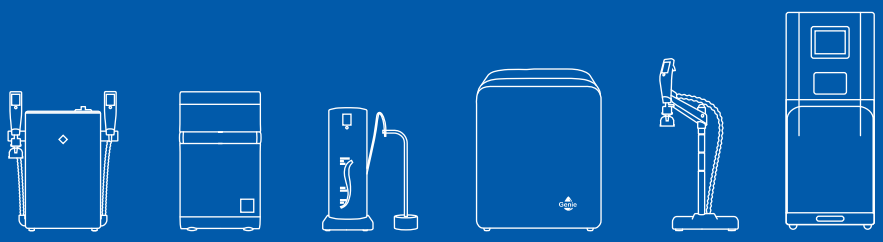
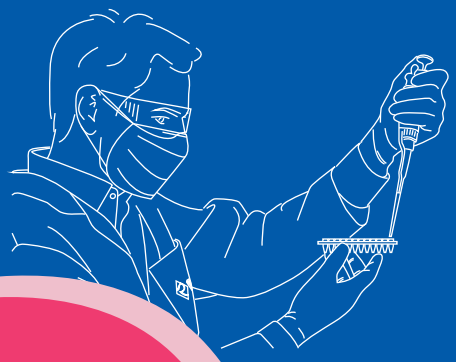
Products at a Glance



- Laboratory Water Purification Systems
- Laboratory Filtration Products
- Replacement Consumables for Millipore Systems



RephiLe Bioscience, Ltd.

Water System Selection Guide

	Product water	Ultrapure water (Type I)			Pure water			
		UP + EDI	UP + RO	UP	EDI water	CLRW	CLRW	RO water
	Feed water	Tap	Tap	Pure water	Tap	Tap	Pure water	Tap
Benchtop Systems	Production rate 5 L/hr		Genie A	NuZar Q	NuZar E10		NuZar C-DI	
		Genie G 5 / 10 / 15		Genie PURIST	Genie E 5 / 10 / 15			
			NuZar U24		NuZar H24 (DI)	NuZar C24		NuZar R24
			Genie U 12 / 24 / 32					Genie R 12 / 24 / 32
		Genie G 30 / 60	Genie U 40 / 80		Genie E 30 / 60	Genie C 40 / 80		Genie R 40 / 80
Benchside Systems	100 L/hr							
		Super-Genie G 125	Super-Genie U 150 / 300		Super-Genie E 125 / 250 / 500			Super-Genie R 150 / 300 / 600
	600 L/hr							

All systems are CE/RoHS certified and manufactured in our production facility registered by ISO 9001:2015 & ISO 14001:2015.

