

# arium<sup>®</sup> advance EDI

**Ultimate Reliable Electrochemical Deionization** 



arium® advance EDI Type 2 pure water system

### Description

The arium<sup>®</sup> advance EDI provides Type 2 water in consistently high quality. The innovative iJust makes the best use of environmental resources by automatically optimizing water consumption. Unlike conventional water purification systems, the unique display with touch functions in combination with the intuitive menu navigation ensures easy operation.

With a flow rate of up to 10 l/h, the automatic RO membrane backflush, the latest EDI technology and a constant flow rate, the arium<sup>®</sup> advance EDI is the optimal choice for both routine and demanding applications.

### Applications

- Microbiological media & reagents
- Solutions for chemical analysis and synthesis
- Histology
- ELISA, RIA
- Buffer solutions
- Feed water for laboratory devices: Autoclaves, dishwashers etc.

### **Consistently High Water Quality**

As well as pre-treatment and purification via the reverse osmosis module, the device also performs softening and electrochemical deionization in the third purification stage. Thanks to this modern EDI technology, the arium<sup>®</sup> advance EDI guarantees the reliable and safe removal of all contamination contained in the feed water.

### iJust

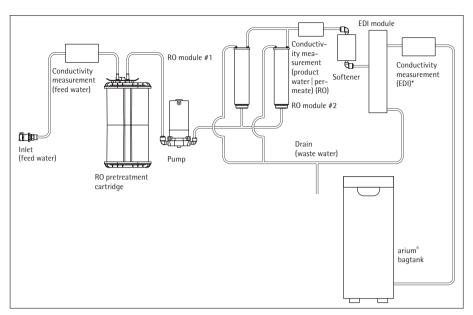
iJust conceals an innovative technology that optimizes water production. The intelligent arium<sup>®</sup> software controls a valve on the concentrate outlet corresponding to the data entered for CaCO<sub>3</sub> and CO<sub>2</sub>. iJust thereby optimizes product water quality and water consumption.

- Premium product water quality at all times
- Optimized, economic water consumption
- Guaranteed longer life of downstream ultrapure water systems

### **Display with Touch Function**

Simply navigate intuitively in the easy-to-use and clear menu by lightly touching the display – even with gloves.

- Consistently high quality Type 2 water thanks to stateof-the-art EDI technology
- Optimized water consumption –
- automatic with iJust
- Easy-to-use -
- unique glass display with touch function



Flow chart arium® advance EDI

### **Technical Specifications**

-	
Water purification method	Particle filtration, adsorption using spherical activated carbon, catalyst, reverse osmosis, softening, electrochemical deionization, optional final particle and sterile filtration
Dimensions: Width × Height × Depth	35.0 × 50.1 × 45.1 cm
Empty weight	19 kg
Operating weight	26 kg
Power supply	100–240 VAC (± 10%); 50–60 Hz, 130 VA (max.)
Operating temperature	2°C – 35°C at max. 80% relative humidity
Storage temperature	5°C–45°C at max. 80% relative humidity

### arium<sup>®</sup> advance EDI for Producing Type 2 **Pure Water**

Equipment supplied: 1 arium<sup>®</sup> advance EDI, 2 RO modules (reverse osmosis) and connection set

Order no.	Description
H2O-EDI-2-T	arium <sup>®</sup> advance EDI Bench- Top system in a compact design for every laboratory workstation
H2O-EDI-2-B	arium <sup>®</sup> advance EDI space- saving Wall-Mounted system

with integrated wall bracket

#### **Product Water Quality**

Troduce Water Quality	
Water type	Pure water Type 2
Output <sup>3</sup>	≤ 10 l/h
Water dispensing flow rate <sup>5</sup>	≤ 3 l/min
Typical conductivity <sup>1</sup>	0.2−0.07 µS/cm compensated to 25°C
Typical resistivity <sup>1</sup>	5−15 MΩ×cm compensated to 25°C
Typical TOC reduction <sup>₄</sup>	95%
Microorganism content <sup>2</sup>	< 1 CFU/1,000 ml
Particle content <sup>2</sup>	< 1/ml
Particle and microorganism retention	> 99%

### **Feed Water Quality**

Exclusively potable water according to the drinking water regulations of the USA, the European Union, or Japan.

