

Deluxe-UP Series



Introduction

The Deluxe-UP series represents our premium water purification solution designed for demanding laboratory applications. When your research demands exceptional water quality, our systems deliver unmatched performance. With consistent ultrapure water output at 18.2MΩ.cm and powered by cutting-edge technology, the Deluxe-UP series ensures reliable operation and precise results, allowing researchers to focus on their critical work without interruption.

Application

- ICP-MS (Inductively Coupled Plasma Mass Spectrometry)
- Molecular biology techniques
- Ultra trace analysis
- Electrochemistry
- Electrophoresis
- GFAAS (Graphite Furnace Atomic Absorption Spectrophotometry)
- HPLC
- IC (Ion Chromatography)
- ICP-AES (Inductively Coupled Plasma Atomic Emission Spectrometry)
- Mammalian and bacterial cell culture
- Molecular biology
- Plant tissue culture
- Qualitative analysis

Features

1. Advanced Design & Construction

- Premium ABS construction with corrosion-resistant properties
- Streamlined design with water-electricity separation for enhanced safety
- Easy maintenance with quick-access consumable replacement

2. Intelligent Control System

- 7-inch HD color touchscreen interface
- RFID-enabled consumables management
- Superior Water Dispensing System
- Real-time parameter monitoring and display
- Remote control capability via RS232 interface
- Flexible remote dispenser with 3-meter reach

3. Smart Dispensing Handle

- 360° rotation capability
- Real-time quality parameter display
- Optional Bio-final filter for endotoxin, RNase & DNase removal
- Three-level adjustable flow rates

4. Advanced Purification Technology

- Dual-column pretreatment system with high quality activated carbon
- High-performance DOW RO membrane with auto-flush function
- EDI module for continuous high-purity water production (Deluxe-UP-E model)
- Ultrafiltration system with automatic flush design

5. Innovative Storage Solution

- PE construction water tank for optimal water quality
- Anti-microbial cylindrical design
- One-touch sanitization function for entire system
- Automated level control system

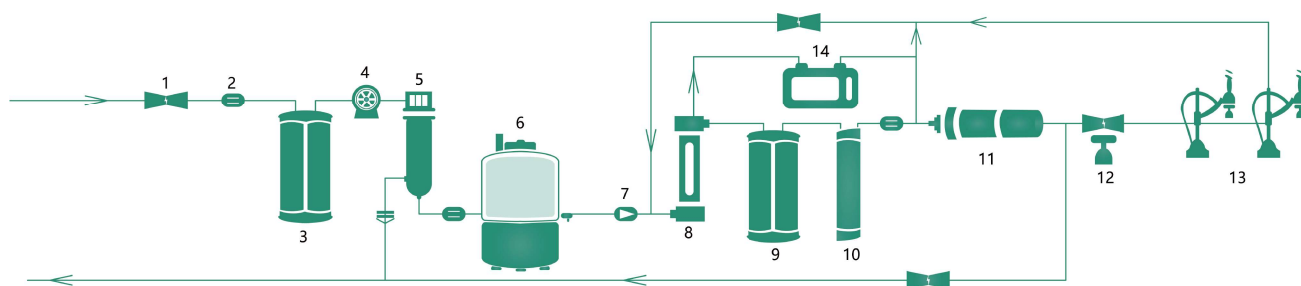
6. Water Quality Assurance

- Automatic and continuous water quality monitoring
- Dual-wavelength UV system with TOC monitoring
- Multi-channel resistivity sensor (0.01 constant) with temperature compensation

