

Genius-UP Series



Introduction

The Genius-UP Series is an intelligent ultrapure water system featuring an all-plastic mold design. It can produce both analytical grade pure water and ultrapure water directly from tap water. This versatile system meets diverse water purification needs across hospitals, universities, and research institutions.

Application

- **UV model:** Produces ultrapure water with ultra-low organics for HPLC, IC, GC, and GC/MS applications
- **VF model:** Generates pyrogen-free ultrapure water with ultra-low organics for cell culture, protein analysis, IVF, PCR, and electrophoresis

Features

1. Superior Pretreatment Design

- High-capacity dual cartridge system ensures long service life and low maintenance costs
- One-piece thermal molding ensures safety and leak-free operation
- Integrated activated carbon block with extended lifespan for efficient chlorine removal

2. Enhanced RO System

- Advanced membrane support technology improves water production and cleaning efficiency
- High-recovery DOW composite membrane with extended service life
- Automatic flush function extends RO membrane life by up to 50%

3. Powerful Ion Exchange

- Dual-column purification system with high resin capacity for extended lifetime
- Pressure-resistant design prevents leakage
- Premium resin ensures superior water quality

4. Flexible Water Dispensing

- Dual dispensing points with automatic ultrapure water recirculation
- 6-position height adjustment (290-540mm) with 360° rotating dispenser

- Remote dispensing up to 3 meters from main unit

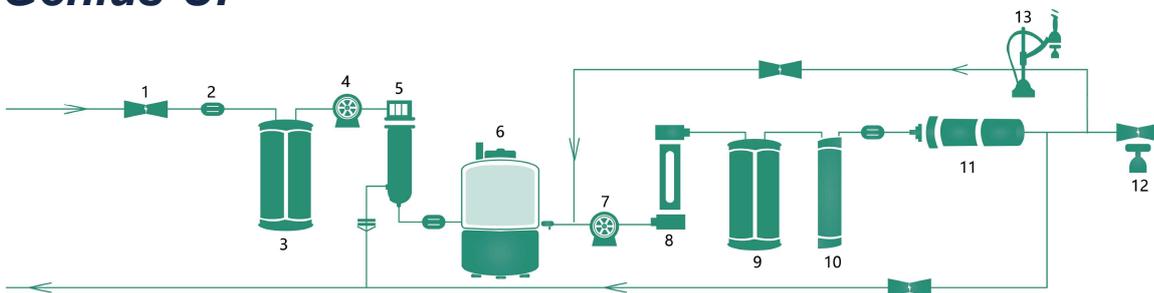
5. Intelligent Control System

- Large LCD display shows real-time parameters and consumable status
- Microprocessor-controlled with automatic monitoring of all purification stages
- Volumetric dispensing and RS232 interface for data logging and network integration

Configuration

Genis-UP system	Genius-UP-15UV	Genius-UP-15VF	Genius-UP-30UV	Genius-UP-30VF
Pretreatment module	○	○	○	○
High pressure pump	○	○	○	○
Reverse osmosis	○	○	○	○
UV lamp	○	○	○	○
Ultra-purification cartridge	○	○	○	○
Microfiltration cartridge	○	\	○	\
Ultrafiltration cartridge	\	○	\	○
Point-of-use filter	○	○	○	○
Storage tank 30L	○	○	○	○
Air filter net for tank	○	○	○	○
Remote water dispenser	○	○	○	○

Genius-UP



- | | | |
|------------------------|------------------------------|--|
| 1 Solenoid Valve | 6 Water Tank | 11 Micro-Filtration Cartridge (UV)
Ultra-Filtration Cartridge(VF) |
| 2 Conductivity Sensor | 7 Supply pump | 12 Point-Of-Use Filter |
| 3 Pre-treatment Module | 8 UV lamp | 13 Remote Water Dispenser |
| 4 Boost Pump | 9 Purification Module | |
| 5 RO Module | 10 Ultra-Purification Module | |

Specifications

Model	Genius-UP-15UV	Genius-UP-15VF	Genius-UP-30UV	Genius-UP-30VF
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(RO-2 5us/cm)			
Productivity Rate	15L/h	15L/h	30L/h	30L/h
Ultrapurification Water(Class I)				
Resistivity At 25 °C	18.2MΩ.cm			
Conductivity At 25 °C	0.055us/cm			
TOC Level***	1~5ppb			
Endotoxin(Pyrogens)****	N/A	<0.001EU/ml	N/A	<0.001EU/ml
Particulate(≥0.02um)	<1pc/ml			
Bacteria	<0.1CFU/ml			
Rnase/Dnase**	N/A	Free	N/A	Free
Manual dispense flow rate	1.5-2.0L/min			
Automatic dispense volume	100-60000ml			
Net weight				
Main units/Water tank (30L)	24kg/7kg			
External Dimensions(WxDxH)				
Main units/Water tank (30L)	315*525*570mm/380*380*595mm			
Others				
Remote Water Dispenser	1pc			

*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;