



# TYPE I ULTRAPURE WATER PURIFICATION SYSTEM BKO-1501

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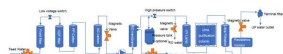
## ULTRAPURE WATER MACHINE



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-1501                                                                                                                                                                                                                                                     |
| Production Rate                             | 10L/hr                                                                                                                                                                                                                                                       |
| Water Quality                               | Type I, Type III                                                                                                                                                                                                                                             |
| Feed Water                                  | Tap Water                                                                                                                                                                                                                                                    |
| Tank Capacity                               | 8L                                                                                                                                                                                                                                                           |
| Type classification                         | Low Endotoxin                                                                                                                                                                                                                                                |
| 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) *                | <10 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)            | High sensitivity ICP/MS, PCR, PPT level analysis, isotope analysis, molecular biology, life science, CDC, drug control institute, quality inspection institute                                                                                               |
| 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

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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

High sensitivity ICP/MS, PCR, PPT level analysis, isotope analysis, molecular biology, life science, CDC, drug control institute, quality inspection institute, university scientific research and other standard laboratories and a variety of high-end precision instrument water.

## 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, restrain 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<br>20L/H--150 GPD RO membrane<br>30L/H--200 GPD RO membrane |
| Dual wavelength (185 & 254 nm) UV lamp     |  | sterilization device, decomposition and photo oxidation OC, lower TOC (*-V,-VF)<br>185nm: TOC removal<br>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     |                                                                                       |



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