



sartorius

arium® mini Ultrapure Water Systems

Compact Laboratory Water Systems
for 10 Liters per Day

Advantages

- Reliable: Delivers consistently high water quality for reliable and reproducible results
- Intuitive: Touch-activated color display with direct access to all important dispensing options
- Innovative: With unique bagtank technology, depending on the type of system; saves time-intensive tank cleaning
- Compact: Space-saving, with a width of only 28 cm



Product Description

Compact arium® mini laboratory water systems have been designed for Type 1 ultrapure water requirements of 10 liters per day and are ideal for use in preparation of buffers, media and samples, both in life sciences applications and in analytical laboratory procedures.

A large, touch-activated screen and intuitive menu navigation ensure exceptionally easy operation. Regardless of your type of feed water available, use arium® mini or arium® mini plus featuring our unique bagtank technology or connect arium® mini essential directly to your deionized water supply line in the lab.

Reliable

To ensure that you always obtain reliable and reproducible results, the system ensures consistently high water quality. For your analytical requirements and especially critical applications, you additionally have the option of obtaining your system with an integrated UV lamp (185/254 nm) to reduce TOC to ≤ 5 ppb*.

Innovative

The most advanced bagtank technology will save you from performing time-intensive cleaning and rinsing procedures. As this eliminates the need for using chemicals that can be hazardous to your health, you will help protect the environment and increase your own safety.

Intuitive

Easily operate the arium® mini using the touch-activated color display – even when you are wearing laboratory gloves. Easy-to-understand icons will guide you through the menu for intuitive, error-free operation. Simplify your sample preparation and benefit from direct access to all important dispensing functions: manual, volume-controlled or predefined volumes (Favorites function).

Compact

With a width of only 28 cm, arium® mini will readily fit into any laboratory environment. This handy device will give you the flexibility you need in integrating it into nearly any location.

* Depends on the type of system and your feed water

Unique Bagtank Technology

The arium® mini and arium® mini plus are the only ultrapure water systems with incorporated bagtank technology, which features a 5-liter bag originally designed for the pharmaceutical industry and integrated on the side of the system. This bag enables you to optimally store your pretreated pure water in the bag for further purification to Type 1 ultrapure water.

In the process, the closed system prevents ions and gases from entering, ensuring that the conductivity remains constantly low.

Depending on your needs, you can easily exchange the bag, which thus prevents the buildup of a permanent biofilm.

arium® mini – unique quality "made in Germany"

Three Product Versions

It's your choice depending on your specific requirements:

| Type of System | Feed Water* |
|------------------------------------------|------------------------------------------------------------|
| arium® mini plus with integrated bagtank | Direct connection to tap water |
| arium® mini with integrated bagtank | Pretreated water from supply container |
| arium® mini essential | Directly connects to pretreated water line (RO DI EDI) |

* For details, see inlet water specifications.