Series	Description	Ordering No.
NuZar	NuZar U 24 Water System set	RN0U020T1K
	NuZar Q Water System set	RN0Q00000K
	NuZar E 10 Water System set	RN0E010T1K
	NuZar H 24 Water System with tank recirculation set	RN0H020T1K
	NuZar C 24 Water System set	RN0C020T1K
	NuZar C-DI Water System set	RN0CD0000K
	NuZar R 24 Water System set	RN0R020T1K
Genie	Genie G 5 System set, with TOC	RG0G005T0K
	Genie G 10 System set, with TOC	RG0G010T0K
	Genie G 15 System set, with TOC	RG0G015T0K
	Genie De-ion Unit	RG0P0U005
	Genie U 12 System	RG0U01000K
	Genie U 12 System, with TOC	RG0U010T0K
	Genie U 12 System with tank recirculation set	RG0U0100RK
	Genie U 12 System with TOC and tank recirculation set	RG0U010TRK
	Genie U 24 System	RG0U02000K
	Genie U 24 System, with TOC	RG0U020T0K
	Genie U 24 System with tank recirculation set	RG0U0200RK
	Genie U 24 System with TOC and tank recirculation set	RG0U020TRK
	Genie U 32 System	RG0U03000K
	Genie U 32 System, with TOC	RG0U030T0K
	Genie U 32 System with tank recirculation set	RG0U0300RK
	Genie U 32 Syste with TOC and tank recirculation set	RG0U030TRK
	Genie PURIST System set	RG0S00000K
	Genie PURIST System set, with TOC	RG0S000T0K
	Genie A System set	RG0A04000K
	Genie A System set, with TOC	RG0A040T0K
	Genie E 5 System set	RG0E00500K
	Genie E 5 System with tank recirculation set	RG0E0050RK
	Genie E 10 System set	RG0E01000K
	Genie E 10 System with tank recirculation set	RG0E0100RK
	Genie E 15 System set	RG0E01500K
	Genie E 15 System with tank recirculation set	RG0E0150RK
	Genie R 12 System set	RG0R01000K
	Genie R 12 System with tank recirculation set	RG0R0100RK
	Genie R 24 System set	RG0R02000K
	Genie R 24 System with tank recirculation set	RG0R0200RK
	Genie R 32 System set	RG0R03000K
	Genie R 32 System with tank recirculation set	RG0R0300RK
Large Genie	Genie G 30 Water System set, with TOC	RG0G030T0K
	Genie G 60 Water System set, with TOC	RG0G060T0K
	Genie U 40 Water System set, with TOC	RG0U040T0K
	Genie U 80 Water System set, with TOC	RG0U080T0K
	Genie E 30 Water System set	RG0E03000K
	Genie E 60 Water System set	RG0E06000K
	Genie C 40 Water System set	RG0C04000K
	Genie C 80 Water System set	RG0C08000K
	Genie R 40 Water System set	RG0R04000K
	Genie R 80 Water System set	RG0R08000K
Super-Genie	Super-Genie G 125 Water System	RL0G01H00
	Super-Genie G 125 Water System with a 100L tank	RL0G01HT1
	Super-Genie U 150 Water System	RL0P01H00
	Super-Genie U 150 Water System with a 100L tank	RL0P01HT1
	Super-Genie U 300 Water System	RL0P03H00
	Super-Genie U 300 Water System with a 100L tank	RL0P03HT1
	Super-Genie E 125 Water System	RL0E01H00
	Super-Genie E 125 Water System with a 100L tank	RL0E01HT1
	Super-Genie E 250 Water System	RL0E02H00
	Super-Genie E 250 Water System with a 100L tank	RL0E02HT1
	Super-Genie E 500 Water System	RL0E05H00
	Super-Genie RO 150 Water System	RL0R01H00
	Super-Genie RO 150 Water System with a 100L tank	RL0R01HT1
	Super-Genie RO 300 Water System	RL0R03H00
	Super-Genie RO 300 Water System with a 100L tank	RL0R03HT1
	Super-Genie RO 600 Water System	RL0R06H00

The product water of RephiLe systems meet or exceed requirements as described by the organizations below:

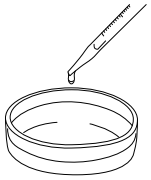
Ultrapure water
- ASTM D 1193-2006 Type 1 water
- ISO 3696:1995 Grade 1 water

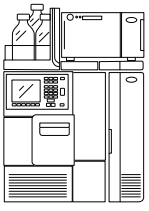
EDI water
- ASTM D 1193-2006 Type 2 water
- ISO 3696:1995 Grade 2 water
- USP / EP purified water

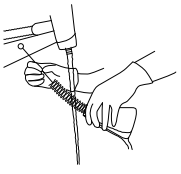
CLRW
- CLSI Clinical Laboratory Reagent Water

Pure Water Applications

Applications	Ultrapure water	EDI water	CLRW	RO water
AA	●			
Electrochemistry	●	●		
Electrophoresis	●			
Endotoxin analysis	●			
GC-MS	●			
GF-AAS	●			
HPLC	●			
Hybridisation	●			
IC	●			
ICP-AES	●			
ICP-MS	●			
Immunocytochemistry	●			
Mammalian cell culture	●			
Molecular biology	●			
Monoclonal antibody research	●			
PCR	●			
Plant tissue culture	●			
Sample dilution and reagent preparation	●	●		
Solid phase extraction	●			
Spectrophotometry	●			
TOC analysis	●			
Trace metal detection	●			
Water analysis	●			
Bacterial cell culture		●		
Buffer and media preparation		●		
Clinical biochemistry		●		
Culture media		●		
Electrophysiology		●		
ELISA		●		
Endoscopy		●		●
Environmental chambers & plant growth rooms		●		
Feed to ultra pure water systems		●		●
Flame-AAS		●		
General chemistry		●		
Histology		●		
Hydroponics		●		
Media preparation		●		
Microbiological analysis		●		
Ophthalmics		●		
Qualitative analyses		●		
Radioimmunoassay		●		
Steam generation		●		
Serum and blood fractionation		●		
Automatic medical device			●	
An interface between syringe and sample			●	
Clinical analyzers			●	
Dilution of clinical reagents			●	
Feeding washing stations for probe tips			●	
Reaction cuvettes cleaning			●	
Temperture controlled incubator baths			●	
Autoclave				●
Feed to stills				●
Feed water for laboratory animals				●
Model animal feeding				●
Washing machine for glassware				●
Water bath water				●







