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## Product Datasheet

# Arium<sup>®</sup> Advance EDI

Ultimate Reliable Electrodeionisation

## Advantages

- Reliable Consistently high Type 2 water quality thanks to the latest EDI technology
- Time-saving Use of innovative Bag technology, eliminates costly tank cleaning
- Optimized water consumption Automatic with iJust
- Easy to use Display with touch function and intuitive menu

## Product Description

The Arium<sup>®</sup> Advance EDI provides Type 2 water in consistently high quality. The innovative iJust automatically optimizes water consumption and ensures the conscientious use of our environmental resources. In contrast to conventional water purification systems, the unique touch display with intuitive menu navigation makes it extremely easy to use.

With a flow rate of 5 or 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 ideal choice for general and demanding laboratory applications.

## Consistently High Type 2 Water Quality

In addition to pretreatment and purification by reverse osmosis modules, softening and electrochemical deionization is also carried out in the third purification step. By means of this modern EDI technology, the Arium<sup>®</sup> Advance EDI reliably guarantees the removal of all impurities contained in the feed water.

## Innovative Bag Technology

The pure water is stored in the enclosed Arium<sup>®</sup> Bagtank system. This guarantees optimal storage of the pure water and protects against secondary contamination. Timeconsuming tank cleaning intervals are eliminated thanks to the interchangeable bag.

### iJust

iJust stands for innovative technology that optimizes water production. Amongst other things, the intelligent Arium® software controls a valve on the concentrate outlet in accordance with the data that have been entered for CaCO₃ and CO₂. iJust therefore optimizes the product water quality and water consumption.

- High product water quality at all times
- Optimized, economical water consumption
- Guarantees a longer life of the 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.

## Technical Specifications

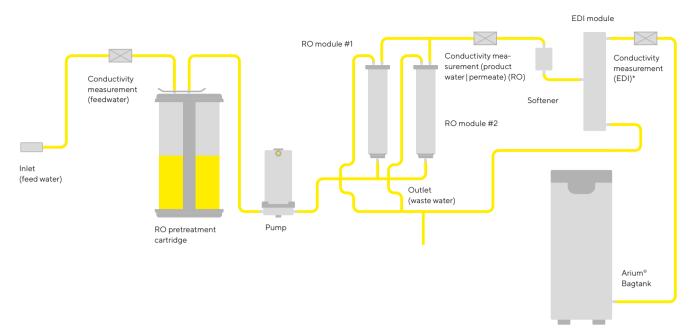
Dimensions: width × height × depth	35.0×50.1×45.1cm
Empty weight	19 kg
Operating weight	26 kg
Power supply	100 – 240 VAC (±10%); 50 – 60 Hz, 130 VA (max.)
Operating temperature	2°C-35°C at max. 80% relative humidity
Storage temperature	5°C-45°C at max. 80% relative humidity

#### Feed Water Quality

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

Input pressure <sup>1</sup>	2.0-6.9 bar
Temperature	2-30°C
Specific conductivity	<1,500 µS/cm compensated to 25 °C
ТОС	<2,000 ppb
Max. total hardness (max. CaCO3)	360 ppm
Free chlorine	4 ppm
Iron (total Fe content)	<0.1ppm
Manganese	< 0.05 ppm
Aluminum	< 0.05 ppm
CO2 in solution	≤ 40 ppm
Fouling Index (SDI)	<5
Turbidity	<1NTU
pH value	4-10

<sup>1</sup> Dynamic pressure/flow pressure 100 L/h



Flowchart Arium® Advance EDI (H2O-EDI-2-T)

## Water Applications

#### Lab Water System Quality

	Advance EDI
Water Quality	
Type 2 Pure Water	
Lab Water System by Daily Water Consumption	
Type 2 pure water < 120 Liter/day (5 L/h)	
Type 2 pure water <150 Liter/day (10 L/h)	
Feed Application	
Feed ultrapure water systems	•
Feed distilled systems	•
Water for Laboratory devices (Autoclaves   Washing Machine etc.)	
General Laboratory Application	
Buffer, media and pH solutions	
Histology	
ELISA (Enzyme-Linked Immunosorbent Assay)	
AAS (Atomic Absorption Spectroscopy)	
Solutions for chemical analysis and synthesis	

