

arium[®] mini – Ultrapure Water System More Time for Your Research Thanks to Unique Bagtank Technology



Bagtank Technology – Innovation for Efficient Research

Ultrapure water is the basis for every successful analysis. Yet analytical methods are becoming more and more sensitive and thus more susceptible to interference. Consistently high water quality is thus decisive for the reproducibility of results and to avoid time-consuming repeat analyses.

You can always rely on the arium[®] mini and its unique Bagtank system to deliver consistently high water quality that even exceeds ASTM Type 1 requirements. Because the results you achieve are more reliable, you save valuable time while increasing your efficiency.

As a pioneering and market leading manufacturer of disposable products for biopharmaceutical production, our success story continues: we have now integrated our innovative Bagtank technology into microdevices for daily laboratory use.

The closed Bagtank system reliably protects the pure water from secondary contamination by atmospheric components. Unlike conventional tank systems, the closed Bagtank system also prevents the formation of a permanent biofilm.

Depending on your needs, you can easily replace the bag (in just 5 minutes) and start always with a new basis every 6 months. This not only saves you immense effort and time spent cleaning and rinsing the system, you also avoid the use of chemicals.



Your arium[®] mini Benefits

Reliable

Delivers consistently high water quality for reliable and reproducible results

Intuitive

Can be operated even with gloves via a multi-colored touch display

Efficient

Avoids tank cleaning thanks to its unique Bagtank technology

Compact

With a footprint of only 28 cm in width, it fits into any laboratory environment

Your Requirements in the Focus – Comfortable Operation and Highest Quality Standards

In addition to the Bagtank, as our core feature we put a special focus on user-friendliness. With this in mind, we've equipped the arium[®] mini with a color touch screen featuring clear icons so that you can comfortably control the system – even when wearing lab gloves. This not only speeds up your workflows, it also makes them more secure thanks to active fault prevention – all in all, your daily lab work becomes easier and more efficient.

To ensure the best ultrapure water quality and the reliability of your process, we have also integrated the highest quality standards into all functional areas. For example, you can set a limit for conductivity. If this limit is exceeded, further dispensing of water will either be stopped or accompanied by a warning, as configured.





Integrated Bagtank technology – A revolution in Laboratory Water Purification

arium[®] mini is the only ultrapure water system with integrated Bagtank technology. The 5-liter bag developed for the arium[®] mini is made of the proprietary material S71. Originally developed for the pharmaceutical industry, this multilayer, specialized film conforms to the biocompatibility standards of ISO and USP. Its quality and composition allows you to optimally store your pre-treated pure water for the production of Type 1 ultrapure water.

The bag is laterally integrated into the system. This enables a footprint-reducing and compact device width of only 28 cm. The system can thus be integrated into any laboratory environment almost independently of the available space. The place of installation can also be chosen flexibly.

The integrated Aqua Stop system lets you enjoy active leakage protection while ensuring maximum safety in your laboratory.



Intelligent Technology – Systematic Ultrapure Water Purification

With intelligent technology the arium[®] mini permanently protects against secondary contamination and consistently ensures the highest water quality.

The closed Bagtank system automatically regulates pressure equalization so that no CO₂ can penetrate. This additionally prevents ion contamination and maintains consistently low conductivity. As an added benefit, you profit from particularly high cartridge capacity because there is less demand placed on the ion exchangers.

Moreover, you can prevent the formation of a permanent biofilm and thereby additional TOC loading. Depending on your requirements, you replace the bag every 6 months and simply start with a new basis.



- Easy bag replacement in less than 5 minutes
- No use of cleaning agents needed
- Practical and safe connection using quick connector

Innovative Technology Prevents Secondary Contamination

- Optimum water quality by preventing permanent biofilm
- Closed system guarantees purity
- Stable quality thanks to the special high-gas barrier multilayer S71 film

Sophisticated Power Backup Functions

- Integrated pump for increasing water pressure
- Filling arium® mini with pre-treated water: 2 minutes
- Filling arium[®] mini plus with RO permeate: 8 liters per hour



The Right arium[®] mini Version for Your Everyday Applications

arium[®] mini Standard Version – Without Direct Water Connection

The device is fed via the integrated bag, which is filled by means of a built-in pump. Pre-treated water is automatically transferred from a vessel in the bag and thus serves as feed water for the production of Type 1 ultrapure water. arium[®] mini plus

Advanced Version – with Direct Connection to the Drinking Water Supply Line

Combined with a pre-treatment stage, the device is connected directly to the potable water supply. The processed water is then produced directly into the bag. The final production of Type 1 ultrapure water is then carried out with the specially developed arium[®] Scientific purification cartridge.