Laboratory Water Systems

RephiLe water technology platforms include continuous electro-deionization (CEDI) technology as well as the other advanced purification tech nologies to meet the needs of various laboratories and pilot production requirements. In addition to optimized flow paths, each water system comes with a sophisticated process control management, which provides continuous purity monitoring after every purification step, so that an overall consistent and reliable performance can be achieved. The application of the internet of things technology in RephiLe water systems again offers improved efficiency and expanded freedom to laboratory professionals.

RephiLe provides a full range of lab water systems for small to medium size applications, water production from 5 to 600 liters per hour.

Main product series:

Superior performance, while easy to use.

NuZar Benchtop Water Systems

All-in-one. Competitive cost of ownership

Genie Benchtop Water Systems

Forward-looking design. Powerful

Large Genie Benchtop Water Systems

High output. Daily water production up to 1,900 liters

Super-Genie Centralized Workstations

Highly integrated. Small footprint. Fully-featured.

NuZar Water Systems

All-in-one design. Reliable, Stable, Traceable and Predictable

NuZar integrated water systems are powerful, intelligent, and compact with small footprint. They are specially designed for laboratories that demand a balance between cost of ownership and exceeding their purified water requirements.
The systems are easily integrated in the laboratory. They can be placed on a bench or on the wall.
Two alternative dispenser heights are provided, giving maximum convenience to users.

Main Features

- Simple Plug-N-Play installation and easy maintenance
- Ergonomic dispenser with a 2.4" color touch screen: Intuitive display
- Dispenser is available in 2 height options (upper or lower) for flexible placement
- Environmentally friendly: Mercury-free germicidal UV lamp preinstalled in tank sanitation module
- All-in-one design: An in-built single pretreatment P Pack & a 10 L integrated tank (NuZar U/E/H/C/R)
- Competitive cost and low running cost

Main Components

Cartridges

Dispenser

Tank

7 configurations: U / Q / E / H / C / C-DI & R

Feed Water Pure	Feed Water Tap		Product Water Ultrapure	Product Water Pure	
	●	NuZar U24	●	●	(RO: 24 L/hr)
●		NuZar Q	●		
	●	NuZar E10		●	(EDI: 10 L/hr)
	●	NuZar H24		●	(DI: 24 L/hr)
	●	NuZar C24		●	(CLRW: Max. 2 L/min)
●		NuZar C-DI		●	(CLRW: Max. 2 L/min)
	●	NuZar R24		●	(RO: 24 L/hr)

Small foot-print

RFID technology

Data traceability

Low running cost

Environmentally friendly

NuZar U24 Water Systems

Ultrapure & RO water

With two dispensers and a 10 L quality HDPE tank (extendable), NuZar U24 can deliver up to 2 liters of ultrapure water per minute and produce 24 liters of RO water per hour.

Highlights

- Two dispensers. One for ultrapure water (UP) and the other for RO pure water (HP)
- Automatic RO membrane cleaning cycles (Cl, and pH cleaning)
- Suitable for HPLC mobile phase preparation and sample dilutions for GC, ICP-OES, etc.

NuZar Q Water Systems

Ultrapure water

NuZar Q ultrapure water system delivers up to 2 liters of ultrapure water per minute.

Highlights

- Automatic hourly recirculation of ultrapure water
- Choice of final filters: RephiBio and 0.2 um final filter
- Equipped with one ultrapure water dispenser
- A universal feed water level sensor (with an accuracy of 1%) to prevent the system from pumping air (Optional)

NuZar H24 Water Systems

De-ionized pure water

NuZar H24 produces 24 liters of DI water from tap water per hour.

