# Ultra-pure Water-Purifier

Brand **Master Science** | Unit **Pc**



Suitable for graphite furnace atomic absorption spectrometry (GFAAS), gas chromatography-mass spectrometry (GC-MS), high-performance liquid chromatography (HPLC), plasma mass spectrometry (ICP-MS), ion mass spectroscopy (IC), TOC analysis, and solid phase extraction (SPE).

KEY HIGHLIGHTS

- Terminal Treatment Options
- User Interface
- Water Intake
- Data Management

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## Overview

Advanced Controller: The system utilizes a cutting-edge 32-bit microprocessor, ensuring high operational speed and low power consumption. Designed with advanced EMC technology, it boasts strong interference immunity, minimal noise, robust surge resistance, and reliable, stable, long-term operation.
Washing and Circulation Functions: Features both automatic and manual washing and circulation to prolong the service life of the American Dow RO membrane, minimizing bacterial contamination.

## Key Features

### Terminal Treatment Options
Various terminal treaters can be selected according to operational requirements, effectively removing contaminants such as endotoxins, nucleases, ultratrace organics, endocrine disruptors (EDS), and VOCs, meeting diverse experimental needs.

### User Interface
Features a 7.0-inch color capacitive touchscreen with an animated menu, switchable between Chinese and English. The user-friendly system includes an IR remote control, one-key ON/OFF, one-key pure water and UP water intake, and one-key circulation and washing.

### Water Intake
Supports qualitative and quantitative water intake at fixed times, system time settings (Y/M/D/Hr/Min), timed standby (0-60min), and timed shutdown (0-24h).

### Data Management
Real-time data monitoring with online inquiry capabilities. A USB host interface allows exporting historical alarm and water intake records.

## Technical Specifications

| GENERAL | |
|---|---|
| General | NameTrace Analysis |
| General | Product TypeLWP-P3 TA Series |
| General | ModelsLWP-P3-10TA, LWP-P3-20TA, LWP-P3-30TA, LWP-P3-40TA |
| Water Storage | Water can be stored in both a pressure barrel and a water tank, with the system displaying the stored water volume to meet various user needs. |

| ADDITIONAL INFORMATION | |
|---|---|
| Conductivity Meter | Equipped with a resistance constant of 0.01 cm^-1 and a temperature sensitivity of ±0.1°C, it offers automatic temperature compensation. |
| Intelligent Control System | Fully intelligent control supports multiple users, independent evaluation, and secondary factory and user password protection. System settings are password-protected to prevent unauthorized changes. |
| Online Diagnosis | Capable of online malfunction diagnosis (for source water, pre-pure water, and UP water), it offers warnings or automatic shutdown and clear indications. |

## Applications

**System Process**
PF+PP+RO+DI+UV+DI+UV+TF

## Standard Accessories Included

- Urban tap water with TDS < 200 ppm, 5-45°C, 1.0-4.0 Kgf/cm² (external softener recommended if TDS > 200 ppm).
- UP Water Indexes
- Resistivity: 18.2 MΩ.cm @ 25°C
- Particulate Matter (PM >0.2μm): <1 cfu/ml
- Bacteria: <0.1 cfu/ml
- Total Organic Carbon (TOC): <3 ppb
- Endotoxin: <0.002 Eu/ml
- Ribonuclease (RNases): N/A
- Deoxyribonuclease (DNases): N/A
- DI Water Indexes
- Conductivity: <1 μS/cm @ 25°C (single-stage RO + DI), ion rejection rate: 96-99% (new RO membrane), organic rejection rate: >99% (MW > 200 Dalton)
- Heavy Metal Ion: <0.1 ppb
- Water Yield (25°C): 10/20/30/40 L/H
- Instantaneous Water Yield: 1.5-2.0 L/min (with pressure barrel)
- Water Outlets: 2 (DI water, UP water)
- Size/Weight: 500×400×580 mm / approximately 38 kg
- Power Supply/Power/Noise: 220V 50Hz / 50-80W / <50 dB
- Host (including 1 set of purified column), external 12L pressure barrel, accessory bag