

Genie E

5 / 10 / 15



Produces Type II water from tap water directly

Resistivity of the product water is above 5 MΩ-cm at 25 °C, which 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.

The system is manufactured in ISO 9001, ISO 14001, ISO 45001 and ISO 50001 certified manufacturing sites. The system is CE and RoHS certified.

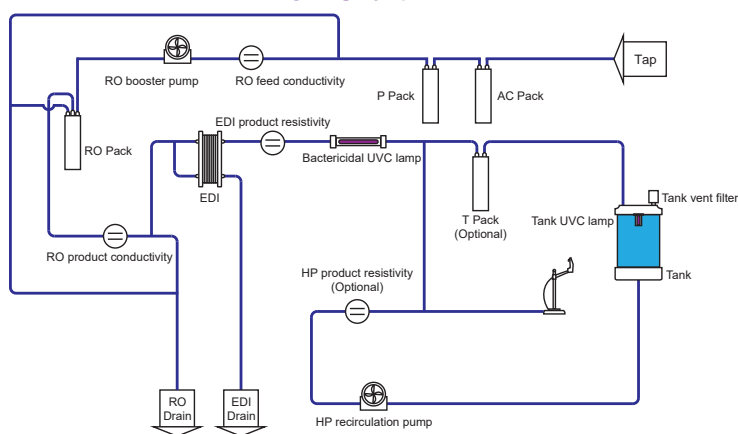
Features

- Exceptionally consistent and predictable high purity Type II water from the best in class EDI (electrodeionization) module
- Stable RO permeability over a wide range of water temperatures
- Mercury-free UVC LED (emitting at 265 nm) lamp to achieve excellent germicidal efficiency
- RFID tracking of consumables and RO membranes to ensure optimal system performance
- 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
- 9 display languages for selection

- ◆ Wireless communication amongst components providing unlimited possibilities
- ◆ A remote dispenser has a greater distance flexibility than ever before, no longer constrained by the length of cables or wires. It 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.
- ◆ 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.
- ◆ No tools are needed for benchtop installation.

E

Flow Chart



Main Applications

- 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

Main Components



Control Console



Remote Dispenser



Cartridges



Tank

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

Smart and flexible 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

Powerful key of purification

- 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

Reservoir

Specifications

	30 L Tank	60 L Tank	100 L Tank
Materials	HDPE	HDPE	HDPE
Width x depth x height	42 x 34 x 61 cm 16.5 x 13.4 x 24.0 in	42 x 34 x 85 cm 16.5 x 13.4 x 33.5 in	55 x 27 x 138 cm 21.7 x 10.6 x 54.3 in
Dry weight	7 kg	11 kg	35 kg
Operating weight	37 kg	71kg	135 kg

Ordering Info

Description	Cat. No.
Genie E 5 System	RG0E00500
Genie E 10 System	RG0E01000
Genie E 15 System	RG0E01500
Genie E 5 System, with tank recirculation	RG0E0050R
Genie E 10 System, with tank recirculation	RG0E0100R
Genie E 15 System, with tank recirculation	RG0E0150R

Specifications

Product Water Quality

Genie E	
EDI water (Type II)	
Flow rate	5, 10, 15 L/hr
Dispenser rate	Up to 2 L/min
RO rejection	97 to 98% ionic rejection (new RO cartridge), > 99% organic rejection, > 99% particulates & bacteria rejection
Resistivity (@25 °C)	> 5 MΩ·cm (typically 10 - 16 MΩ·cm)
TOC*	< 30 ppb
Silica	< 3 µg/L (< 3 ppb)
Water stored in tank (for tank recirculation models)	
Resistivity (@25 °C)	> 1 MΩ·cm (default), adjustable

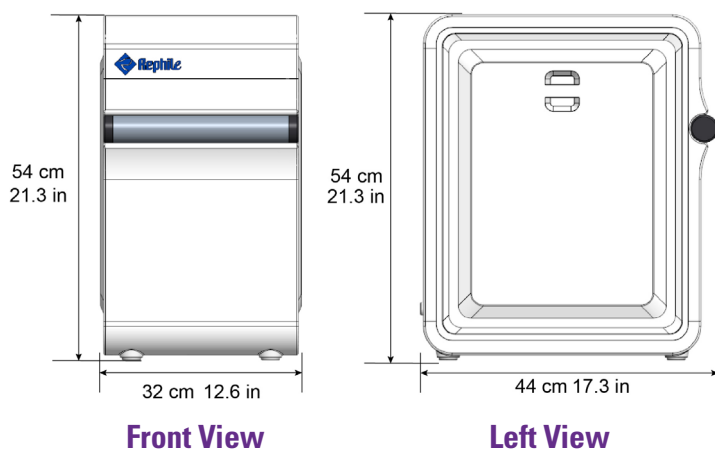
* In the appropriate operating conditions

Feed Water & Environment Requirements

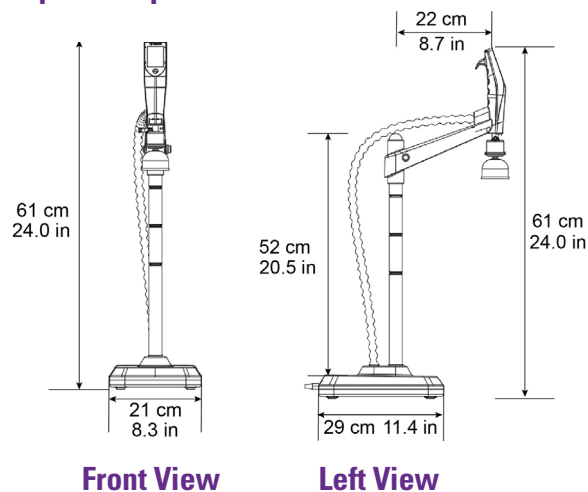
Genie E	
Feed water	Tap water
Conductivity	< 2000 µS/cm@25 °C (TDS < 1000 ppm)
Temperature	5 - 35 °C (41 - 95 F)
Pressure	0.1 - 0.6 MPa (1.0 - 6.0 bar)
pH	4 - 10
Hardness (as CaCO ₃)	< 180 mg/L (180 ppm)*
TOC	< 2000 ppb
Silica	< 30 mg/L (< 30 ppm)
Dissolved CO ₂	< 30 mg/L (< 30 ppm)
Langlier saturation index (LSI)	< 0.3
SDI	≤ 3
Free chlorine	< 1.5 mg/L (< 1.5 ppm)
Environment	
Operational temperature	5 - 45 °C (41 - 113 F)
Humidity	20 - 80%

* > 180 ppm: softener recommended

Main System Specifications



Dispenser Specifications



Genie E	
System weight	< 20 kg
Control console weight	0.75 kg
Input voltage / frequency	100 - 240 VAC / 50 - 60 Hz
Operating voltage	24 VDC
Power	< 200 W
Data connection	CAN / USB / SD / WIFI

Dispenser	
Weight	5 kg
Dispenser tubing length	1 m (3.3 ft)
Distance from main system to dispenser (wire)	3 m (9.8 ft)
Distance from main system to dispenser (wireless)	10 m (32.8 ft)
Operating voltage	24 VDC

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Literature: RFP1382606