Highlights

- Highly-efficient DI cartridge
- Equipped with an automatic tank recirculation mode to guarantee tank water quality
- Ensure a steady high quality of DI pure water. Always ready to use

NuZar C24 Water Systems

Clinical laboratory reagent water

NuZar C clinical water system produces up to 24 liters of clinical laboratory reagent water from tap water per hour.

Highlights

- A good match for bench top clinical analyzers or multiple analyzers
- A 0.22 um membrane filter (2.5 in) or an ultrafiltration filter can be used at the analyzer inlet to reduce the bacterial contamination risk

Genie Water Systems

Genie is a powerful and revolutionary laboratory water purification product line from RephiLe. Apart from its elegant appearance, it utilizes modern technologies to bring outstanding user experience to your lab.

Main Features

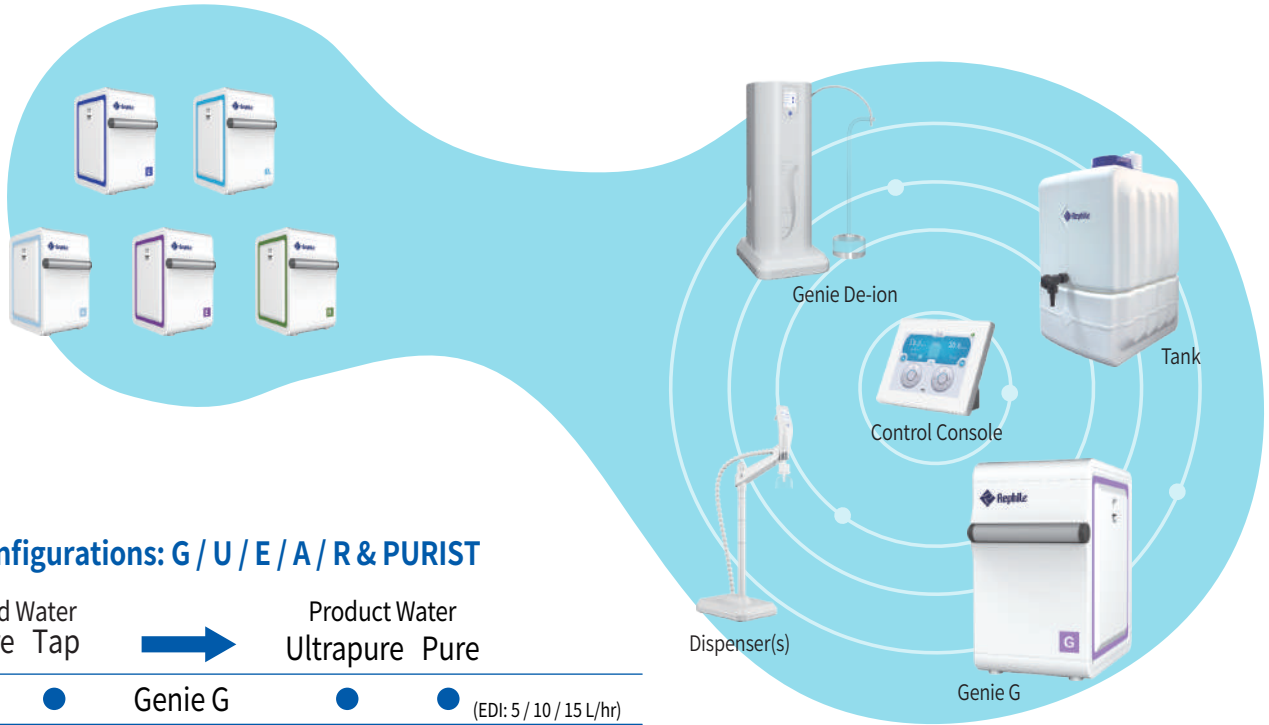
- More freedom than ever. The distance of a remote dispenser from the system is no longer limited by the length of cables or wires, and can be discretely set up into a hood or a cleanroom
- Placement flexibility- on the bench, under the sink or wall-mounted to save valuable laboratory space
- Monitoring of consumables and accessories through RFID technology provides users with real-time operational intelligence
- A RephiBio filter can be embraced to produce pyrogen, nuclease and bacteria-free water for critical applications
- No special tools are needed for system maintenance. Simple service
- 9 display languages for selection

1+N mode

- 1 main system can drive N units of dispensers (Up to 10 now, upgradeable)
- 1 control console manages set-up of all peripheral devices.