1	
Input pressure	2.0 – 6.9 bar
Temperature	2-30°C
Specific conductivity	< 1,500 µS/cm compensated to 25°C
TOC content	< 1,000 ppb
Max. total hardness (max. CaCO <sub>3</sub> )	360 ppm
Free chlorine	4 ppm
Iron (total Fe content)	< 0.1 ppm
Manganese	< 0.05 ppm
Aluminum	< 0.05 ppm
CO <sub>2</sub> in solution	≤ 40 ppm
Fouling Index (SDI)	< 5
Turbidity	<1 NTU
pH value	4 - 10

 $^1$  Depending on the feed water (CO<sub>2</sub>  $\le$  40 ppm) and temperature  $^2$  When using an arium<sup>®</sup> sterile-grade filter (Sartopore<sup>®</sup> 2 150, 0.2  $\mu m$  pore size)

<sup>3</sup> Depending on the feed water pressure, temperature and condition of the RO modules

<sup>4</sup> Depending on the type of organic impurities in the feed water

<sup>5</sup> Depending on the arium<sup>®</sup> bagtank design, hydrostatic pressure, connected accessories and end filter

### arium<sup>®</sup> bagtanks The Most Innovative Tank System



- Integrated venting filter with check valve securely protects against CO<sub>2</sub> contamination
- Optional rollers provide highest flexibility
- Easy replacement of arium<sup>®</sup> bags, with no time-consuming sanitization
- High operation safety, no use of cleaning agents

### Description

The pure water is stored in the innovative, closed arium<sup>®</sup> bagtank system. Here, the prepared pure water is securely protected from secondary contamination. The Sartorius bagtank system enables consistent water quality over an extended period, thereby providing for long-term, reproducible results. In contrast to typical water tanks, the arium<sup>®</sup> bag provides a high degree of user safety and saves time by the elimination of complex sanitization processes with chemicals.

arium<sup>®</sup> bagtanks are housings that are equipped with arium<sup>®</sup> bags. The arium<sup>®</sup> bagtanks are available in 20 I, 50 I, and 100 I volumes. Their space-saving design is adaptable to any laboratory environment, and the optional rollers make the system extremely flexible.

Integrated distribution pumps are a standard component of the 50 l and 100 l bagtanks. An optional distribution pump is also available for the 20 l bagtank. Also available is a wall bracket for the space-saving and userfriendly installation of the arium<sup>®</sup> bagtank 20.

### Water Dispensing Flow Rate

with pump <sup>1</sup>	up to 3.0 l/min
with pump, dispense gun and sterile-grade filter <sup>1</sup>	up to 2.0 l/min
without pump <sup>2</sup>	up to 1.5 l/min

### Intended Use

System types:

arium<sup>®</sup> comfort I and comfort II, arium<sup>®</sup> advance RO and advance EDI

<sup>1</sup> arium<sup>®</sup> bagtank 20 is supplied without pump as standard; pumps are optionally available

- <sup>2</sup> Value only applies for arium<sup>®</sup> bagtank 20, the dispensing site at the same height or lower than the tank connection
- <sup>3</sup> Note: The arium<sup>®</sup> bag is not included in the equipment supplied with the arium<sup>®</sup> bagtank

### **Technical Specifications**

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Materials	
bagtank	Stainless steel   plastic
bag	S71 film
Tubing	PE   silicon
Dimensions, without brackets [H×W×D	
bagtank 20	80.8×16.6×43.7 cm
bagtank 50	85.2×25.4×58.7 cm
bagtank 100	85.2×51.4×58.7 cm
bag 20 l	86.5 × 43.0 cm
bag 50 l	90.0×58.1 cm
Empty weight with Operating weight	out arium <sup>®</sup> bag  with filled arium <sup>®</sup> bag
bagtank 20	19 kg   40 kg
bagtank 50	33 kg   84 kg
bagtank 100	47 kg   148 kg
Number of bags pe	er tank
bagtank 20	1 × 20 liters
bagtank 50	1 × 50 liters
bagtank 100	2×50 liters
Power supply <sup>1</sup>	240 VAC (± 10%), 50 Hz, 120 VA (max.)
Power supply, US versions <sup>1</sup>	115 VAC (± 10%), 60 Hz, 170 VA (max.)
Operating temperature	2°C–35°C at max. 80% relative humidity
Storage temperature	5°C–45°C at max. 80% relative humidity
Water connection input	1 × 3⁄8" PLC Quick Coupling
Water connection	output
bagtank 20	1 × 3/8" PLC Quick Coupling
bagtank 50, bagtank 100	2 × 3/8" PLC Quick Coupling