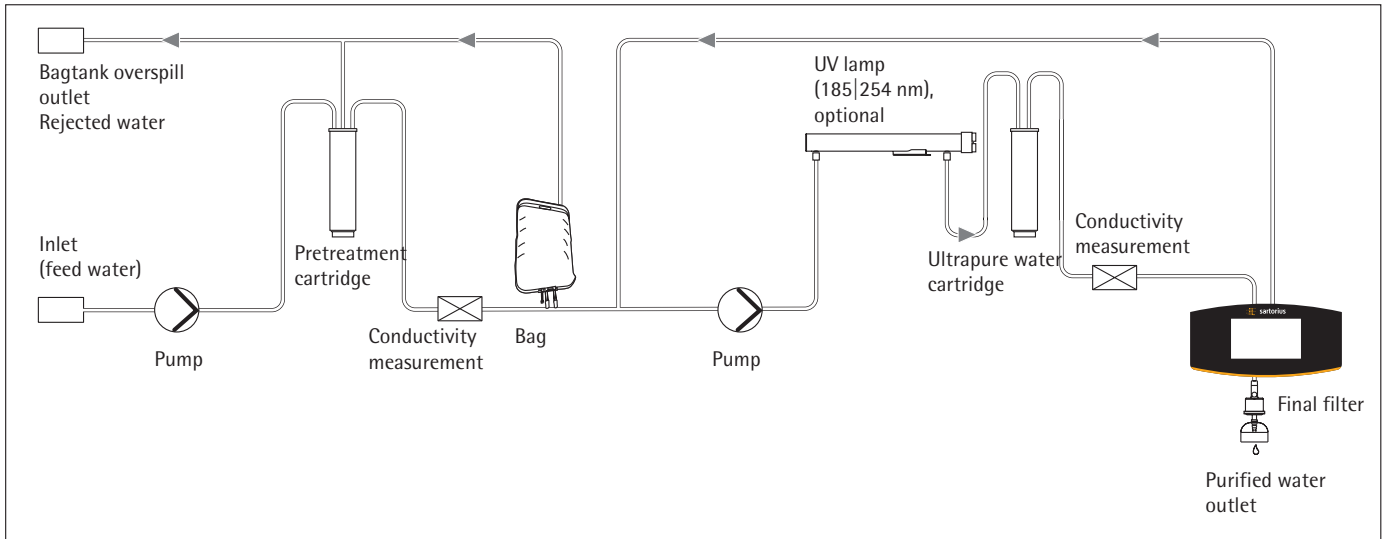
Technical Specifications

General Specifications

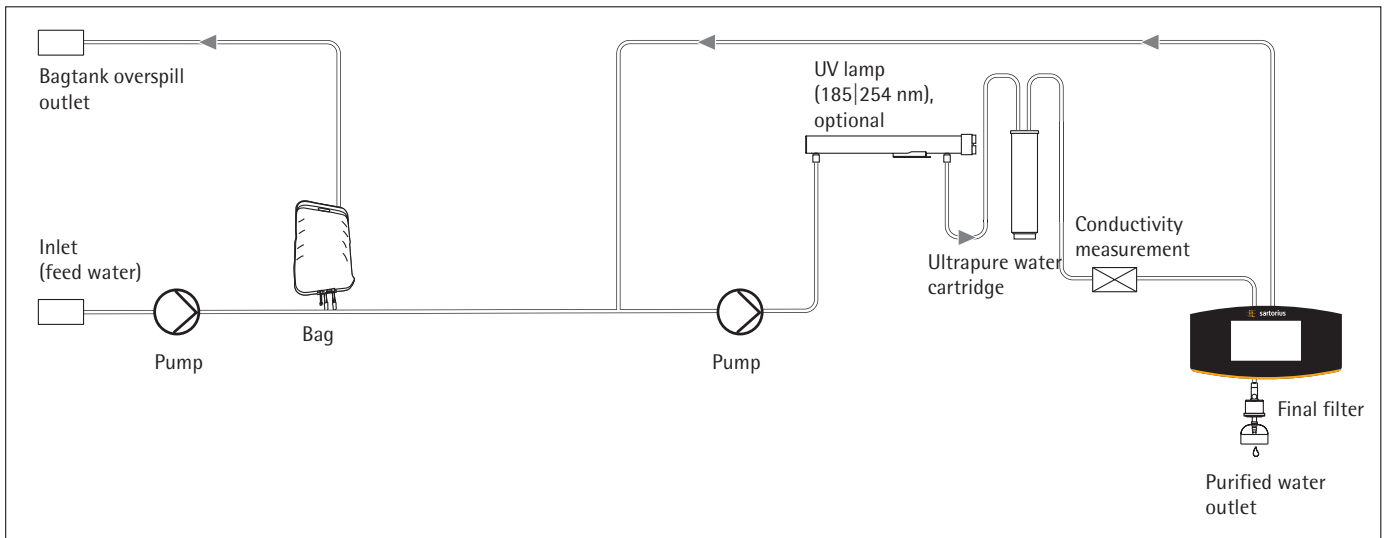
| | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water purification method | Adsorption by spherical activated carbon, catalyst, reverse osmosis, ion exchange, optional UV irradiation, and by point-of-use particle-removing filtration sterile filtration |
| Dimensions: width × height × depth | 280 × 509.4 × 530.7 mm (11 × 20 × 20.9") |
| Empty weight | Approx. 13 kg (28.6 lbs.) |
| Operating weight | Approx. 23 kg (50.6 lbs.) |
| Power supply | 100 – 240 VAC; 50 and 60 Hz, 2 A (max.) |
| Operating temperature | 2°C – 35°C at max. 80% relative humidity |
| Storage temperature | 5°C – 45°C at max. 80% relative humidity |