Water Quality	arium [®] mini	arium [®] mini plus
Type 1 Water	•	•
Type 3 Water		•

Applications	arium [®] mini mini plus	arium $^{\circ}$ mini UV $ $ mini plus UV
Buffer and media preparation	•	•
Histology	•	
Preparation of reagents, blank samples etc.	•	•
ELISA (enzyme-linked immunosorbent assay)	•	•
AAS GF-AAS (atomic absorption spectrometry)	•	•
Photometry	•	•
SPE (solid phase extraction)		•
IC (ion chromatography)		•
LC-MS (liquid chromato- graphy-mass spectrometry)		•
GS-MS (gas chromatography coupled with mass spectrometry)		•
HPLC (high-performance liquid chromatography)		•

Services available for your arium[®] mini

Optimize the performance of your ultrapure water system and look forward to many years of trouble-free operation by availing yourself of the professional installation, extended warranty and preventive maintenance services we offer.

Our service specialists undergo continuous and thorough training in order to guarantee you'll always receive the best possible on-site service.

- Comprehensive feedwater analysis and corresponding device configuration
- Installation and startup for quick and safe usability
- Maximum safety by extended warranty
- Extended service life through regular checks tailored to your needs



Sales and Service Contacts

For further contacts, visit www.sartorius.com

Europe

Germany Sartorius Lab Instruments GmbH & Co. KG Weender Landstrasse 94–108 37075 Goettingen

Phone +49.551.308.0 Fax +49.551.308.3289

France & Suisse Romande

Sartorius France 2, rue Antoine Laurent de Lavoisier ZA de la Gaudrée 91410 Dourdan

Phone +33.1.70.62.50.00 Fax +33.1.64.59.76.39

Austria

Sartorius Austria GmbH Modecenterstrasse 22 1030 Vienna

Phone +43.1.7965760.0 Fax +43.1.7965760.24

Belgium

Sartorius Belgium N.V. Rue Colonel Bourg 105 1030 Bruxelles

Phone +32.2.756.06.90 Fax +32.2.481.84.11

Finland & Baltics

Sartorius Biohit Liquid Handling Oy Laippatie 1 00880 Helsinki

Phone +358.9.755.951 Fax +358.9.755.95.200

Hungary

Sartorius Hungária Kft. Kagyló u. 5. 2092 Budakeszi

Phone +3623.457.227 Fax +3623.457.147

Ireland

Sartorius Ireland Ltd. Unit 41, The Business Centre Stadium Business Park Ballycoolin Road Dublin 11

Phone +353.1.8089050 Fax +353.1.8089388 **Italy** Sartorius Italy S.r.I. Viale A. Casati, 4 20835 Muggiò (MB) Phone +39.039.4659.1 Fax +39.039.4659.88

Netherlands

Sartorius Netherlands B.V. Phone +31.30.60.53.001 Fax +31.30.60.52.917 info.netherlands@sartorius.com

Poland

Sartorius Poland sp.z o.o. ul. Wrzesinska 70 62-025 Kostrzyn Phone +48.61.6473830 Fax +48.61.6473839

Russian Federation LLC "Sartorius RUS" Uralskaya str. 4, Lit. B 199155 St. Petersburg Phone +7.812.327.53.27 Fax +7.812.327.53.23

Spain & Portugal

Sartorius Spain, S.A. Avda. de la Industria, 32 Edificio PAYMA 28108 Alcobendas (Madrid) Phone Spain +34.902.123.367 Phone Portugal +351.800.855.800 Fax Spain +34.91.358.96.23 Fax Portugal +351.800.855.799

Switzerland

Sartorius Mechatronics Switzerland AG Ringstrasse 24a 8317 Tagelswangen (ZH) Phone +41.44.746.50.00 Fax +41.44.746.50.50

U.K.