Order Number	Description
H2O-AOV-20 <sup>3</sup>	arium <sup>®</sup> bagtank 20 l, without pump, qty. 1 unit
H2O-AOV-50 <sup>3</sup>	arium $^\circ$ bagtank 50 l, with pump 240 VAC, 50 Hz, qty. 1 unit
H2O-AOV-50-US <sup>3</sup>	arium $^\circ$ bagtank 50 l, with pump 115 VAC, 60 Hz, qty. 1 unit
H2O-AOV-100 <sup>3</sup>	arium <sup>®</sup> bagtank 100 l, with pump 240 VAC, 50 Hz, qty. 1 unit
H2O-AOV-100-US	<sup>3</sup> arium <sup>®</sup> bagtank 100 l, with pump 115 VAC, 60 Hz, qty. 1 unit
H2O-ADP-20	arium $^\circ$ pump for arium $^\circ$ bagtank 20 l, 240 VAC, 50 Hz, qty. 1 unit
H2O-ADP-20-US	arium $^\circ$ pump for arium $^\circ$ bagtank 20 l, 115 VAC, 60 Hz, qty. 1 unit
H2O-ATR	arium® Rollers for arium® bagtank 50 & bagtank 100, incl. fittings, qty. 4 units
H2O-CBS-20	arium <sup>®</sup> 20 l bag for arium <sup>®</sup> 20 l bagtank, qty. 2 units
H2O-CBS-50	arium <sup>®</sup> 50 l bag for arium <sup>®</sup> 50 l and 100 l bagtank, qty. 2 units
H2O-ATB	arium <sup>®</sup> Wall bracket for arium <sup>®</sup> bagtank 20, qty. 1 unit

### arium<sup>®</sup> bagtank Dispense Gun

Ergonomic Water Dispensing from the arium® bagtank with a Working Radius of up to 3.7 m



- Extended working area of 3.7 m
- Available with a height-adjustable stand or wall mounting bracket
- Ergonomic design
- Easy-to-use
- Sterile-grade filter can be connected

### Description

The arium<sup>®</sup> dispense gun is an ergonomically designed, easy-to-use dispensing unit and is perfectly suited for dispensing pure water.

Depending on the work environment, either position the dispense gun on the wall to save space or on the 70 cm height-adjustable stand. Moreover, the stand lets you work in a relaxed position and allows optimal adjustment to different sized sampling vessels. The extended tube guide ensures a work area 2.5 m away from the arium<sup>®</sup> bagtank or pressure tank and a further 1.2 m from the stand.

A sterile-grade arium<sup> $\circ$ </sup> filter (Sartopore<sup> $\circ$ </sup> 2 150 capsule) with 0.2 µm pore size can be easily connected for guaranteed sterile and particle-free water dispensing.

Order number	Description
613-AMDG1	arium <sup>®</sup> Dispense Gun inclusive height-adjustable stand for connection to arium <sup>®</sup> bagtanks, qty. 1 unit
613-AMDG2	arium <sup>®</sup> Dispense Gun inclusive wall mounting kit for connection to arium <sup>®</sup> bagtanks, qty. 1 unit

### **Technical Specifications**

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Materials	
Stand	Aluminum (gray anodized)
Dispense gun	Plastic, white finish
Tubing	PE
Dimensions withou	ut tubing $[W \times H \times D]$
Dispense gun with stand	18.5×59.5×51.0 cm
Dispense gun with wall mounting bracket	9.0×10.0×28.5 cm
Weight without tu	ıbing
Dispense gun with stand	5.60 kg
Dispense gun with wall mounting bracket	0.46 kg
Intended Use for a arium <sup>®</sup> bagtank 20 arium <sup>®</sup> bagtank 50 arium <sup>®</sup> bagtank 100	* 5
arium <sup>®</sup> pressure tan arium <sup>®</sup> pressure tan arium <sup>®</sup> pressure tan arium <sup>®</sup> pressure tan	k 30 k 50 k 70 k 100
* Only in conjunction w pump	vith an optional distributior

### arium<sup>®</sup> Water Guard Early Detection of Leakages Protects the Laboratory



- Highly sensitive optical sensor
- Audiovisual alarm signals
- Automatic water-stop in case of leakage
- High-grade material, non-corrosive
- Easy to install
- Integrated wall mounting bracket for magnetic valve

### Description

Only the early detection of water leakages provides optimal protection against water damage in the laboratory. Leaks are registered by the highly sensitive optical sensor.