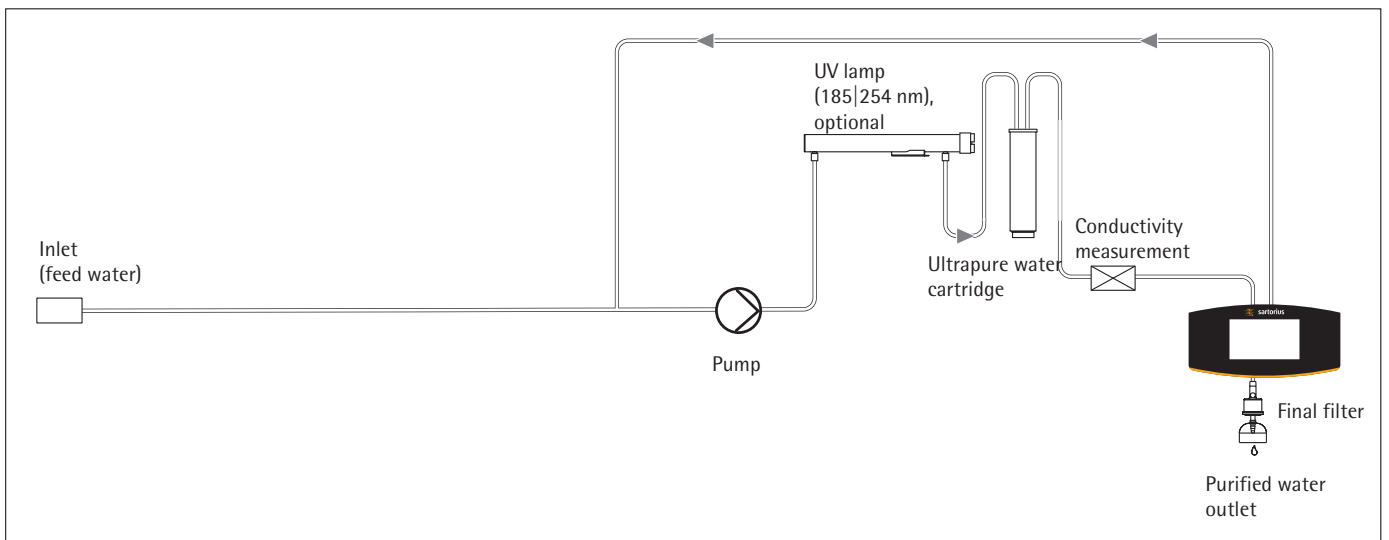
Example showing arium® mini plus with opened side cover



Flow diagram for arium® mini plus



Flow diagram for arium® mini



Flow diagram for arium® mini essential

Specifications of Water Purified by arium® mini plus

| | | |
|--------------------------------------------------------------|------------------------------------------------|------------------------------|
| Type of water | ASTM Type 1 ultrapure water | Type 3 pure water |
| Output performance for purified water ¹ | – | Up to 8 L/hr. |
| Water dispensing flow rate ² | Up to 1.0 L/min. | Pressure-free via ball valve |
| Volume-controlled dispensing ² | 50 mL increments, between 0.05 L and 5 L | – |
| Volume accuracy ³ | ± 3% between 0.25 L and 5 L | – |
| Typical conductivity | 0.055 µS/cm, compensated to 25°C ⁶ | < 20 µS/cm ⁷ |
| Typical resistivity | 18.2 MΩ × cm, compensated to 25°C ⁶ | < 0.05 MΩ × cm ⁷ |
| TOC content ⁴ (system with UV lamp) | ≤ 5 ppb | – |
| Bioburden (microorganisms) ⁵ | < 1 CFU/1,000 mL | < 1 CFU/1,000 mL |
| Particle content > 0.2 µm ⁵ | < 1/mL | < 1/mL |
| Typical ion retention | – | Up to 98% |
| Retention of dissolved organic substances (MW > 300 daltons) | – | > 99% |
| Particle and microorganism retention | – | > 99% |

