
ABS engineering plastic case, powder coating technology, with water quality and quantity upgrading 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" 10μm stainless steel filter mesh and silicone soft scraping, can clean anytime, perfectly replace PP cotton filter, no need for replacement.
Long-acting KDF filters whose adsorption efficiency and lifetime are more than 10times as equal quantity activated carbon filter's, this avoid frequent filter replacement.
Imported UF ultra filtration columns meet requests for removing pyrogen and RNA.

SPECIFICATIONS

Model	BKO-1602
Production Rate	20L/hr
Water Quality	Type I, Type III
Feed Water	Tap Water
Tank Capacity	8L
Type classification	Comprehensive
The water requirements	Urban tap water, inlet water pressure: 0.15-0.5mpa, water temperature 5-40°C
RO water Parameter	
Ion rejection rate	97%-99% (when using a new RO membrane)
Organic matter rejection rate	>99% when MW>200 Dalton
Particle and bacterial rejection	> 99%
Application (RO water)	Front system of ultra-pure water machine, buffer configuration, photosensitive film washing, water supply for stability experiment box, meteorological experiment equipment, hydrogen generator, battery adding liquid, electroplating and other instruments
UP water Parameter(ASTM TYPE I grade water)	
Resistivity (25°C)	18.25 M Ω. Cm @ 25 °C
Heavy metal ion	< 0.01 ppb
Total organic carbon (TOC) *	<3 ppb
bacteria	< 1 cfu/ml *(with terminal filter)
Particulate matter (> 0.1 microns)	<1/ml
Pyrogen (endotoxin)	< 0.001 Eu/ml
Ribonuclease (RNases)	<1pg/ml
Deoxyribonucleases	<5pg/ml
Application (TYPE I grade water)	Molecular biology, Life sciences, gene research, cell culture, amino acid analysis, protein purification, toxicology, drug development, medical testing
Electrical requirements	100-240V, 50/60Hz, 48-72W
The system configuration	Host machine (including 1 set of purification column)+8 L built-in pressure water storage tank +TDS pen + accessory bag
Alt Name	Ultrapure Water Machine



FEATURES

Colored touch screen, humanized operation interface make users completely monitor the controller's working status and real-time data.
ABS engineering plastic case, powder coating technology, with water quality and quantity upgrading 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" 10μm stainless steel filter mesh and silicone soft scraping, can clean anytime, perfectly replace PP cotton filter, no need for replacement.
Long-acting KDF filters whose adsorption efficiency and lifetime are more than 10times as equal quantity activated carbon filter's, this avoid frequent filter replacement.
Imported UF ultra filtration columns meet requests for removing pyrogen and RNA.
Built-in pressure tank which has an 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 filter 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 switch signals are accessed integrated, with functions of timing quantitative water taking.
Equipped with USB Host 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 a humid environment, and will not cause personal injury.
Can be with an inner circulation system to ensure water quality keeps at the highest level. (optional).

APPLICATIONS

Molecular biology, Life sciences, gene research, cell culture, amino acid analysis, protein purification, toxicology, drug development, medical testing.

MORE INFO

Product name	Picture	Function	Replace cycle	Remark
Front filter		10 micron 316 stainless steel washable filter, remove minor impurities,extend PP cotton lifetime.	/	
KDF composite filter		Remove residual chlorine,heavy metals, retrain fungi breed, lifetime is very long, can protect post-positive filters.	About 1 year	
11" PP filter		remove impurities (greater than 5 micron) such as suspended solid, rust, sludge, colloid, etc.	About 4-6 month	
11" activated carbon filter		remove color, odor, residual chlorine and heavy metals	About 4-6 month	

Reverse osmosis membrane		filter out <1nm pollutants, ions, particles	About 1-2 years	10L/H--75 GPD RO membrane 20L/H--150 GPD RO membrane 30L/H--200 GPD RO membrane
Dual wavelength (185 & 254 nm) UV lamp		sterilization device, decomposition and photo oxidation OC, lower TOC (*-V,-VF) 185nm: TOC removal 254nm: sterilization	About 9000 hours	
11" ultra-purification column		ion exchange resin bed, H+ and OH- ion removal	About 1000 liter/pc	
Imported 5000 Dalton UF heat source column		remove pyrogen,RNase, DNase(*-F,-VF)	About 2-3 years	
0.2 μm PES terminal filter		final removal for < 0.2μm bacteria	About 2-3 years	

Biolab Scientific Ltd.
Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com