

# DEIONIZED WATER SYSTEM WPS12-030



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It provides a variety of applications from residential to scientific and industrial settings. It completely meets the requirements of general chemical or biological experiments for pure water. Deionized water system is an ideal choice of deionized water for grade experiments.

Used in Laboratory, Manufacturing, Reefkeeping, Aquarium.

Also known as Laboratory Deionized water system.

## WPS12-030 DEIONIZED WATER 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                    | WPS12-030   |
| 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+DI  |
| Ion rejection rate                    | 96%-99% (New RO membrane)  |
| Organic rejection rate                | >99%,when MW>200 Dalton  |
| Particles and bacteria rejection rate | >99%   |
| Output(25°C)****                      | 30 L/hrs   |
| Pure water outlet                     | RO and deionized water   |
| Water Quality Monitor                 | Portable TDS/conductivity test pen + on-line resistivity monitor   |
| DimensionLxWxH                        | 410x220x420 mm   |
| Weight                                | 20 kg  |
| Standard configuration                | Main body (Including 1 set of cartridges)+15 liters tank+ TDS pen +accessory bag   |
| Power Consumption (W)                 | 72 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, DI:ion exchange, UV:ultraviolet, TF:terminal microfiltration. ***All the specifications are tested under the situation:feed water's TDS=200ppm, 25°C, 50psi and 15% recovery rate. |
| Deionized water quality               |  |
| Resistivity                           | >15-18.2 MΩ.cm   |
| Conductivity                          | 0.055-0.067μs/cm   |
| Particle(>0.2μm)                      | <1/ml  |
| Ultrapure Water Quality               |  |
| Flow rate                             | 2.0 L/min (with pressure tank)   |

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