

# Genie PURIST

## Ultrapure water for critical laboratory applications

Quality of ultrapure water meet or exceeds ASTM, CLSI, CAP, and ISO Type I water standards.

Genie PURIST ultrapure water system produces Type I ultrapure water from RO, distilled or deionized water.

The system is manufactured in ISO 9001 : 2015 and ISO 14001:2015 certified manufacturing sites.

### Features

- Wireless communication amongst components providing unlimited possibilities
- RFID tracking of consumables and accessories to ensure optimal system performance
- On-line TOC based on complete oxidation methodology
- A full range of cartridges for various applications including ultra-low TOC, low Mg, low boron, ICP and DI type
- Eliminating bacteria and reducing TOC to trace level by a dual wavelength UV lamp
- Placement flexibility- on the bench, under the sink or wall-mounted to save valuable space within a lab
- A universal water level sensor to prevent the system from pumping air
- An optional automatic system shut-off upon detection of any water leakage
- Choices of final filters to remove specific contaminants

### Main Components



#### Command and control center

- 8-inch touch screen with highly intuitive navigation program allowing total control and easy operation of the system
- Comfortable viewing and operation with built in viewing angle and flexible placement by users
- Operable with gloves and wet hands
- Robust screen: easy to clean, resistant to scratches

### Control Console



### Dispenser

#### Smart remote dispensers

- Manual and volumetric dispensing, adjustable dispensing rate, and water quality monitoring
- Ergonomic dispenser allowing one handed operation and control
- Operable with gloves and wet hands
- Height adjustable and 360 degree rotatable on an anti-skid base



### Cartridges

#### Cartridges

- Improved stability of water quality & efficiency of polishing resins due to optimized flow design
- High pressure rated housings, proprietary sealing, and double o-ring designs ensuring operational confidence
- A worry-free installation with three verifications: color, words, and RFID recognition



- Advanced wireless communication technologies offer more freedom than ever for a remote dispenser. Its distance from the system is no longer limited by the length of cables or wires, and can be discretely set up into a hood or a clean room.
- "1+N mode" - one water system can drive N units of dispenser (Up to 10 now and can be upgraded further more).
- Genie equips with multiple touch screens which are highly responsive, water-proof, latex glove friendly, and perfect for wet labs.
- Monitoring of consumables and accessories, through RFID technology, provides users with real-time operational intelligence.
- The ability to export and print data and log-in requirements are built into all of our Genie systems.
- Feed water conductivity monitoring ensures an optimal running conditions of the system.
- A RephiBio filter can be embraced to produce pyrogen, nuclease and bacteria free water for critical applications.
- No tools are needed for system maintenance and simple service.



## Specifications

Genie PURIST	
Feed Water Requirements	
Feed water	EDI water, RO water, Distilled water, Deionized water
Operating temperature	5 - 35 °C
Feed water pressure*	0 - 1 bar (0 - 15 psi)
Product Water Quality	
Flow rate	Up to 2 L/min
Resistivity ( @25°C )	18.2 MΩ·cm
TOC level**	< 2 ppb
Particles ( > 0.2 µm)***	No Particles with size > 0.22 µm
Microorganisms***	< 0.01 cfu/ml
Pyrogens (endotoxins)****	< 0.001 Eu/ml
RNase****	< 0.5 pg/ml
DNase****	< 10 pg/ml
Dimensions	
Main system: Width × Depth × Height	30 cm × 48 cm × 51 cm
Dispenser: Width × Depth × Height	21 cm × 29 cm × 61 cm

\* It's recommended to use a pressure regulator if feed water pressure is above 15 psi (1 bar)

\*\* In the appropriate operating conditions, otherwise typically ≤5 ppb

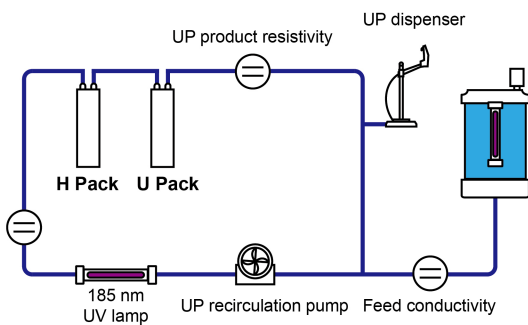
\*\*\* with a 0.2 µm final filter

\*\*\*\* with a RephiBio filter

## Main Applications

- HPLC mobile phase preparation
- Preparation of reagent blank solutions
- As sample diluent for GC, HPLC, ICP-MS, AA and other analytical techniques
- Preparation of buffers and culture media for mammalian cell culture
- Preparation of molecular biology reagents, etc.

## Flow Chart



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 pure water

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