

Genius-Lite Series



Introduction

Many laboratories require daily ultrapure water for HPLC and analytics, often just a few liters. Rather than expensive pre-bottled HPLC water that deteriorates with each opening, our Genius-Lite system offers a better solution.

Genius-Lite produces fresh ultrapure water on demand, maintaining consistent quality every time. This ensures optimal purity at just pennies per liter. Get exactly the amount of ultrapure water you need, when you need it, with the quality your work requires.

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. Smart Operation System

- Large LCD display shows real-time parameters including temperature, conductivity/resistivity, operating status, and consumables life
- Microprocessor-controlled system with automatic monitoring and alarms for all purification stages
- PIN-code protected settings prevent unauthorized changes

2. Enhanced Pretreatment Design

- Optional pretreatment column for challenging feed water (high turbidity, conductivity >400 μ S/cm)
- Integrated PP cotton and activated carbon with descaling agent extend RO membrane life
- High-capacity dual cartridge system ensures long service life

3. Advanced RO System

- DOW membrane technology provides high recovery rate and extended service life
- Automatic flush function extends membrane life by up to 50%
- Enhanced membrane support technology improves water production efficiency

4. Superior Ion Exchange

- Dual-column design with high quality resin ensures premium water quality
- Pressure-resistant structure prevents leakage
- High resin capacity extends operational lifetime

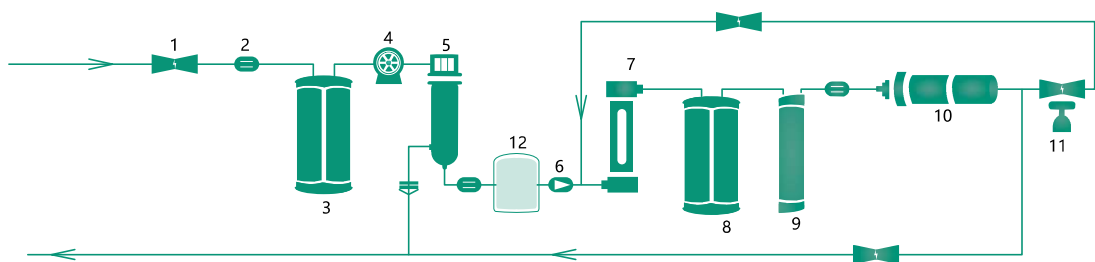
5. Space-Saving Design

- Compact unit can be installed under bench, on lab table, or wall-mounted
- Easy-access door design for simple maintenance
- Quick-connect cartridge system for rapid replacement

Configuration

Genius-Lite Series	Genius-Lite-UV	Genius-Lite-VF
Pretreatment module	○	○
High pressure pump	○	○
Reverse osmosis	○	○
UV Lamp 254 &185nm	○	○
Ultra-purification cartridge	\	○
Microfiltration cartridge	○	\
Ultrafiltration cartridge	\	○
Point-of-use filter	○	○
Internal Water Tank	○	○

Genius-Lite



1 Solenoid Valve

2 Conductivity Sensor

3 Pre-treatment Module

4 Boost Pump

5 RO Module

6 Ball Valve

7 UV Lamp

8 Purification Module

9 Ultra-Purification Module

10 Micro-Filtration Cartridge

11 Point-Of-Use Filter

12 Internal Water Tank(6L)

Technical Specifications

Model	Genius-Lite-UV	Genius-Lite-VF
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%	
Conductivity	1-20us/cm	
Productivity Rate	15L/h, 30L/h	
Ultrapurification Water(Class I)		
Resistivity At 25℃	18.2MΩ.cm	
Conductivity At 25℃	0.055us/cm	
TOC Level***	1~5ppb	
Endotoxin(Pyrogens)	N/A	<0.001EU/ml
Particulate(≥0.02um)	<1pc/ml	
Bacteria***	<0.1CFU/ml	
Rnase/Dnase**	N/A	Free
Manual dispense flow rate	1.2~1.5L/min	
Automatic dispense volume	100~60000ml	
Others		
Water tank	Intrenal 6.0L	
Net weight(Main units)	32kg	
Dimensions(W*D*H)(Main units)	315*525*570mm	

*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;

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