Comprehensive process control

- Continuous water quality monitoring after every purification step for reliable operation
- Multiple touch screen control
- Highly responsive touch screens
- Latex glove-friendly & perfect for wet labs



6 configurations: G / U / E / A / R & PURIST

Feed Water Pure	Feed Water Tap		Product Water Ultrapure	Product Water Pure	
	●	Genie G	●	●	(EDI: 5 / 10 / 15 L/hr)
	●	Genie U	●	●	(RO: 12 / 24 / 32 L/hr)
●		Genie PURIST	●		
	●	Genie A	●	●	(UP/RO: 0.5 L/min)
	●	Genie E		●	(EDI: 5 / 10 / 15 L/hr)
	●	Genie R		●	(RO: 12 / 24 / 32 L/hr)

Genie G Water Systems

Ultrapure & EDI pure water

This simple-to-use water system combines an 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.

Highlights

- On-line TOC measurement
- Exceptionally consistent and predictable high purity of product water
- Continuous and accurate tank water level monitoring
- Mercury-free germicidal LED UV lamp for in-line UV disinfection and in TSM
- Tank circulation mode available

Equipped with EDI module
Fully-integrated, reliable & sustainable

Genie PURSIT Water Systems

Ultrapure water

The system produces Type I ultrapure water from purified water (RO, EDI, deionized or distilled water) for demanding applications.

Highlights

- On-line TOC measurement
- Integrated feed water conductivity sensor
- An optional feed water level sensor to prevent the system from pumping air, suitable for all water containers of different size and shape

Easy to use & control
Reliable performance

Genie A Water Systems

Ultrapure water & RO water

Requiring no water reservoir, Genie A generates ultrapure water and RO water on demand from tap water. It is a cost-saving replacement of bottled water with traceable data, also an ideal choice for users who need up to 20 liters of ultrapure water or RO water per day.

Highlights

- On-line TOC measurement
- No storage tank needed, eliminating potential contamination
- Compact and space-saving
- Consistent and stable RO permeability over a wide range of temperature

Plug-and-play
No storage tank required

Large Genie High Output Benchtop Water Systems

A small footprint to maximize your lab space with daily production up to 1,900 L

The Large Genie series is a mini high output water purification system.
It is an ideal solution for users who need large quantity high quality pure water per day but have limited lab space. The system potentially can have a positive impact on your overall operational costs and helps improving the profitability position of your facility.

Main Features

- Compact design with high efficiency components and optimized combination of functional parts
- Mercury-free germicidal LED UV lamp in tank sanitization module and in-line UV disinfection.
- Deposit desired EDI water set-up: Diversion to drain if EDI permeate fails to pass the setting point of quality. Especially for pharmaceutical companies. Free to switch on/off. (Genie G/E)
- Placement flexibility- on the bench, wall-mounted or stacked on the purificiation & distribution module
- RephiLink for remote control and monitoring

Compact size

Low noise

Light weight

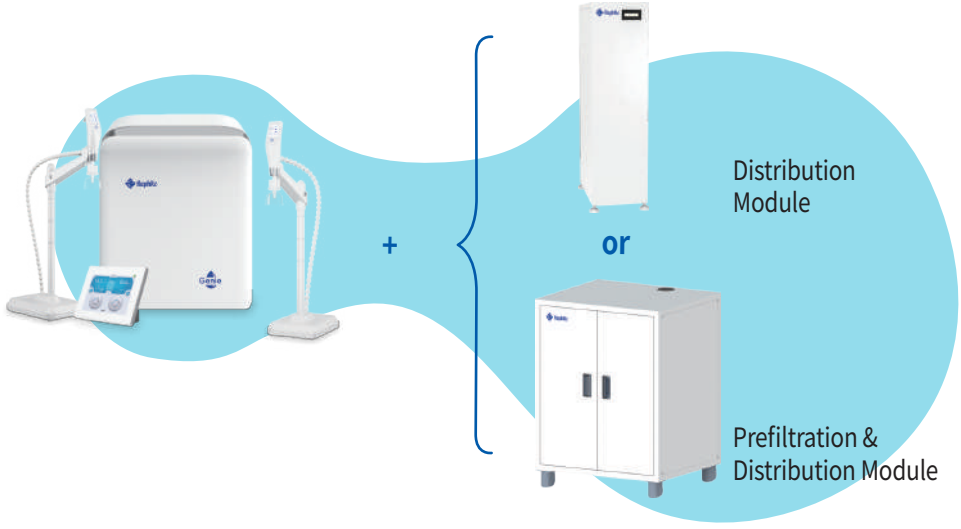
Low shipping cost

Environmentally friendly

5 configurations: G / U / E / C & R

G & U produce two types of water from one system with TOC monitoring.

