

# Genie G

## 5/10/15

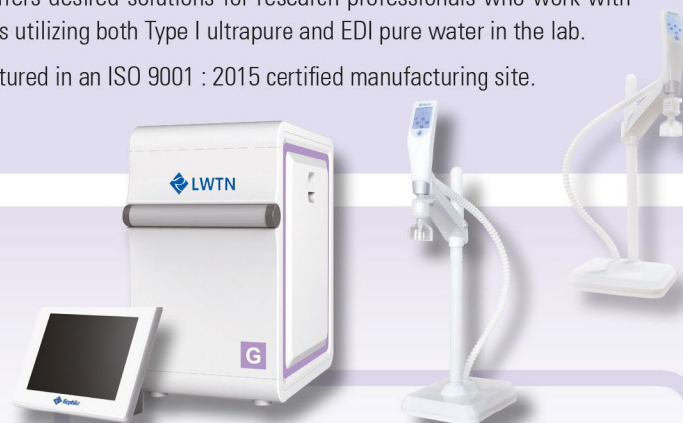
A single unit for Type I ultrapure & Type II pure water from tap water

This integrated 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.

The system is manufactured in an ISO 9001 : 2015 certified manufacturing site.

### 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
- Choices of final filters to remove specific contaminants
- Tank water level displayed from the continuous liquid level sensor of the storage tank
- Automatic system shut-off upon detection of any water leakage
- Optional tank circulation mode to keep the water quality stable in the tank



- 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 and wires.
- "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.

**NEW**

**G**

### Main Components



#### Command and control center

- 8-inch touch screen allowing easy control and 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**

#### All-in-one touch screen

- Manual and volumetric dispensing, adjustable dispensing rate, and water quality monitoring
- Compact 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

## Specifications

Genie G	
Feed Water Requirements	
Feed water conductivity / TDS	< 2000 $\mu\text{S}/\text{cm}$ / < 1000 ppm
Operating temperature	5 - 45 °C
Feed water pressure	1 - 6 $\text{kg}/\text{cm}^2$ ( 15 - 90 psi )
Product Water Quality	
EDI water (Type II)	
Flow rate	5, 10, 15 L/hr
Dispenser rate	0 - 2 L/min
Resistivity ( @ 25°C )	> 5 $\text{M}\Omega \cdot \text{cm}$ ( typically 10 - 15 $\text{M}\Omega \cdot \text{cm}$ )
TOC*	< 30 ppb
Ultrapure water	
Dispenser rate	0 - 2 L/min
Resistivity ( @ 25°C )	18.2 $\text{M}\Omega \cdot \text{cm}$
TOC*	< 5 ppb
Particles ( > 0.2 $\mu\text{m}$ )**	No Particles with size > 0.22 $\mu\text{m}$
Microorganisms***	< 0.1 cfu/ml
Pyrogens (endotoxins)****	< 0.001 Eu/ml
RNAse****	< 0.5 pg/ml
DNAse****	< 10 pg/ml
Dimensions	
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

\* Product water quality may vary due to local feed water conditions.

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

\*\*\* with a 0.2  $\mu\text{m}$  final filter or RephiBio 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	RG0G005T0
Genie G 10 System, with TOC	RG0G010T0
Genie G 15 System, with TOC	RG0G015T0

## 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

