

# Genie G

5/10/15

A single unit for Type I ultrapure & Type II pure water from tap water

This simple-to-use water system combines optimized sequence of water purification technologies in a compact unit. It offers desired solutions for research professionals who work with varieties of applications utilizing both Type I ultrapure and EDI pure water in the lab. It is fully-integrated, reliable and sustainable.

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 RO membranes to ensure optimal system performance
- On-line TOC measurement based on complete oxidation methodology
- Exceptionally consistent and predictable high purity Type II water from the best in class IonPure EDI (electrodeionization) module
- Stable RO permeability over a wide range of water temperatures
- A full range of cartridges for various applications including ultra-low TOC, low Mg, low boron, ICP and DI type
- Consistent and accurate tank water level monitoring with a built-in continuous liquid level sensor in the storage tank
- Tank recirculation model guarantees water quality in the tank
- Automatic system shut-off upon detection of any water leakage
- Placement flexibility- on the bench, under the sink or wall-mounted to save valuable space within a lab



- 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.

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## 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, labels, and RFID recognition

## Specifications

Genie G	
<b>Feed Water Requirements</b>	
Feed water conductivity / TDS	< 2000 $\mu\text{S/cm}$ / < 1000 ppm
Operating temperature	5 - 35 $^{\circ}\text{C}$
Feed water pressure	1 - 6 bar (15 - 90 psi)
<b>Product Water Quality</b>	
EDI water (Type II)	
Flow rate	5, 10, 15 L/hr
Dispenser rate	Up to 2 L/min
Resistivity ( @ 25 $^{\circ}\text{C}$ )	> 5 $\text{M}\Omega\text{-cm}$ ( typically 10 - 16 $\text{M}\Omega\text{-cm}$ )
TOC*	< 30 ppb
<b>Ultrapure water</b>	
Dispenser rate	Up to 2 L/min
Resistivity ( @ 25 $^{\circ}\text{C}$ )	18.2 $\text{M}\Omega\text{-cm}$
TOC*	< 2 ppb
Particles (> 0.2 $\mu\text{m}$ )**	No Particles with size > 0.22 $\mu\text{m}$
Microorganisms**	< 0.01 cfu/ml
Pyrogens (endotoxins)***	< 0.001 Eu/ml
RNase***	< 0.5 pg/ml
DNase***	< 10 pg/ml
<b>Product Water Quality Stored in Tank (for tank recirculation models)</b>	
Resistivity ( @ 25 $^{\circ}\text{C}$ )	> 1 $\text{M}\Omega\text{-cm}$ (default), adjustable
<b>Dimensions</b>	
Main system: Width x Depth x Height	32 cm x 44 cm x 54 cm
Dispenser: Width x Depth x Height	21 cm x 29 cm x 61 cm

\* In the appropriate operating conditions, otherwise typically  $\leq 5$  ppb.

\*\* with a 0.2  $\mu\text{m}$  final filter

\*\*\* with a RephiBio filter

EDI product water meets or exceeds Type II water quality as defined by ASTM, CAP, CLSI and ISO 3696 / BS 3997 and also complies with the Purified Water requirements from the European and U.S. Pharmacopoeia. Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP, and ISO Type I water standards.

## Ordering Info

Description	Cat. No.
Genie G 5 System, with TOC	RGOG005TO
Genie G 10 System, with TOC	RGOG010TO
Genie G 15 System, with TOC	RGOG015TO

## Main Applications

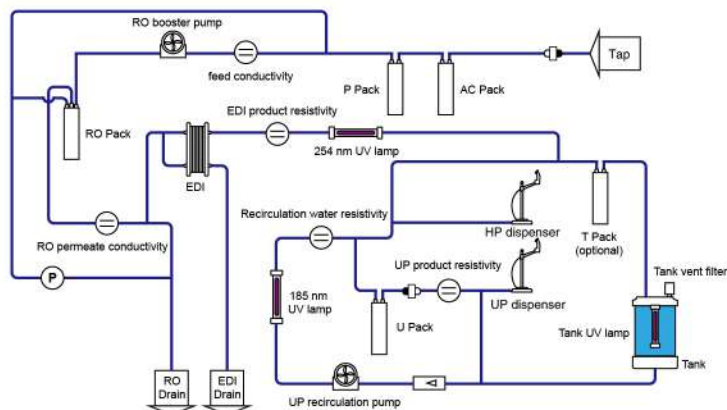
### With Ultrapure Water

- 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.

### With EDI Water

- Preparation of chemical and bio-reagents
- Preparation of culture media
- Preparation of solutions for chemical analysis such as HPLC and ICP
- For clinical analyzers
- Medical device and equipment rinsing
- For serum and blood fractionation
- For ophthalmics

## Flow Chart



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