Feed Water Tap		Product Water Ultrapure	Pure
●	Genie G	●	● (EDI: 30 / 60 L/hr)
●	Genie U	●	● (RO: 40 / 80 L/hr)
●	Genie E		● (EDI: 30 / 60 L/hr)
●	Genie C		● (CLRW: Up to 2L/min)
●	Genie R		● (RO: 40 / 80 L/hr)



Genie C Water Systems

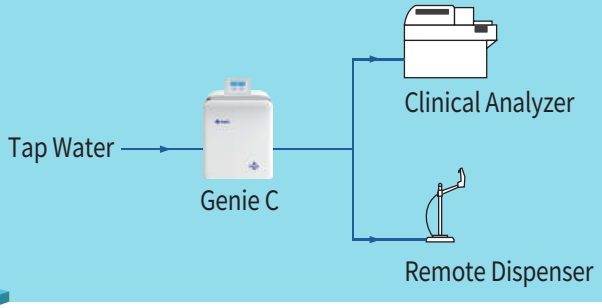
Clinical laboratory reagent water

Clinical Laboratory Reagent Water (CLRW) deliver rate: Up to 2 L/min

Connect directly to analyzers

Highlights

- A good match for clinical analyzers or multiple analyzers
- A 0.22 um membrane filter (2.5 in) is used at the analyzer inlet to reduce the bacterial contamination risk
- Mercury-free germicidal LED UV lamp for in-line UV disinfection and in TSM
- Equipped with tank recirculation loop



An overall control of all peripheral devices, from feed water to distribution loop

Genie E Water Systems

EDI pure water (Type II water)

EDI pure water (Type II water) production rate: 30 / 60 L/hr

Equipped with EDI drain set-up function

Highlights

- Built-in pretreatment pack: AC Pack & P Pack
- Deposit desired EDI water set-up
- Mercury-free germicidal LED UV lamp for in-line UV disinfection and in TSM
- Equipped with tank recirculation loop

Super-Genie Water Systems

Centralized workstations with daily pure water production up to 14,000 L from tap feed water

At a 0.5 m^2 small footprint with a low noise level,
Super-Genie can be placed at benchside to feed the entire lab.

Quiet with a small footprint, Super-Genie systems are suitable for those who need pure water in high quality and large quantity, designed for a single lab facility or several labs with production up to 14,000 L daily.

It is the most integrated centralized and fully-featured water system in the industry, meeting variable requirements from low to high volume water usage.

Main Features

Convenient

- Intuitive modular design with a high degree of integration
- Dispensing pure and ultrapure water from dispensers
- Water qualities and operation parameters displayed on an 8" color touch screen
- No tools needed to replace consumables, making maintenance convenient
- RephiLink App for remote control and monitoring

Reliable

- Cutting-edge technologies in the design ensure system reliability and stability
- One command center for all peripheral devices, from feed water to distribution loop, ensures smooth operations
- On-line TOC measurement based on complete oxidation methodology
- Enhanced data management stores up to 2 years of historical information for service and review
- Optional emergency bypass switches quickly to maintain water production for hours

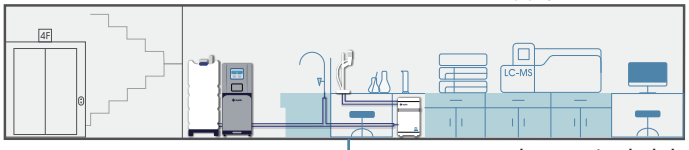
Cost-effective

- Ultrapure water production integrated in the system. One system for generating two kinds of water available.
- Easy installation, use and maintenance with less costs
- Integrated 100 L reservoir saving precious lab space
- A small footprint taking less lab space