In contrast to conventional sensors, this sensor functions independently of conductivity measurement values as these are so low in the ultrapure water area that the activation of the guard is not guaranteed. Once a leakage is detected the water guard automatically locks the feed water inlet line. An acoustic warning is triggered immediately and the system status can be constantly controlled using the integrated LED display. The sensitive sensors and high-grade materials mean that the arium<sup>®</sup> water guard is perfect for all ultrapure and pure water systems.

### **Technical Specifications**

ns
5 cm
2.5 cm
2 m

ruonig connections	
Inlet	3/8" plug connection
Outlet	3/8" plug connection
Power supply	100 – 240 VAC 50 – 60 Hz

### Intended Use

System Types: arium<sup>®</sup> comfort I and comfort II arium<sup>®</sup> pro, pro DI, pro UF, pro UV and pro VF arium<sup>®</sup> advance RO and EDI arium<sup>®</sup> 611, 612 and 613

Order number	Description
610AWG1	arium <sup>®</sup> water guard, qty. 1 unit

### arium<sup>®</sup> Sterile-grade Filter Sterile and Particle-free Water Dispensing



- Excellent service life and flow rate
- Integrity tested
- Validated acc. to HIMA and ASTM F-838-05
- Meets WFI quality standards acc. to USP incl. USP plastic class VI test
- Manufactured acc. to DIN ISO 9001
- Easy to install
- Automatic venting
- Certified quality

### Description

The arium<sup>®</sup> sterile-grade filter (Sartopore<sup>®</sup> 2 150) is a sterile, ready-to-use membrane filter capsule for the most stringent requirements. Sartopore<sup>®</sup> 2 150 membrane filter capsules contain a hydrophilic, heterogeneous polyethersulfone double membrane. It enables an excellent service life and output. The capsule is attached, by a quick connector at the final position and reliably removes all particles and microorganisms in the last water purification step. A hydrophobic PTFE membrane at the farthest point "upstream" allows for easy and clean ventilation of the capsule.

All pleated Sartopore<sup>®</sup> 2 membrane filter units are validated as sterile filters for biopharmaceutical applications according to the HIMA and ASTM F-838-05 guidelines (documentation available). During the manufacturing process, every capsule is integrity tested to meet the highest quality standards and safety regulations.

### **Technical Specifications**

Materials		
Membranes	Asymmetrical polyethersulfone	
Filling bell	Polycarbonate	
Other plastics	Polypropylene	
Pore size	0.45 μm + 0.2 μm	
Filtration area	0.015 m <sup>2</sup>	
Inlet and outlet	<sup>1</sup> /4" plug connection	
Sterilization (max. 3 cycles)	Autoclaving at 134°C, 1 bar, 30 min	
Max. diffusion	1 ml/min at 2.5 bar	
Min. bubble point	3.2 bar	

### **Intended Use**

On Dispense Guns and Display-Dispense Units for system type: arium<sup>®</sup> comfort I and comfort II arium<sup>®</sup> pro, pro DI, pro UF, pro UV and pro VF arium<sup>®</sup> 611 arium<sup>®</sup> bagtank Dispense Gun arium<sup>®</sup> Dispense Gun

### Order number Description

5441307H4--CE--B

--CE--B arium<sup>®</sup> sterile-grade filter (Sartopore<sup>®</sup> 2 150 capsule), 0.2 μm pore size, qty. 5 units

### arium<sup>®</sup> RO Pretreatment Cartridge Safe Protection of the RO Module



- Quick and effective adsorption of impurities by high-grade activated carbon
- 5 µm depth filter for the retention of particles
- Highly efficient catalyst for removing free chlorine
- Easy to install by patented cartridge design

### Description

The best protection for a downstream reverse osmosis (RO) membrane is the combination of spherical, catalytic effective activated carbon, a catalyst and a depth filter. It reliably removes oxidizing agents, such as free chlorine, heavy metal ions and particle impurities, from the system's feed water.

