



# LARGE CAPACITY WATER PURIFICATION SYSTEM BCPS-403

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This series is idea choice for general washing pure water. It's output ranges from 45 to 500 liter of water an hour. It has automatic microcomputer controlling system, real-time animation mode display. Pipeline and fast-plug adapter with NSF authorization, assure high-quality ultrapure water.

Used in Laboratory, Manufacturing, Reefkeeping, Aquarium, Laboratory, Research.

Also known as Laboratory Double stage RO ultrapure Water Purification System.

## BCPS-403 LARGE CAPACITY WATER PURIFICATION SYSTEM



Human engineering design, high-strength, streamline plastic shell.

One time injection molding process case, material: Polypropylene PP.

Elegant and compact case, integrating pre-filter, RO, DI, UV, UF and terminal filter into one.

All filters are built-in, for the smallest outside space.

Top cap of pre-filters in the case can be rapidly opened to replace the pre-filters without opening the case.

With electronic pressure sensor and microcomputer controlling, the system automatically produces pure water.

Automatic stop without water, automatic stop when water tank full, automatically cutting off water when pump stopping,

guaranteeing 24 hours' work.

Self-flushing of the reverse osmosis membrane, extend the life of RO membrane.

On-line resistivity monitor, with apheliotropic LCD display, to detect the quality of deionized or ultrapure water.

Attached portable TDS (total dissolved solid)/conductivity test pen, with dry cell design, to detect the quality of tap water and RO water.

Different external tanks (optional) to meet every need and assure ample water-supply.

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.

DOW's RO membrane, ensure stable operation and high desalinization rate.

4 ultrapure cartridges, 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.

## SPECIFICATIONS

Model	BCPS-403
Feed Water Requirements*	
Water Inlet	Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)
Temperature	5-45°C

Pressure	1.0-4.0 Kgf/cm <sup>2</sup>
Flow Procedure**	PF+AC+RO+RO+AC
Output(25°C)****	1st stage RO water:125 L/hr, 2nd stage RO water: 60 L/hr
Pure water outlet	1st and 2nd stage RO water
DimensionLxWxH	760x630x1190 mm
Weight	80 kg
Standard configuration	Main body (Including 1 set of cartridges) + built-in 2 tank (40L PE tank+2 gallon pressure tank)+ accessory bag
Power Consumption (W)	300 W
Power Supply	AC110-220 V, 50/60 Hz
Note	*The feed water quality will influence the pure water's quality and cartridges life-span. **PF:polypropylene spun fiber, 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.
Ultrapure Water Quality	
1st stage RO water's TDS	TDS (ppm, mg/l) < TDS of tap water x 5%
2nd stage RO water's conductivity	1-5µs/cm, Organic rejection rate>99% (when MW>200 Dalton), Particles and bacteria rejection rate>99%



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