

Genius-DI Series



Introduction

The Genius-DI is an advanced water purification system that delivers consistently high-quality pure water for critical laboratory applications. With its intelligent design and cutting-edge technology, it ensures reliable performance while maintaining cost-effectiveness.

Application

Ideal for laboratory applications requiring ASTM Type II water, including:

- AAS (Atomic absorption spectrophotometry)
- Buffer and media preparation
- Electrophysiology
- FAAS (Flame atomic absorption spectrophotometry)
- Feed to ultrapure water systems
- General chemistry
- Histology
- Hydrogen generators
- Microbiological analysis
- pH measurement
- Pharmaceutical (according to US and European pharmacopeias)
- RIA(Radioimmunoassay)/ELISA (Enzyme linked immunoabsorbant assay)
- Sample dilution and reagent preparation
- Spectrophotometry
- Stability chambers
- Surface tension experiments
- Water analysis
- Weatherometers

Features

1. Comprehensive Pretreatment System

- High-capacity dual cartridge design with extended service life
- Leak-free one-piece thermal molding construction
- Special pretreatment columns available for challenging water conditions

2. Enhanced RO Performance

- Advanced membrane support technology for improved efficiency
- Premium DOW composite membrane with high recovery rate
- Automatic flush function extends membrane life by 50%

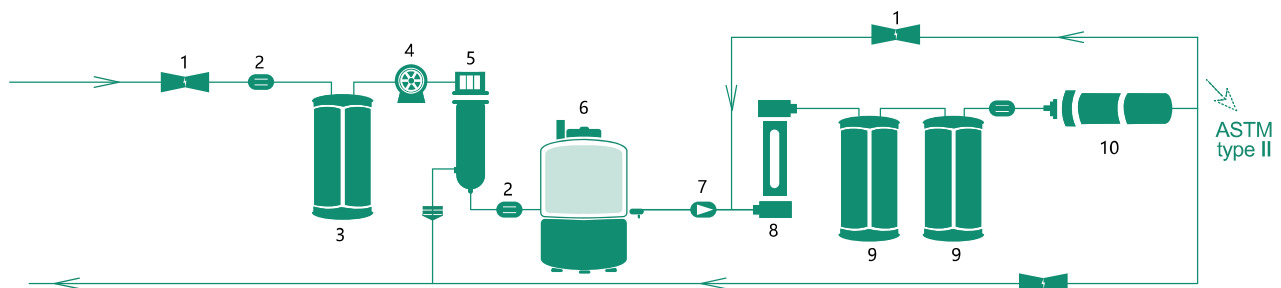
3. Superior Ion Exchange

- Dual-column design with high-capacity Rohm and Haas resin
- Pressure-resistant construction prevents leakage

4. Intelligent Control

- Large LCD display with real-time parameter monitoring

Genius-DI



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 Purification Module

10 Micro-Filtration Cartridge



Technical Specifications

Model	Genius-DI -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 ℃
Pure Water(Class III)	
Ionic Rejection	>95%
Bacteria Rejection	>99%
Conductivity	1-20us/cm(RO-2 5us/cm)
Productivity Rate	30L/h
High Purified Water(Class II)	
Resistivity At 25℃	≥10MΩ.cm
TOC	≤30ppb
Dissolved Organic	<0.1ppm
Particulate(≥0.02um)	<1pc/ml
Bacteria	<1CFU/ml
Flow Rate	1.5-2.0L/min
Net weight	
Main units	25kg
Water tank (30L)	7kg
Dimensions(W*D*H)	
Main units	315*525*570mm
Water tank (30L)	380*380*595mm

*If feed water quality is 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