Feed Water Specifications for arium® mini plus

Exclusively tap water of potable quality according to the drinking water standards of the USA, the European Union or Japan.

| | |
|-----------------------------------------------|--------------------------------------------------------------------|
| Inlet pressure | 0.5 – 6 bar (approx. 7.3 – 87 psi); recommended > 2 bar (> 29 psi) |
| Temperature | 2°C – 30°C |
| Specific conductivity | < 1,500 µS/cm, compensated to 25°C |
| TOC content | < 2,000 ppb |
| Max. total hardness (max. CaCO ₃) | 360 ppm |
| Unbound chlorine | < 4 ppm |
| Iron (total Fe content) | < 0.1 ppm |
| Fouling index (SDI) | < 10 |
| Turbidity | < 1 NTU |
| pH range | 4 – 10 |

Ordering Information

arium® mini plus for production of ASTM Type 1 Ultrapure Water and Type 3 Pure Water

Equipment supplied:

1 arium® mini plus; optionally supplied with UV lamp

| Order No. Without UV Lamp | Order No. Incl. UV Lamp | Description |
|---------------------------------|----------------------------|-----------------------------------------------------------------------------|
| H2O-MA-T | H2O-MA-UV-T | arium® mini plus, benchtop system; flow rate for Type 3 pure water, 8 L/hr. |

¹ Depending on the feed water pressure, temperature and condition of the RO modules

² Depending on the hydrostatic pressure and accessories and/or final filter connected

³ Under constant operating conditions

⁴ Determined using tap water of the municipal water supply in Goettingen, Germany; TOC approx. 1,000 ppb

⁵ If an arium® SterilePlus (Sartopore® 2 150) is used

⁶ Output of the values measured can be set to compensated to 25°C or non-compensated

⁷ Depending on the feed water

Specifications of Water Purified by arium® mini

| | |
|------------------------------------------------|------------------------------------------------|
| Type | ASTM Type 1 ultrapure water |
| Output performance for purified water | – |
| Water dispensing flow rate ¹ | Up to 1.0 L/min. |
| Volume-controlled dispensing ¹ | 50 mL increments, between 0.05 L and 5 L |
| Volume accuracy ² | ± 2% between 0.05 L and 5 L |
| Typical conductivity | 0.055 µS/cm, compensated to 25°C ⁴ |
| Typical resistivity | 18.2 MΩ × cm, compensated to 25°C ⁴ |
| TOC content ⁴ (system with UV lamp) | ≤ 5 ppb |
| Bioburden (microorganisms) ³ | < 1 CFU/1,000 mL |
| Particle content > 0.2 µm ⁴ | < 1/mL |

Feed Water Specifications for arium® mini

Water pretreated by reverse osmosis, distillation or deionization

| | |
|-----------------------|----------------------------------|
| Inlet pressure | Without pressure |
| Temperature | 2°C – 30°C |
| Specific conductivity | < 100 µS/cm, compensated to 25°C |
| TOC content | < 50 ppb |
| Turbidity | <1 NTU |
| pH range | 4 – 10 |

Ordering Information

arium® mini for production of ASTM Type 1 Ultrapure Water

Equipment supplied:

1 arium® mini; optionally supplied with UV lamp

| Order No. Without UV Lamp | Order No. Incl. UV Lamp | Description |
|---------------------------------|----------------------------|---------------------------------------------------------------------------------------------|
| H2O-MM-T | H2O-MM-UV-T | arium® mini, benchtop system, for manual feed with pretreated water from a supply container |

¹ Depending on the hydrostatic pressure and accessories and | or final filter connected

