

Genius-UP-E Series



Introduction

The Genius-UP-E15UV and Genius-UP-E15VF are advanced water purification systems designed for laboratory use, featuring state-of-the-art EDI technology and user-friendly operation. These systems deliver consistently high-quality purified water while maintaining efficient and reliable performance.

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. User-Friendly Operation
 - Touch screen control interface for quick operation
 - Automated microprocessor control system
 - PIN-code protected settings
2. Easy Maintenance
 - Quick-connect cartridge replacement system
 - Easy access for maintenance and sanitization
 - Individual module replacement capability
3. Advanced Monitoring System
 - Integrated feedwater quality monitoring
 - Temperature compensation with $\pm 0.1^{\circ}\text{C}$ accuracy
 - High-precision conductivity measurement
4. Flexible Water Dispensing
 - Ergonomic remote dispenser with 25cm radius
 - Adjustable height and direction

- Auto-volume dispensing from 50ml to 60L

5. Comprehensive Display

- Water temperature
- Operating status
- Consumable status

6. Space-Efficient Design

- Multiple installation options
- Lab table installation

7. EDI Technology

- Advanced Electrodeionization (EDI) features
- Reduced maintenance costs
- Minimal contamination

- Removable dispensing pistol

- Conductivity/resistivity readings
- Tank level

- Under-bench mounting
- Wall mounting

- Lower energy consumption
- Superior ion exchange

Configuration

Genis-UP-E Series	Genius-UP-E15UV	Genius-UP-E15VF
Pretreatment module	○	○
High pressure pump	○	○
Reverse osmosis	○	○
UV Lamp	○	○
Ultra-purification cartridge	○	○
Microfiltration 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	○	○

Technical Specifications

Model	Genius-UP-E15UV	Genius-UP-E15VF
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)		
Conductivity	1-20us/cm(RO-2 5us/cm)	
Productivity Rate	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***	<1CFU/ml	
Rnase/Dnase**	/	Free
Manual Dispense Flow Rate	1.5-2.0L/min	
Automatic Dispense Volume	100-25000ml	
Electrical Voltage	110V/220V±10%	
Electrical Frequency	50HZ/60HZ	
Net weight		
Main units	26kg	
Water tank(30L)	7kg	
External Dimensions(WxDxH)		
Main units	315*520*560mm	
Water tank(30L)	380*380*595mm	

*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;