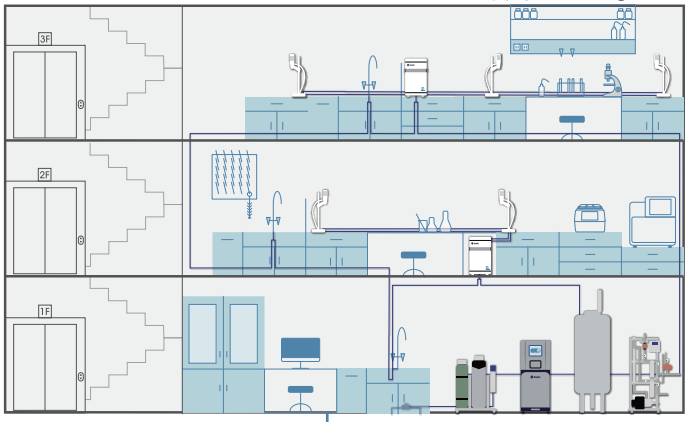
A Benchside Water Station for Your Daily Use

- **A large system that lives in your lab**
- **Easy & convenient delivery of water**
- **Easy maintenance & increasing productivity**

Water supply to one floor



Water supply to a single lab



Water supply to several floors

4 configurations: G / U / E & R

Feed Water		Product Water	
Tap		Ultrapure	Pure
●	Super-Genie G	●	● (EDI: 125 L/hr)
●	Super-Genie U	●	● (RO: 150 / 300 L/hr)
●	Super-Genie E		● (EDI: 125 / 250 / 500 L/hr)
●	Super-Genie R		● (RO: 150 / 300 / 600 L/hr)

Maximum production rate:

EDI - 500 L/hr

RO - 600 L/hr

Super-Genie G

- Produces ultrapure & EDI water from tap water
- EDI water production rate reaches 125 L/h
- Ultrapure water dispensing rate up to 2 L/min
- On-line TOC measurement based on complete oxidation methodology

Super-Genie E

- Produces EDI water from tap water directly
- Production rates range from 125 to 500 L/h
- Dispensing rate up to 2 L/min

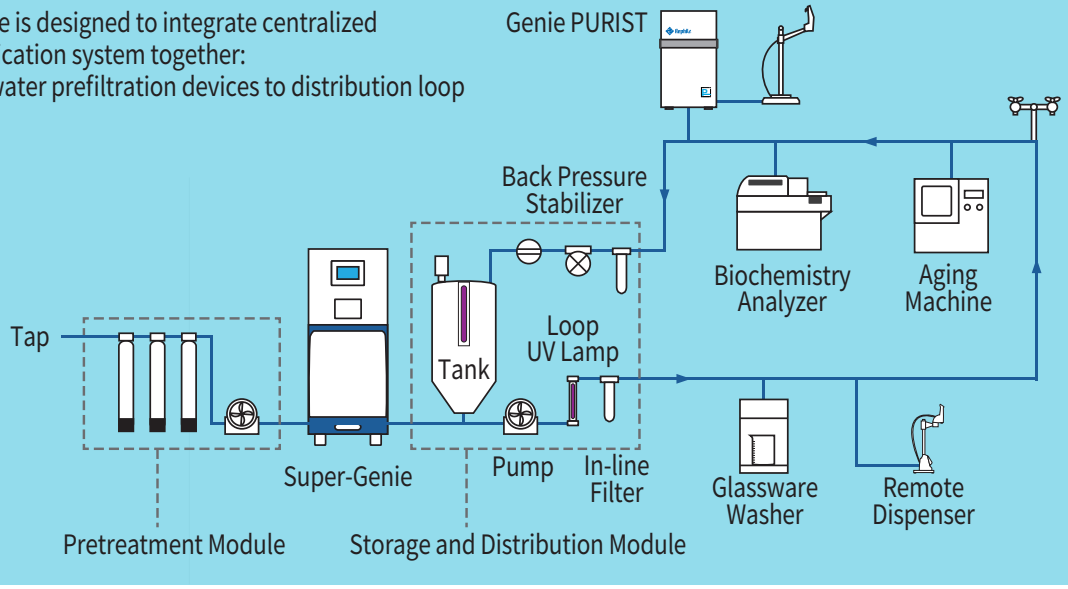
Super-Genie U

- Produces ultrapure & RO water from tap water
- RO water production rates range from 150 to 300 L/h
- Ultrapure water dispensing rate up to 2 L/min
- On-line TOC measurement based on complete oxidation methodology