² Under constant operating conditions

³ If an arium® SterilePlus (Sartopore® 2 150) is used

⁴ Output of the values measured can be set to compensated to 25°C or non-compensated

Specifications of Water Purified by arium® mini essential

| | |
|------------------------------------------------|------------------------------------------------|
| Type of water | ASTM Type 1 ultrapure water |
| Water dispensing flow rate ¹ | Up to 1.0 L/min |
| Volume-controlled dispensing ¹ | 50 mL increments, between 0.05 L and 5 L |
| Volume accuracy ² | ± 2% between 0.05 L and 5 L |
| Typical conductivity | 0.055 µS/cm, compensated to 25°C ⁴ |
| Typical resistivity | 18.2 MΩ × cm, compensated to 25°C ⁴ |
| TOC content ⁴ (system with UV lamp) | ≤ 5 ppb |
| Bioburden (microorganisms) ³ | < 1 CFU/1,000 mL |
| Particle content > 0.2 µm ⁴ | < 1/mL |

Feed Water Specifications for arium® mini essential

Water pretreated by reverse osmosis, distillation or deionization

| | |
|-----------------------|-------------------------------------------------------------------|
| Inlet pressure | 0 – 6.9 bar; (0 – approx. 100 psi); recommended > 2 bar (>29 psi) |
| Temperature | 2°C – 30°C |
| Specific conductivity | < 100 µS/cm, compensated to 25°C |
| TOC content | < 50 ppb |
| Turbidity | < 1 NTU |
| pH range | 4 – 10 |

Ordering Information

arium® mini essential for Production of ASTM Type 1 Ultrapure Water

Equipment supplied:

1 arium® mini essential; optionally supplied with UV lamp

| Order No. Without UV Lamp | Order No. Incl. UV Lamp | Description |
|---------------------------------|----------------------------|---------------------------------------------------------------------------------------------------|
| H2O-MU-T | H2O-MU-UV-T | arium® mini essential, benchtop system; for direct connection to pretreated water supply |

¹ Depending on the hydrostatic pressure and accessories and/or final filter connected

² Under constant operating conditions

³ If an arium® SterilePlus (Sartopore® 2 150) is used

⁴ Output of the values measured can be set to compensated to 25°C or non-compensated

Consumables

arium® SterilePlus

For Sterile and Particle-Free Water Dispensing

- Excellent total throughput and flow rates
- Integrity-tested
- Validated according to HIMA and ASTM F-838-05
- Meets WFI quality standards compliant with USP, incl. USP Plastic Class VI Test
- Manufactured according to EN ISO 9001
- Easy to install
- Certified quality



Description

The arium® SterilePlus (Sartopore® 2 150) is a sterile, ready-to-use membrane filter capsule designed to meet the highest requirements. Sartopore® 2 150 filter capsules contain a hydrophilic, heterogeneous polyethersulfone double-layer membrane, delivering excellent total throughput and flow rate performance.

The capsule is attached by a quick-connect coupling to the point of use and reliably removes particles and microorganisms > 0.2 µm in the last water purification step. A hydrophobic PTFE membrane at the highest upstream point permits easy and clean venting of the capsule.

All pleated SterilePlus membrane filter units are validated as sterilizing-grade filters for biopharmaceutical use according to HIMA and ASTM F-838-05 guidelines (documents available). Each capsule is integrity-tested during the manufacturing process to ensure it meets the highest quality standards and safety regulations.

Technical Specifications | Ordering Information

| Materials | |
|----------------------------------|-----------------------------------------------------|
| Membranes | Asymmetrical polyethersulfone |
| Filling bell assembly | Polycarbonate |
| Other plastics | Polypropylene |
| Pore sizes | 0.45 µm + 0.2 µm |
| Filtration area | 0.015 m ² |
| Inlet and outlet | 1/4" plug-in connector |
| Sterilization (3 cycles max.) | Autoclavable at 134°C, 1 bar (14.5 psi), 30 min. |
| Max. diffusion | 1 mL/min. at 2.5 bar (36 psi) |
| Min. bubble point | 3.2 bar (46.4 psi) |

| Order Number | Description |
|---------------|-----------------------------------------------------------------------------------|
| 5441307H4--CE | arium® SterilePlus (Sartopore® 2 150 capsule), 0.2 µm pore size; qty. per pkg.: 5 |

