

Basic-UP Series



Introduction

The Basic-UP is an advanced all-in-one water purification system designed to produce Type I, II, and III ultrapure water. This system offers a cost-effective solution for users requiring various pure water applications while maintaining high-quality standards. Suitable for molecular biology, life sciences, genetic research, cell culture, amino acid analysis, protein purification, toxicology research, drug development, medical testing.

Features

1. All-in-One Solution

- Produces Type I, II, and III ultrapure water
- Cost-effective for diverse water purification needs

2. Advanced Monitoring & Measurement

- Continuous feedwater quality monitoring with instant alerts
- High-precision conductivity measurement with automatic calibration
- Accurate temperature compensation ($\pm 0.1^{\circ}\text{C}$) with platinum sensors

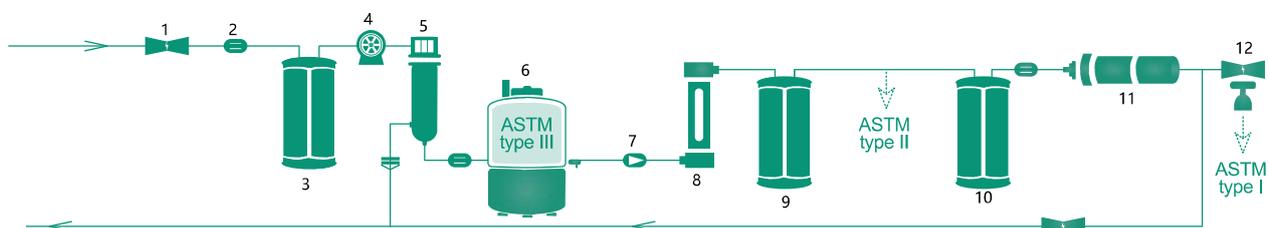
3. Superior Purification Technology

- High-capacity dual cartridge pretreatment system
- Advanced RO system with USA DOW composite membrane
- Dual-column ion exchange system with premium Rohm and Haas resin

4. Extended System Longevity

- Flow design extends RO membrane life by ~50%
- Automatic flush function for better filtration
- Leak-free operation with one-piece thermal molding

Basic-UP



1 Solenoid Valve	5 RO Module	9 Purification Module
2 Conductivity Sensor	6 Water Tank	10 Ultra-Purification Module
3 Pre-treatment Module	7 Ball Valve	11 Micro-Filtration Cartridge
4 Boost Pump	8 UV Lamp	12 Point-Of-Use Filter

Technical Specifications

Model	Basic-UP-15/Basic-UP-30
Feed Water Requirement	
Source	Tap water
Conductivity*	<2000us/cm
Hardness**	<450ppm as CaCO ₃
Pressure	0.05-0.5MPa(7-72psi)
Temperature	5-40 °C
Pure Water(Class III)	
Ionic Rejection	>95%
Bacteria Rejection	>99%
Conductivity	1-20us/cm
Productivity Rate	15L/h, 30L/h
High Purified Water(Class II)	
Resistivity At 25 °C	10MΩ.cm
TOC	<30ppb
Dissolved Organic	<0.1ppm
Ultrapurification Water(Class I)	
Resistivity At 25 °C	16~17MΩ.cm
Flow Rate	1-1.5L/min
TOC Level(optional with UV)	< 30ppb
Particulate(≥0.02um)	<1pc/ml
Bacteria	<1CFU/ml
Others	
Net weight (main units)	38kg
Dimension (W*D*H)	390*530*500mm

*if feed water quality is poor(Conductivity > 1000us/cm),3 class strengthened pretreatment module and RO-2 type is highly recommended;

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