

Large Genie G

Benchtop High Output Water Systems



Produces Type I ultrapure and EDI water from tap water

Daily pure water production up to 1,400 L from tap water

Overview

This Large Genie G system produces two types of water (Type I ultrapure water & Type II EDI pure water) with TOC monitoring. Despite its small size, Large Genie G is capable of producing large volumes of purified water with reliable quality. It is an ideal solution for users who need large quantity high quality pure water per day but have limited lab space. 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.

The systems are manufactured in ISO 9001:2015 and ISO 14001:2015 certified manufacturing sites. The systems are CE and RoHS certified.

A small footprint
to **maximize**
your lab space



Main Components



Control Console

- 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



Remote Dispenser

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



Cartridge

- Inbuilt filter, activated carbon and scale inhibitor to remove particles, chlorine and reduce hardness
- Contain mixture of activated carbon and mixed ion exchange beads
- High pressure rated housings, proprietary sealing, and double o-ring designs ensuring operational confidence
- A worry-free installation with two verifications: labels and RFID recognition



Tank

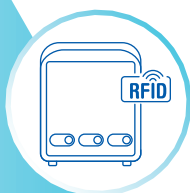
- 30/60/100/350 liters separate tank with vent filter available for selection.
- Smooth inner surface to minimize biofilm formation and algal growth
- Provision for easy cleaning and fully drainable; Spray ball installation for efficient, effective and dependable cleaning
- Unique reinforcing-bar design to prevent deformation
- Consistent and accurate tank water level monitoring with a built-in continuous liquid level sensor
- Mercury-free germicidal UVC LED lamp (peak emission wavelength at 265 nm) equipped in tank sanitization module

Features



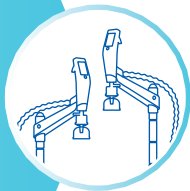
Easy-to-place

- Built-in pretreatment pack including prefiltration, chlorine removal and anti-scaling media; Generally no extra pretreatment needed
- Placement flexibility-wall-mounted, on the bench or on top of a distribution module (optional)
- Modular design. Plug and play connections for quick install



Easy-to-track

- RFID tracking of consumables, RO membranes and accessories to ensure optimal system performance and provide users with real-time operational intelligence
- Enhanced data management stores up to two years of historical information for service and review
- The ability to export and print data and log-in requirements are built into the system



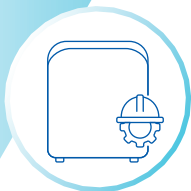
Easy-to-use

- “1+N mode” - one water system can drive N units of dispenser (Up to 10 now and can be upgraded further more).
- Stable RO permeability over a wide range of water temperatures
- Exceptionally consistent and predictable high purity Type II water from the best in class EDI (electrodeionization) module
- On-line TOC measurement based on complete oxidation methodology



Easy-to-control

- Large Genie equips with multiple touch screens which are highly responsive, latex glove friendly, and perfect for wet labs.
- Intuitive display with comprehensive data views. No need to use additional paperwork or operating checklists.
- 9 display languages for selection
- RephiLink Mobile App enables remote control of the systems



Easy-to-maintain

- No tools are needed for system maintenance and simple service.
- Automatic system shut-off upon detection of any water leakage

Main Applications

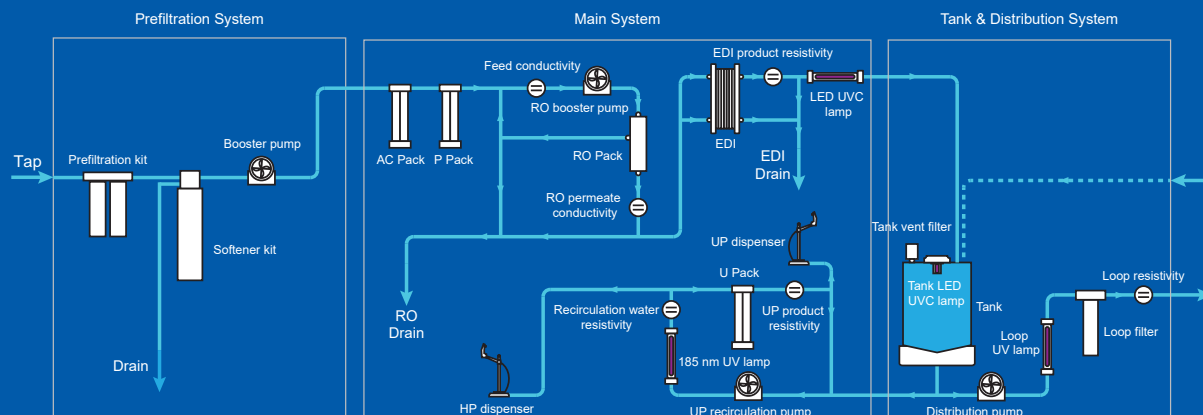
With Ultrapure Water

- 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



Specifications

Genie G	
Feed Water Requirements	
Feed water conductivity / TDS	< 2000 $\mu\text{S}/\text{cm}$ / < 1000 ppm
Operating temperature	5 - 35 $^{\circ}\text{C}$
Feed water pressure	0.2 - 0.6 MPa (2.0 - 6.0 bar)
Product Water Quality	
EDI water	
Flow rate	30, 60 L/hr
Dispenser rate	Up to 2 L/min
Resistivity (@ 25 $^{\circ}\text{C}$)	> 5 $\text{M}\Omega \cdot \text{cm}$ (Typically 10 - 16 $\text{M}\Omega \cdot \text{cm}$)
TOC*	< 30 ppb
Microorganisms	< 10 cfu/ml
Ultrapure water	
Dispenser rate	Up to 2 L/min
Resistivity (@ 25 $^{\circ}\text{C}$)	18.2 $\text{M}\Omega \cdot \text{cm}$
TOC*	< 2 ppb
Particles (> 0.2 μm)**	No Particles with size > 0.22 μm
Microorganisms**	< 0.001 cfu/ml
Pyrogens (endotoxins)***	< 0.001 Eu/ml
RNase***	< 0.5 pg/ml
DNase***	< 10 pg/ml
Dimensions & Weight	
Main system:	
Width x Depth x Height	57 cm \times 46 cm \times 71 cm
Weight (Net)	< 46 kg
Dispenser:	
Width x Depth x Height	21 cm \times 29 cm \times 61 cm
Electrical connections and specifications	
Input voltage	220 VAC
Frequency	50/60 Hz
Power	< 600 W

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

** with a 0.2 μm final filter

*** with a RephiBio filter

Ordering Info

Description	Cat. No.
Genie G 30 Water System set, with TOC	RG0G030T0K
Genie G 60 Water System set, with TOC	RG0G060T0K

* Please contact us directly for information on ordering parts and accessories.

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RephiLe Bioscience, Ltd.

Toll Free: +1-855-RephiLe (+1-855-737-4453)

E-mail: info@rephile.com