Intended Use

Attached to a dispense gun or the dispensing unit below the display on the following types of laboratory water systems:
arium® mini, arium® mini essential and arium® mini plus
arium® comfort I and comfort II
arium® pro, pro DI, pro UF, pro UV and pro VF
arium® 611
arium® dispense

arium® CellPlus Ultrafilter

For Effective Removal of Endotoxins in Cell Culture Applications

- Effective removal of RNase | DNase
- Reliable removal of endotoxins
- High flow rate performance
- Certified quality
- Sterile-packaged



Description

The arium® CellPlus is a point-of-use ultrafilter for efficient removal of endotoxins, RNase | DNase, microorganisms and particles.

Designed for arium® comfort and arium® mini ultrapure water systems, this sterile-packaged ultrafilter provides the highest safety for your critical cell culture applications. A protective bell supplied with the ultrafilter additionally prevents retrograde contamination.

Moreover, the high-quality material selected for arium® CellPlus enables excellent total throughputs and optimal flow rates.

Technical Specifications | Ordering Information

| Materials | |
|---------------------------------------------------------------------|-------------------------------------------|
| Membrane | Polysulfone |
| Composite material | Polyurethane (PUR) |
| Housing | Acrylonitrile butadiene styrene (ABS) |
| Protective bell | Polycarbonate (PC) |
| Typical Specifications for Purified Water | |
| Flow rate (depends on the inlet pressure and the type of system) | Up to 2.0 L/min. |
| Endotoxins | < 0.001 EU/mL |
| Bacteria | < 1 CFU/100 mL |
| RNase concentration | < 1 pg/mL |
| DNase concentration | < 5 pg/mL |
| General Specifications | |
| Dimensions (height × diameter) | 169 mm × 50 mm (6.6" × 1.9") |
| Max. operating pressure | 6 bar (87 psi) |
| Max. inlet temperature | 50°C |
| Effective membrane area | 0.5 m ² (5.4 ft ²) |

Order Number

H2O-CUF

Description

arium® CellPlus ultrafilter; qty. per pkg.: 1

Intended Use

On the dispensing unit below the display on the following types of laboratory water systems:

arium® comfort I and comfort II

arium® mini, arium® mini essential and mini plus

arium® mini plus Pretreatment Cartridge

Reliable Protection for the Pretreatment of Feed Water

- Fast and effective adsorption of impurities by high-grade activated carbon
- Highly efficient catalyzer for removing oxidating agents such as chlorine
- Highly efficient reverse osmosis membranes; optimized water usage
- Low-energy membranes for ecological and economic operation



Description

Efficient purification is performed by a combination of activated carbon, a catalyzer and a downstream reverse osmosis membrane.

The spherical, catalytic activated carbon and an additional catalyst reliably remove oxidants, such as chlorine and ozone, heavy metal ions and particulate contaminants, from feed water.

In addition, due to the downstream reverse osmosis membrane, up to 98% of all salts, as well as bacteria and particles, are retained.

Technical Specifications | Ordering Information

| Materials | |
|-------------------------|----------------------------------------|
| Housing | High-grade polypropylene |
| Filter media | Spherical, catalytic activated, carbon |
| Dimensions [W×H×D] | 18×26×11 cm (7×10.2×4.3") |
| Operating weight | 3.5 kg (7.7 lbs.) |
| Feed water requirements | See Technical Specifications on page 3 |

Order Number

H2O-CPR

Description

arium® mini plus pretreatment cartridge; qty. per pkg.: 1

Intended Use

arium® mini plus

arium® UV Lamp (185 | 254 nm)

Ultrapure Water Free of TOC

- Horizontal installation; optimized temperature gradient
- Effective breakdown of organic compounds
- Prevents the growth of microorganisms
- Easy replacement

Description

Horizontally aligned, the UV lamp delivers especially reliable results. Unlike vertical units, the temperature gradient is less pronounced and therefore does not affect the activity of UV radiation.

