

# ELIMINATING ENDOTOXIN ULTRAPURE WATER SYSTEM WPS64-015UF



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Ultrapure water system is sub-economic choice for high grade experiments. This level of purification is required for advanced analytical techniques, such as HPLC, and is commonly used for semi-conductor manufacturing.

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

Also known as Laboratory Ultrapure water system.

## WPS64-015UF ELIMINATING ENDOTOXIN ULTRAPURE 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.

System sterilization procedure, achieve the disinfection of ultrapure water's pipeline.

System circulation function, circulate water when the system stops working, to keep water quality.

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, cartridges' 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.

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

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

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.

KDF pretreating cartridge, replace the ordinary active carbon, prolong the life-span to 12 months, reduce the running cost.

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

4 in 1 ultrapure cartridges (also can be divided to 4 independent cartridge), 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                                 | WPS64-015UF   |
| Feed Water Requirements*              |   |
| Water Inlet                           | Tap water: TDS <200 ppm (Extra pretreatment filter is recommended, if TDS >200ppm)  |
| Temperature                           | 5-45°C  |
| Pressure                              | 1.0-4.0 Kgf/cm <sup>2</sup>   |
| Flow Procedure**                      | PF+KDF+AC+RO+DI+UF+TF   |
| 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   |
| Output(25°C)****                      | 15 L/hr   |
| Pure water outlet                     | RO water and Ultrapure water  |
| Water Quality Monitor                 | -   |
| DimensionLxWxH                        | 500x360x540 mm  |
| Weight                                | 25 kg   |
| Standard configuration                | Main body (Including 1 set of cartridges)+15 liters tank+ accessory bag   |
| Power Consumption (W)                 | 120 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, KDF:kinetic degradation fluxion, 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               |   |
| Resistivity(25°C)                     | 18.2 MΩ.cm  |
| Heavy Metal Ion                       | <0.1 ppb  |
| TOC***                                | <10 ppb   |
| Particle (>0.2µm)                     | <1/ml   |
| Endotoxin                             | <0.001 EU/ml  |
| Rnases                                | <0.01 ng/ml   |
| Dnases                                | <4pg/µl   |
| Flow rate                             | 2.0 L/min (with pressure tank)  |

# ***Centrifugen***

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