Sartorius UK Ltd. Longmead Business Centre Blenheim Road, Epsom Surrey KT19 9QQ Phone +44.1372.737159

Fax +44.1372.726171

Ukraine

LLC "Biohit" Post Box 440 "B" 01001 Kiev, Ukraine Phone +380.44.411.4918 Fax +380.50.623.3162

Americas

USA Sartorius Corporation

5 Orville Drive, Suite 200 Bohemia, NY 11716 Phone +1.631.254.4249 Toll-free +1.800.635.2906 Fax +1.631.254.4253

Argentina

Sartorius Argentina S.A. Int. A. Ávalos 4251 B1605ECS Munro Buenos Aires Phone +54.11.4721.0505

Fax +54.11.4762.2333

Brazil

Sartorius do Brasil Ltda Avenida Senador Vergueiro 2962 São Bernardo do Campo CEP 09600-000 - SP- Brasil

Phone +55.11.4362.8900 Fax +55.11.4362.8901

Canada

Sartorius Canada Inc. 2179 Dunwin Drive #4 Mississauga, ON L5L 1X2

Phone +1.905.569.7977 Toll-Free +1.800.668.4234 Fax +1.905.569.7021

Mexico

Sartorius de México S.A. de C.V. Circuito Circunvalación Poniente No. 149 Ciudad Satélite 53100, Estado de México México

Phone +52.5555.62.1102 Fax +52.5555.62.2942

Asia | Pacific

Australia

Sartorius Australia Pty. Ltd. Unit 5, 7-11 Rodeo Drive Dandenong South Vic 3175

Phone +61.3.8762.1800 Fax +61.3.8762.1828

China

Sartorius (Shanghai) Trading Co., Ltd. 3rd Floor, North Wing, Tower 1 No. 4560 Jinke Road Zhangjiang Hi-Tech Park Pudong District Shanghai 201210, P.R. China

Phone +86.21.6878.2300 Fax +86.21.6878.2882

Hong Kong

Sartorius Hong Kong Ltd. Unit 1012, Lu Plaza 2 Wing Yip Street Kwun Tong Kowloon, Hong Kong Phone +852.2774.2678 Fax +852.2766.3526

India

Sartorius Weighing India Pvt. Ltd. #69/2-69/3, NH 48, Jakkasandra, Nelamangala Tq 562 123 Bangalore, India Phone +91.80.4350.5250

Phone +91.80.4350.5250 Fax +91.80.4350.5253

Japan

Sartorius Japan K.K. 4th Fl., Daiwa Shinagawa North Bldg. 8-11, Kita-Shinagawa 1-chome Shinagawa-ku, Tokyo, 140-0001 Japan

Phone +81.3.3740.5408 Fax +81.3.3740.5406

Malaysia

Sartorius Malaysia Sdn. Bhd Lot L3-E-3B, Enterprise 4 Technology Park Malaysia Bukit Jalil 57000 Kuala Lumpur, Malaysia

Phone +60.3.8996.0622 Fax +60.3.8996.0755

Singapore

Sartorius Singapore Pte. Ltd 1 Science Park Road, The Capricorn, #05-08A, Singapore Science Park II Singapore 117528

Phone +65.6872.3966 Fax +65.6778.2494

South Korea

Sartorius Korea Ltd. 8th Floor, Solid Space B/D, PanGyoYeok-Ro 220, BunDang-Gu SeongNam-Si, GyeongGi-Do, 463-400

Phone +82.31.622.5700 Fax +82.31.622.5799

Thailand

Sartorius (Thailand) Co. Ltd. 129 Rama 9 Road, Huaykwang Bangkok 10310

Phone +66.2643.8361-6 Fax +66.2643.8367 Specifications subject to change without notice. Copyright Sartorius Lab Instruments GmbH & Co. KG. Printed in the EU on paper bleached without chlorine. Publication No.: SL-1542-e160101 · Order No.: 85037-553-28 · Ver. 01 | 2016



Article Specification



PB-10 Basic Bench Top pH Meter

- Automatic calibration with recognition of up to 16 buffers
- Automatic temperature compensation
- Electrode check during calibration
- Stability icon
- BNC connector for glass-membrane pH electrodes or Redox electrodes

Measuring range	
Voltage:	± 1500.0 mV
pH:	0 to + 14.00
Temperature:	$-5 \text{ to} + 105^{\circ}\text{C}$
Resolution	
Voltage:	$\pm 0.1 \text{ mV}$
pH:	± 0.01
Temperature:	± 0.1 °C
Accuracy	
Voltage:	± 0.4 mV
pH:	± 0.01
Temperature:	$\pm 0.2^{\circ}C$

- pH/mV
- Standardize
- Setup
- Enter

Dimensions (W x D x H)230x120x80 mmNet weightapprox. 2 kg

- Standard Equipment/Equipment Supplied:
- Electrode holding arm and base plate.
- pH combination Gel-filling electrode
- With integrated temperature sensor (3-in-1)

- AC adapter



