

Arium® Mini –

Compact Ultrapure Water Systems

Simplifying Progress



Arium® Mini – Innovation for Efficient Research

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

You can always rely on the Arium[®] Mini series of laboratory water systems to consistently deliver the highest water quality.

Regardless of the type of feed water you have, use Arium® Mini or Arium® Mini Plus with our unique Bagtank technology or connect Arium® Mini Essential directly to your deionized water supply line as needed.

For even more flexibility, our Arium[®] Mini Extend versions (Arium[®] Mini Plus Extend and Arium[®] Mini Essential Extend) are equipped with a flexible, removable dispensing unit.

Type of System	Feed Water*	Water withdrawal via flexible removable dispensing unit	
Arium® Mini	Pretreated water from a supply container		
Arium® Mini Essential	Directly connects to a pretreated water supply line (RO DI EDI)		
Arium® Mini Essential Extend	Directly connects to a pretreated water supply line (RO DI EDI)	\checkmark	
Arium® Mini Plus	Directly connects to tap water		
Arium® Mini Plus Extend	Directly connects to tap water	\checkmark	

* For details, see the inlet water specifications.









Your Arium[®] Mini Benefits

Flexible

Different versions for different inlet water and connection options, as well as the desired water withdrawal

Compact

Space-saving footprint with a width of only 28 cm (+9 cm for versions with attached dispensing unit) to easily fit in any lab environment

Intuitive

Easy to operate using the touch-activated color display; with direct access to all important information dispensing options

Innovative

Depending on the type of system, our unique Bagtank technology saves time as no intensive tank cleaning with hazardous substances is required

Reliable

Delivers consistently high water quality for reliable and reproducible results; optionally available with UV lamp

Focused on Your Requirements – Convenient Operation and the Highest Quality Standards

Conveniently operate Arium[®] Mini using the touch-activated color display with self-explanatory icons – even while wearing laboratory gloves. This will not only speed up your workflows, but will also make them more accurate and reliable as a result of active error prevention – your daily lab work will become easier and more efficient.

To ensure the best ultrapure water quality and the reliability of your process, we have also implemented the highest quality standards into all functional areas. For example, you can set a limit for the purified water quality. If this limit is exceeded, further dispensing of water will be prevented or accompanied by a warning, depending on your menu configuration settings selected.

Integrated illumination for easy visual support

- Flashing light during water dispensing
- Pulse signal emitted to accompany error messages
- Dimmed light in standby mode

Intuitive menu navigation for total ease of operation

- Con-guided interface with touch-activated display
- Displays current measured values and messages
- Favorites function for repeated dispensing of identical volumes

Arium[®] Scientific pack for the highest ultrapure water quality

- The highest cartridge capacity thanks to efficient purification materials
- Optimal flow over the semiconductor-grade mixed-bed resin
- Designed for quality standard ASTM Type 1







Integrated Bagtank Technology in Arium® Mini, Mini Plus and Mini Plus Extend – A Revolution in Laboratory Water Purification

As a pioneer and market leader in the manufacture of single-use products for biopharmaceutical production, we have written the next chapter in our success story by implementing our innovative Bagtank technology in laboratory water systems.

Originally developed for the pharmaceutical industry, our disposable bag integrated as a tank system on the side of Arium® Mini, Arium® Mini Plus and Arium® Mini Plus Extend protects intermediately stored pure water reliably from secondary contamination.

The 5-liter bag, consisting of our specially manufactured proprietary S71 film material, is multilayer and compliant with ISO and USP standards for biocompatibility. With the quality and composition of the Arium® Bag, you can optimally store your pretreated pure water for later production of Type 1 ultrapure water.

Moreover, you will enjoy the benefits of active protection against leakage provided by the integrated Aqua Stop system.

Intelligent Technology – Systematic Purification to Obtain Ultrapure Water

Arium[®] Bags ensure continuous protection against secondary contamination and therefore the highest water quality at all times. The closed Bagtank system automatically regulates pressure equalization so that no CO_2 can penetrate. This additionally prevents contamination by ionic impurities and maintains consistently low conductivity.

Moreover, you can prevent the formation of a permanent biofilm, and therefore eliminate additional TOC loading by replacing the bag frequently.

