

# MEDIUM RO WATER SYSTEM WPS53-094



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Modularly designed for functional and economical production of high-purity water. It is ideal for laboratory applications such as reagent preparation, constant temperature and humidity chamber, and glassware washing. Used in Food Industry, Beverage Industry, Agriculture, Boiler Feed, Disaster Relief Environmental, Hospital, Hotel, Marine, Military, Mining, Pharmaceutical, Power.

Also known as Laboratory RO water system.

## WPS53-094 MEDIUM RO WATER SYSTEM

Automatic microcomputer controlling system, multi-menu operating, real-time animation mode display.

Super-large LCD (Resolution:240×128, dimension:106×57mm) display, display the system running state and various parameters intuitively.

3 way on-line sensor, detect the quality of feed water, RO water, or ultrapure water respectively.

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

Multiple alarm functions: such as no water, full water, disqualification of feed water, RO water, deionized water or ultrapure water, cartridge's life-span ends.

The cartridge's life-span can be set, the time used and left can be displayed, replacing auto-reminding, avoiding the decline of water quality.

Level II password, protect all the parameters setting, and prohibit any unauthorized settings change.

-Water dispensing function-timing and quality (Time range:1-99min, water quality range:0.1-18.2MΩ.cm).

RS 232/USB communication port(optional), at least store 1 years' water quality data.

2 built-in tank (capacity:15 liters per tank) to save lab space, and optional exterior tanks meet different need to assure ample water-supply.

High-strength stainless steel shell with powder painting technics, achieve elegant appearance and meeting GLP standard.

The system is floor type, and it is convenient to move with wheels on the bottom.

Enough internal space is reserved to add circulation transportation system for central water supply.

Pipeline and fast-plug adaptor with NSF authorization, assure high quality ultrapure water.

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

Special large capacity ultrapure polishing technology, to optimize pure water quality maximumly with minimum resin. With DOW's nuclear-grade polishing resin, to 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                    | WPS53-094                                                                         |
| 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+AC                                                                                                                                                                                                                                                                            |
| Ion rejection rate                    | 96%-99% (New RO membrane)                                                                                                                                                                                                                                                              |
| Organic rejection rate                | >99%, when MW>200 Dalton                                                                                                                                                                                                                                                               |
| Particles and bacteria rejection rate | >99%                                                                                                                                                                                                                                                                                   |
| Bacteria                              | <0.1 cfu/ml (with optional 0.2µm PES terminal filter)                                                                                                                                                                                                                                  |
| Particles(>0.2µm)                     | <1/ml (with optional 0.2 µm PES terminal filter)                                                                                                                                                                                                                                       |
| Output(25°C)****                      | 94 L/hr                                                                                                                                                                                                                                                                                |
| Pure water outlet                     | RO water                                                                                                                                                                                                                                                                               |
| Water Quality Monitor                 | Portable TDS/conductivity test pen + on-line conductivity monitor                                                                                                                                                                                                                      |
| DimensionLxWxH                        | 640x540x1110 mm                                                                                                                                                                                                                                                                        |
| Weight                                | 70 kg                                                                                                                                                                                                                                                                                  |
| Standard configuration                | Main body (Including 1 set of cartridges)+ 2 built-in15 liters tank+ TDS pen +accessory bag                                                                                                                                                                                            |
| Power Consumption (W)                 | 240 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.<br>**PF:polypropylene spun fiber, AC:active carbon, RO:reverse osmosis. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate. |



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