

Super-Genie U Water Stations

Centralized workstations with daily pure water production up to 7200 L from tap feed water



Super-Genie U is specifically designed to produce large volumes of RO pure water and ultrapure water directly from tap water. The purification system is created to serve as a core workstation generating purified water for a single lab facility or several labs, providing overall control and monitoring within the whole water purification network thus to ensure reliability from the very beginning.

Quality of ultrapure water meets or exceeds ASTM, CLSI, CAP, and ISO Type I water standards.

Features

- Pure or ultrapure water dispensing from dispensers
- On-line TOC measurement based on complete oxidation methodology
- Integrated control of water purification, storage, distribution as well as all other functions
- Built-in pretreatment pack including prefiltration, chlorine removal and anti-scaling media
- Optimized RO-reject water recovery loop to maximize water efficiency
- RO removes >95% of ions and large molecules; >99% of microorganisms, particles and bacteria
- Mercury-free UVC LED (emitting at 265 nm) lamp to achieve excellent germicidal efficiency
- Leak protector incorporated inside to shut down the water flow should a leak occur
- Integrated 100 L reservoir, upgradable for appropriate volume needs
- Emergency bypass loop for maximum operation reliability
- Display in multiple languages
- Microprocessor controlled system

One solution for all!

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 RO Water

- Manual cleaning and glassware rinsing
- Buffer preparation
- Glassware washers
- Humidifiers
- Water baths
- Aging tester
- Autoclave
- Laboratory animal feed

Specifications

Product Water Quality

Super-Genie U	
Water produced	RO & ultrapure water
Water production rate (@25°C)	RO: 150/300 L/hr
Dispensing rate (@25°C)	Up to 2 L/min
RO rejection	> 95% ionic rejection > 99% particulates rejection > 99% organic rejection
Pure water conductivity (@25°C)	Typically < 20 µS/cm
Ultrapure water resistivity (@25°C)	18.2 MΩ · cm
Ultrapure water TOC*	< 2 ppb
Particles in ultrapure water (>0.2 µm)	< 1/ml **
Microorganisms in ultrapure water	< 0.001 cfu/ml **
Pyrogens (endotoxins) in ultrapure water	< 0.001 Eu/ml ***

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

** with a 0.2 µm or RephiBio filter.

***with a RephiBio filter.

Main System Specifications

Super-Genie U	
Length x Depth x Height	with 100 L tank: 56 cm × 88 cm × 138 cm (22.0 in × 34.6 in × 54.3 in)
	w/o 100 L tank: 56 cm × 61 cm × 138 cm (22.0 in × 24.0 in × 54.3 in)
Weight	< 140 kg
Voltage / Frequency	220 VAC ± 10%, 50 Hz or 60 Hz
Main system power	< 1000 W
Noise level	< 70 dB at 1 meter

Ordering Information

Description	Voltage	Integrated 100 L tank	Cat. No.
Super-Genie U 150 Water System	220 VAC/50 Hz	w	RL0P01HT1
		w/o	RL0P01H00
	220 VAC/60 Hz	w	RL1P01HT1
		w/o	RL1P01H00
Super-Genie U 300 Water System	220 VAC/50 Hz	w	RL0P03HT1
		w/o	RL0P03H00
	220 VAC/60 Hz	w	RL1P03HT1
		w/o	RL1P03H00

Feed Water Requirements

Super-Genie U	
Feed water	Tap water
TDS / Conductivity	< 1000 ppm / < 2000 µS/cm
Temperature	5 - 35 °C
Pressure	2 - 6 bar (0.2 - 0.6 MPa)
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)

Operating Requirements

Super-Genie U	
Operational temperature	5 - 45 °C
Humidity	20 - 80%

Prefiltration System Specifications

RephiTEKT X	
Dimensions	90 x 70 x 120 cm
L x D x H	35.4 x 27.6 x 47.2 in
Dry Weight	230 kg
Power	600 W
Motor/Voltage	220 V, 50 Hz / 220 V, 60 Hz

Tank System Specifications

	100 L tank	350 L tank
Dimensions	55 x 27 x 132 cm	55 x 72 x 132 cm
L x D x H	21.7 x 10.6 x 52.0 in	21.7 x 28.3 x 52.0 in
Dry Weight	35 kg	80 kg
Operational Weight	135 kg	430 kg

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