5-liter Bag for minimum maintenance

- Easy bag exchange in less than 5 minutes
- No need to use chemicals for cleaning
- Practical and leak-tight connection using a quick-connect coupling

Innovative technology to prevent secondary contamination

- Optimum water quality by prevention of a permanennt biofilm
- Closed system guarantees purity
- Stable quality thanks to special multilayer S71 bag material

Well-thougt-out functions for reliable performance

- Integrated pump to increase the water pressure
- Filling Arium[®] Mini with pretreated water: 2 minutes
- Filling Arium[®] Mini Plus and Mini Plus Extend with RO permeate: 8 liters per hour



Maximum flexibility thanks to integrated, removable dispensing unit

Our Arium[®] Mini Extend versions (Arium[®] Mini Plus Extend and Arium[®] Mini Essential Extend) have an integrated, removable dispenser, providing you even more flexibility. By combining the dispensing unit with the ultrapure water system, the device remains compact and fits into any laboratory due to its small footprint.

You can operate the manual- and volume-controlled water dispensing directly from the handheld or the intuitive display. The last volume dispensed is also accessible and adjustable via both the dispensing unit and the display.

The flexible dispensing unit enables comfortable and ergonomic filling into variously sized vessels and participates in the devices water circulation to maintain consistently high water quality.

More flexibility in everyday laboratory work

- Easily removable dispensing unit with magnetic mount for ergonomic and splash-free filling into a wide variety of containers
- Control of manual and volume-controlled water dispensing from the display and the flexible dispensing unit
- Simplified recurring volume dispense
- Can be combined with Sterile Plus final filter or Cell Plus filter



The Right Arium[®] Mini Version for Your Daily Applications

Feed Water	Arium [®] Mini	Arium® Mini Essential	Arium [®] Mini Plus
		Arium [®] Mini Essential Extend	Arium [®] Mini Plus Extend
Tap water			
Pretreated water (RO DI line)		•	
Pretreated water (from supply containe	er)		
Purified Water	Arium® Mini	Arium® Mini Essential Arium® Mini Essential Extend	Arium® Mini Plus Arium® Mini Plus Extend
Type 1 water			
Type 3 water			
Applications	Arium® Mini Arium® Mini Essential	Arium® Mini UV Arium® Mini Essential UV	Arium® Mini Arium® Mini Essential
	Arium® Mini Essential Extend Arium® Mini Plus Arium® Mini Plus Extend		
General			
Buffer and media preparation			
Histology			
Preparation of reagents, blank samples, etc.		•	
ELISA (enzyme-linked immunosorbent assay)	•	•	•
AAS GF-AAS (atomic absorption spectrometry)	•	•	•
Photometry			•

Applications

Arium® Mini Arium[®] Mini Essential Arium[®] Mini Essential Extend Arium[®] Mini Plus Arium[®] Mini Plus Extend

Arium[®] Mini UV Arium[®] Mini Essential UV Arium® Mini Essential Extend UV Arium® Mini Essential Extend Arium[®] Mini Plus UV Arium[®] Mini Plus Extend UV

Arium® Mini Arium[®] Mini Essential Arium[®] Mini Plus Arium[®] Mini Plus Extend combined with Arium® CellPlus Filter

Analytic	
SPE (solid phase extraction)	
IC (ion chromatography)	
ICP-MS (inductively coupled with plasma mass spectrometry)	
GS-MS (gas chromatography coupled with mass spectrometry)	
HPLC (high-performance liquid chromatography)	
LC-MS (liquid chromatography coupled with mass spectrometry)	
UPLC (Ultra High Performance Liquid Chromatography)	
Analysis of trace elements	
TOC Analysis	
PFAS Analysis	
VOC Analysis	

Applications	Arium® Mini Arium® Mini Essential Arium® Mini Essential Extend Arium® Mini Plus Arium® Mini Plus Extend	Arium® Mini UV Arium® Mini Essential UV Arium® Mini Essential Extend UV Arium® Mini Plus UV Arium® Mini Plus Extend UV	Arium® Mini Arium® Mini Essential Arium® Mini Essential Extend Arium® Mini Plus Arium® Mini Plus Extend combined with Arium® CellPlus Filter
Life Science Molocular Biology			
Electrophoresis			
Endotoxin analysis			
Immunocytochemistry			
PCR RT-PCR (polymerase chain reaction)			•
DNA Sequenzing			
Nutrient media for mammalia cell culture			•
Northern Blot			
Southern Blot			
Western Blot			
NGS (Next-Generation Sequencing)			



Sartorius Services

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 performance of your Arium[®] Mini. Just ask us and we will even cover the entire life cycle of your laboratory water system – from commissioning to equipment qualification to regular maintenance. Together with you, we will ensure the consistently high quality of your laboratory water purification.

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

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