Super-Genie R

- Produces RO water from tap water
- Production rates range from 150 to 600 L/h
- Dispensing rate up to 2 L/min

Super-Genie is designed to integrate centralized water purification system together:
from feed water prefiltration devices to distribution loop



Parts & Accessories

Main Components

Control Console

Command and control center

- 8" 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

Remote dispenser with a 2.4" touch screen

- 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 degrees rotatable on an anti-skid base

Cartridges

Powerful key of purification

- Improved stability of water quality & efficiency of polishing resins through an 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 to prevent incorrect installation

RephiLink App
Free up your time !

To help you keeping an eye on your Genie water systems from anywhere with an internet connection.

Scan to Add

Personal Account

System Parameters

Data Tracking

Getting Support

With RephiLink, you can

- Access or monitor system via a smartphone, a tablet or a lap top
- Review instrument performance and status remotely
- Receive alarm notifications and make the right decisions to minimize system downtime
- Have instrument history at hand

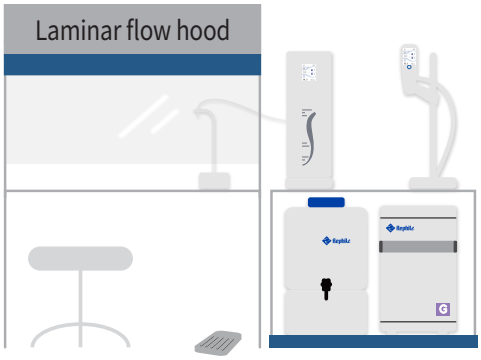
Accessories

Dispenser Kit

Genie De-ion Unit

A water purification & dispensing kit for trace & ultra-trace element analyses

As an essential addition to Genie water purification system portfolio, Genie De-ion not only further purifies upstream ultrapure water, but also provides secure delivery of elemental controlled purified water for technical-challenging applications, elemental contaminants down to ppt and sub-ppt levels.
The kit is adaptable to RephiLe ultrapure water systems.



A Genie system can be placed -

- on the bench
- under the sink
- wall-mounted

Footswitch:
Hands-free water delivery
Minimum contamination risk

A proved big helper for ICP-MS, trace IC or any other highly challenging analysis technique

Highlights

- ICP ultra-purification cartridge dedicated to ultra-trace element analysis
- Intuitive operation menu displayed on a 2.4" built-in color touchscreen
- Compact. Easy integration into a laboratory space
- Multiple choices to dispense water. Maximum safety and convenience

RephiBio Filter

Point-of-use filters for pyrogen, nuclease and bacteria free water

- Effective and efficient removal of pyrogen, RNases, DNases and bacteria
- No need for DEPC treatment of water during any application. Time and cost saving, minimized risks
- Ease of maintenance -easily fitted and replaced
- With a protective end-ball
- Integrity tested

Reservoir

HDPE tanks (30/60/100/350 L) to provide reliable protection of purified water

- Opaque construction and smooth inner surface to minimize biofilm formation and algal growth
- No dead volume thanks to cylindrical shape and conical bottom design. Easy in emptying and cleaning
- Compact design of mercury-free germicidal UVC LED sanitization module to effectively reduce bacterial proliferation inside the tank

Memo

About RephiLe Bioscience: Revolution in Filtration

Driven by innovation and quality, RephiLe is a dedicated provider of water purification systems and laboratory filtration products. RephiLe also produces comprehensive consumables that can be used in Millipore lab water systems with reliable performance. It is our commitment to becoming a partner of choice for customers in the area of life science and biotechnology.

RephiLe is striving to bring superior quality, high value and innovative purification tools to enable and accelerate the advancement of the life sciences and technologies. Products are being sold into 100 countries worldwide.

www.rephile.com

RephiLe Bioscience, Ltd.
Toll Free: +1-855-RephiLe (+1-855-737-4453)
For any further information,
please contact us by info@rephile.com

All rights reserved © 2023 RephiLe Bioscience, Ltd.
RephiLe, Genie, Super-Genie and NuZar are registered trademarks of RephiLe Bioscience, Ltd. ™ and ® may be omitted in this brochure.

Literature: RFPR1492310