

Direct-Pure[®] Genie

Produces Type I ultrapure and Type II pure water from tap water in a single unit

This integrated water system combines optimized sequence of water purification, delivery and monitoring technologies without compromising product water quality in a compact unit. It offers desired solutions for research professionals who work with varieties of applications utilizing Type I ultrapure and Type II pure water in the lab.

The system is manufactured in an ISO 9001 : 2008 certified manufacturing site and CE and RoHS marked.

NEW Real-time TOC and Bluetooth Now Available !



The best in class IonPure EDI (electrodeionization) module ensures delivery of superior quality Type II water consistently and reliably with no need for special maintenance or chemical regeneration.



The high quality RO module removes 95 - 99% of ions and at least 99% of all dissolved organics, bacterial and particles from the water at lower operating cost with minimum maintenance.



Unique RephiDuo polishing cartridge provides further purification steps to ensure thorough removal of ions.



A built-in germicidal 254 nm UV lamp inhibits and prevents bacterial contamination & a 185/254 nm dual wavelength UV lamp reduces trace organics before final polishing for production of low TOC water needed for organic-sensitive applications

Direct-Pure Genie

*Two-in-one Intelligent System
Optimum user convenience*



Remote Dispenser

- Built-in high precision resistivity sensor with cell constant of 0.01 cm⁻¹.
- Volumetric dispensing and calibration.
- With a 360 degree-rotatable and detachable handle.
- Height adjustable.
- With remote control and diagnosis capability from your mobile devices (for TOC models).

PE Water Reservoir



- The system can be fit with a 30 or 60-liter conical-bottomed PE tank with a liquid level sensor and a tank vent filter with CO₂ scavenger to prevent pure water from contamination by the surrounding air.
- Tank sanitization module (optional) can inhibit growth of microbes inside the tank.

Features

- Automatic cleaning cycles and self-maintenance functions for the RO membrane increase the lifetime and efficiency of the RO membranes, EDI module as well as the final polishing cartridge.
- Automatic hourly recirculation in the loop prevents bacteria growth and maintain water purity at all times.
- Flexible choices of final filters to remove specific contaminants for multiple applications.
- Large LCD screens on both the water system and the remote dispenser display critical information for instant access of system operation and performance parameters.
- EDI product water (Type II pure water) can be dispensed from both the water production unit and the reservoir, while ultrapure water is simply drawn at the push of a button on the handle of the water dispenser.

Main Applications

With Ultrapure Water

- HPLC mobile phase preparation
- Preparation of reagent blank solutions
- As sample diluent for GC, HPLC, AA, ICP-MS 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

Specifications

Direct-Pure Genie	
Feed Water Requirements	
Tap water	Municipal water, TDS < 1000 ppm (2000 µS/cm)
Operating temperature	5 - 45 °C
Feed water pressure	15 - 90 psi (1 - 6 bar)
Water Production Flow Rate	
EDI water (Type II)	5, 10, 15 L/hr
Ultrapure water (Type I)	1.5 L/min
Product Water Quality	
EDI water resistivity (@ 25°C)	> 5 MΩ·cm (typically 10 - 15 MΩ·cm)
Ultrapure water resistivity (@ 25°C)	18.2 MΩ·cm
TOC	< 5 ppb
Particles in ultrapure water (> 0.2 µm)	< 1/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Microorganisms	< 0.1 cfu/ml (with a 0.2 µm final filter or terminal ultrafiltration cartridge)
Pyrogens (endotoxins)	< 0.001 Eu/ml (with a terminal ultrafiltration cartridge)
Dimensions	
Main System Length x Depth x Height	30 cm × 51 cm × 48 cm
Dispenser diameter x Height	22 cm × 74 cm

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 Information

Description	Catalogue Number
Direct-Pure Water System, Genie 5	RDOGP050E
Direct-Pure Water System, Genie 10	RDOGP100E
Direct-Pure Water System, Genie 15	RDOGP150E
Direct-Pure Water System, Genie 5, with TOC	RDOGP05TE
Direct-Pure Water System, Genie 10, with TOC	RDOGP10TE
Direct-Pure Water System, Genie 15, with TOC	RDOGP15TE

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