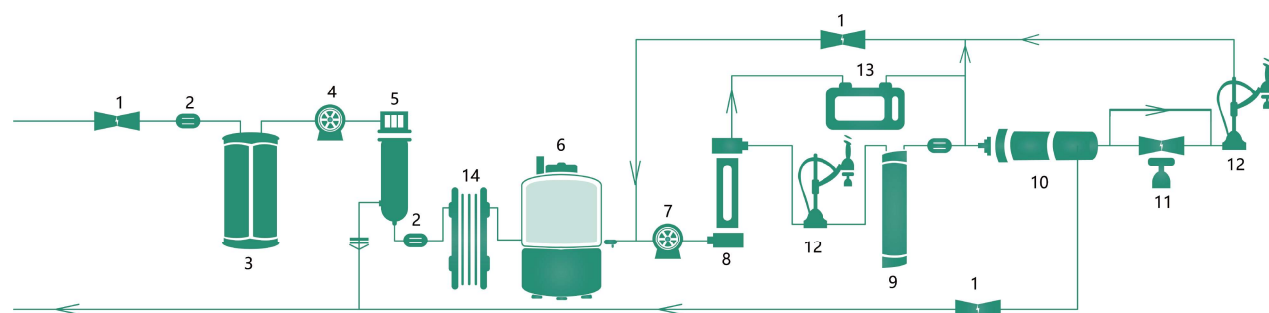
Configuration

Deluxe System	Deluxe-UP	Deluxe-UP-T	Deluxe-UP-E	Deluxe-UP-ET
Pretreatment module	○	○	○	○
High pressure pump	○	○	○	○
Reverse osmosis	○	○	○	○
UV Lamp	○	○	○	○
Ultra-purification cartridge	○	○	○	○
Ultrafiltration cartridge	○	○	○	○
EDI Module	\	\	○	○
Point-of-use filter	○	○	○	○
Storage tank 30L	○	○	○	○
Air filter net for tank	○	○	○	○
UV-lamp sterilizer for water tank	○	○	○	○
Remote water dispenser with color display	○	○	○	○
TOC monitoring module	\	○	\	○

Deluxe-UP/UP-T



Deluxe-UP-E/UP-ET



- 1 Solenoid Valve
- 2 Conductivity Sensor
- 3 Pre-treatment Module
- 4 Boost Pump
- 5 RO Module

- 6 Water Tank
- 7 Ball Valve
- 8 UV lamp
- 9 Ultra-Purification Module
- 10 Ultra-Filtration Cartridge

- 11 Point-Of-Use Filter
- 12 Remote Water Dispenser
- 13 TOC monitor cell*
- 14 EDI module

* Applicable for Deluxe-UP-T and Deluxe-UP-ET

Technical Specifications

Model	Deluxe-UP	Deluxe-UP-T	Deluxe-UP-E	Deluxe-UP-ET
Feed Water Requirement				
Source	Tap water			
Conductivity*	<2000us/cm			
Hardness**	<450ppm as CaCO3			
Pressure	0.05-0.5MPa(7-72psi)			
Temperature	5-40 ℃			
Pure Water(Class III)				
Ionic Rejection	>95%			
Bacteria Rejection	>99%			

Model	Deluxe-UP	Deluxe-UP-T	Deluxe-UP-E	Deluxe-UP-ET
Conductivity	1-20us/cm			
Productivity Rate	30L/h			
High Purified Water(Class II)				
Resistivity At 25℃	/	/	10MΩ.cm	10MΩ.cm
TOC	/	/	<30ppb	<30ppb
Dissolved Organic	/	/	<0.1ppm	<0.1ppm
Productivity Rate	/	/	15L/h	15L/h
Ultrapurification Water(Class I)				
Resistivity At 25℃	18.2MΩ.cm			
Conductivity At 25℃	0.055us/cm			
TOC Level***	1-5ppb			
Endotoxin(Pyrogens)****	<0.001EU/ml			
Particulate(≥0.02um)	<1pc/ml			
Bacteria***	<0.1CFU/ml			
Rnase/Dnase**	Free			
Manual Dispense Flow Rate	1.5-2.0L/min			
Automatic Dispense Volume	100-60000ml			
Electrical Requirements				
Electrical Voltage	110V/220V±10%			
Electrical Frequency	50HZ/60HZ			
Net weight				
Main units	34kg	34kg	35kg	35kg
Water tank (30L)	7kg			
External Dimensions(WxDxH)				
Main units	380*380*595mm			
Water tank (30L)	315*525*570mm			
Others				
Remote Water Dispenser	1pc	1pc	2pcs	2pcs

*If feed water quality in poor(Conductivity > 1000us/cm), strengthened pretreatment module and RO-2 type is highly recommended ;

**When hardness of feed water is high(>450ppm as CaCO₃), 0.5T water soften is recommended ;

***Dual wave UV module need to be adopted. Also dependent on feed water, recommended feed TOC<30ppb;

****Ultra-filtration module need to be adopted. Feed water need to be satisfied as above ;