With two different wavelengths, the UV lamp reliably removes total organic compounds (TOCs), efficiently preventing microbial growth. At 185 nm, organic compounds are oxidized and at 254 nm, microorganisms are killed off.



Technical Specifications | Ordering Information

| | |
|-------------------------|--------------|
| Material | Quartz glass |
| TOC for purified water* | ≤ 5 ppb |

| Order Number | Description |
|--------------|----------------------------------------------------|
| H2O-CEL1 | arium® UV lamp (185 254 nm); qty. per pkg.: 1 |

Intended Use

arium® mini, arium® mini essential and arium® mini plus

* Depends on the type of system and on the feed water

arium® Scientific Pack

Deionization Cartridge Featuring Top-Down Flow Technology

- High performance capacity due to efficient ion exchange resins
- Fast and effective adsorption of impurities by high-grade activated carbon
- Optimized flow prevents separation of the mixed-bed resin
- Patented connection method; easy exchange of consumables



Description

The cartridge kits have been optimized for removal of both organic and inorganic constituents. Each kit has been designed specifically to match the particular laboratory water system and delivers ultrapure water that exceeds the ASTM Type 1 quality standard. This consistently high-quality water ensures optimal reproducibility of your results.

Optimized filling materials, such as highly effective activated carbon along with exceptionally efficient ion exchange resins, ensure long-lasting performance and low-maintenance operation.

The top-down technology provides ideal purification kinetics, preventing any mixing of cleaning media. The cartridge has been designed for enhanced flow rate in the cross section and optimal contact time with the medium.

Technical Specifications | Ordering Information

| Materials | |
|----------------------------------------|------------------------------------------------------------------------------------------------------|
| Housing | Highly pure polypropylene |
| Filter media | Spherical, catalytic activated carbon Ultrapure mixed bed ion exchange resin, semiconductor-grade |
| Further data on purified water quality | See Technical Specifications on page 3 |

Order Number

H20-S-PACK

Description

arium® Scientific kit; qty. per pkg.: 1

Intended Use

arium® mini, arium® mini essential and arium® mini plus

arium® Bag

The Most Innovative Bagtank System

- Fast and easy replacement of the arium® Bag
- High user safety as the bagtank eliminates the need for cleaning chemicals

Description

Pure water is stored inside the laboratory water system, which reliably protects pre-treated pure water from secondary contamination.

Sartorius bagtank technology enables consistent water quality over a prolonged period, ensuring continuously reproducible results.

Unlike conventional water tanks, the arium® Bag ensures high user safety and saves time as it eliminates the need for a complicated cleaning procedure with chemicals.



Technical Specifications | Ordering Information

Materials

| | |
|--------|----------------------|
| Bag | S71 proprietary film |
| Tubing | TuFlux® |

Bag dimensions [H × W]

| | |
|-------------|----------------------------|
| 5-liter bag | 40 × 33 cm (15.7" × 12.9") |
|-------------|----------------------------|

Order Number

H20-CBS-5-S

Description

arium® 5-liter bag; qty. per pkg.: 1

Intended Use

arium® mini and arium® mini plus

Sartorius Service

We Ensure the Quality of Your Results

At Sartorius, quality products go hand in hand with professional service. With our wide service offering, we will help guarantee the safe, reliable and optimal operation of your arium® mini. Just ask us and we will even cover the entire life cycle of your laboratory water system – from commissioning to qualification to regular maintenance. Together with you, we will ensure the consistently high quality of your laboratory water purification.

Our Services at a Glance:

Installation and Commissioning

Your advantage: Your system will operate reliably at peak performance from day one

Equipment Qualification (IQ | OQ)

Your advantage: You will meet all regulatory requirements (GMP|GLP)

Regular Preventative Maintenance, Including Calibration, inspection and testing of your system and exchange of consumables

Your advantages: Optimal operation of your system; reliable results; prevention of downtime or even equipment failure

Get more information now at:
www.sartorius.com/service



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