A special catalyst is an integral part of pretreatment. It is particularly efficient at removing free chlorine and at a lower temperature and | or higher pH value compared to activated carbon alone.

Apart from preventing deposits, the catalyst reduces fouling processes and inhibits microbiological growth. The patented cartridge design saves time with its easy installation and replacement.

### **Technical Specifications**

Materials		
Housing	High-quality polypropylene	
Cleaning media	Spherical catalytic effec- tive activated carbon plus polypropylene filter cartridge with nom. 5 µm retention rate	
Dimensions $(W \times H \times D)$	18×26×11 cm	
Operating weight	3.5 kg	
Feed water requirements	See "Technical Specifications" page 2	

### **Intended Use**

System Type: arium<sup>®</sup> advance RO and advance EDI 61316, 61215

Order Number	Description
613CPF05V	arium $^{\circ}$ RO pretreatment cartridge set, qty. 2 units

### arium® RO Modules

### Reverse Osmosis Modules with Low-energy Membranes



- Highly efficient reverse osmosis membranes, optimized water consumption
- Low-energy membranes for ecological and economical operation
- Backflush with product water increases the service life
- Easy replacement
- Constant flow
- Consistently high water quality

### Description

The arium® RO modules consist of two independent membrane housings whose design guarantees easy installation and reliable operation. Each of the two modules contains a low-energy reverse osmosis membrane in a polypropylene housing. The housing has connections for feed water, permeate (product water) and concentrate (waste water). The RO Modules typically enable high recovery rates. This optimize the water consumption while still retaining at least up to 98% of the ions. Thanks to the backflush with permeate, particles and salts are removed from the surface of the membrane. This results in a longer service life and lower system maintenance costs. In addition, this backflush function on restarting the system allows for the immediate dispensing of high quality water.

### **Technical Specifications**

Materials		
RO membranes	Low-energy membrane made of polyamide	
Housing	Polypropylene	
Dimension of eac	h module	
Height	30.8 cm	
Diameter	7.8 cm	
Weight	0.468 kg	
Product Water Quality	See "Technical Specifications" page 2	

### Intended Use

For arium<sup>®</sup> advance EDI and arium<sup>®</sup> comfort II

Order Number	Description
H2O-CRO-H-2	arium <sup>®</sup> RO modules, qty. 2 units

### arium<sup>®</sup> Softener Cartridges Maximum Service Life of the EDI Module



improve protection of the EDI module.

Description

The cartridge reliably removes traces of alkaline earth ions from the water, thereby guaranteeing consistently high water quality and a long service life of the EDI module.

It is sensible to soften the feed water to

### **Technical Specifications**

Materials	
Housing	High-grade polypropylene
Filling material	Ultrapure ion exchange resin

### Intended Use

System Types: arium<sup>®</sup> comfort II arium<sup>®</sup> advance EDI

### - Consistently high water quality

- Long service lives
- Effective CaCO<sub>3</sub> elimination

### Order Number

H20-CS0

## Description

arium® softener cartridges, qty. 2 units

### arium<sup>®</sup> RO Module Cleaning Set

Maximum Service Life of the RO Module



- Effective removal of scaling and metal fouling
- Elimination of organic compounds
- Dispersion of colloids
- Stable pH values
- Gentle on materials

### Description

Two-stage cleaning set for removing scaling and organic contaminants.

The alkaline substance contains non-foaming tensides that dissolve organic compounds and disperse colloids. The tensides do not remain on the membrane surface and can be quickly removed from the membrane surface. Cleaning efficiency depends on the pH value that can be safely maintained over a wide temperature range by the contained buffer substances.

The acidic cleaning agent to remove scaling contains chelate and reducing agents in order to dissolve metallic fouling. Even during cleaning, buffers keep the ideal pH consistently low over a wide range.

### **Technical Specifications**

Ingredients		
Alkaline cleaner	HEDTA, ethanolamine, triethanolamine	
Acidic cleaner	HEDTA, phosphoric acid, citric acid	

### Intended Use

System Types: arium<sup>®</sup> comfort I and comfort II arium<sup>®</sup> advance RO and advance EDI arium<sup>®</sup> 612 and 613

Order Number	Description
H2O-CCS	arium $^{\circ}$ RO module cleaning set, qty. 1 unit

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