#### **Product Water Quality**

Water purification method	Particle filtration, adsorption using spherical activated carbon, catalyst, reverse osmosis, softening electrochemical deionization
Water type	Type 2 pure water
Production output <sup>2</sup>	5 L/h or 10 L/h
Water dispensing flow rate <sup>4</sup>	Up to 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 M $\Omega$ × cm compensated to 25 °C
Typical TOC reduction <sup>3</sup>	95%
Particle and microorganism retention	>99%

<sup>1</sup> Depending on the feed water quality (CO₂ ≤40 ppm) and temperature <sup>2</sup> Depending on the feed water pressure, temperature, and condition of the RO module(s)

<sup>3</sup> Depends on the type of organic contamination in the feed water

<sup>4</sup>When using an Arium® Bagtank design with pump, depending on hydrostatic pressure, connected accessories or end filter

#### Product Water Quality from Arium® Smart Station<sup>1</sup> with connected final filter

No particles > 0.22 µm
< 0.001 CFU/mL
< 0.001 EU/mL
<1pg/mL
< 5 pg/mL
Up to 2 L/mL

<sup>1</sup> Connected to an Arium<sup>®</sup> Bagtank

<sup>2</sup> When using an Arium<sup>®</sup> Sterile Plus (Sartopore<sup>®</sup> 2 150 final filter)

<sup>3</sup>When using an Arium<sup>®</sup> Cell Plus final filter

<sup>4</sup> When using an Arium<sup>®</sup> Bagtank with pump, depending on hydrostatic pressure, connected accessories or end filter

## Ordering Information

#### Arium® Advance EDI for the production of Type 2 pure water

Scope of supply: 1 Arium® Advance EDI, water guard, RO (reverse osmosis) module(s) and connection kit

Order number	Description
H2O-EDI-1-T	Arium® Advance EDI benchtop device, flow capacity 5 L/h
H2O-EDI-1-B	Arium® Advance EDI wall-mounted device, flow capacity 5 L/h
H2O-EDI-2-T	Arium® Advance EDI benchtop device, flow capacity 10 L/h
H2O-EDI-2-B	Arium® Advance EDI wall-mounted device, flow capacity 10 L/h

## Accessories

## Arium<sup>®</sup> Bagtanks

#### Innovative tank system

- Integrated ventilation filter with non-return valve provides reliable protection against CO<sub>2</sub> pollution
- High flexibility through the 4 rollers available as an option
- Easy and fast exchange of the Arium<sup>®</sup> Bags
- No chemical cleaning required

### Description

The pure water is stored in the innovative enclosed Arium® Bagtank system. This system protects the prepared pure water against secondary contamination. The Sartorius Bagtank system enables consistent water quality over a prolonged period, thereby ensuring permanent, reproducible results. Unlike conventional water reservoirs, the Arium® Bag eliminates time consuming tank cleaning intervals thanks to the interchangeable technology.

Arium<sup>®</sup> Bagtanks are housings which are equipped with Arium<sup>®</sup> Bags. The Arium<sup>®</sup> Bagtanks are available in 20 L, 50 L, and 100 L volumes. Their design is adaptable and saves space in any laboratory environment, and the optional rollers make this an extremely flexible system.

Integrated distributor pumps are a standard component of the 50 L and 100 L Bagtanks. A distributor pump is also available as an option for the 20 L Bagtank. In addition, a wall holder for the space-saving and user-friendly installation of this tank is also available.



#### Water dispensing flow rate

With pump <sup>1</sup>	up to 3.0 L/min
With pump, remote dispenser and Sterile Plus filter <sup>1</sup>	up to 2.0 L/min
Without pump <sup>2</sup>	up to 1.5 L/min
Pump pressure	3 bar

#### Intended Use

Device type:

Arium<sup>®</sup> Advance EDI

## Technical Specifications | Ordering Information

Materials		Order number	Description
Bagtank	Stainless steel   plastic	H2O-AOV-20 <sup>3</sup>	Arium <sup>®</sup> Bagtank 20 L, without pump,
Bag	S71 film		1pc
Tubing	PE silicone	H2O-AOV-50 <sup>3</sup>	Arium® Bagtank 50 L, with pump 240 VAC, 50 Hz, 1pc
		H2O-AOV-50-US <sup>3</sup>	Arium® Bagtank 50 L, with pump 115 VAC, 60 Hz, 1pc
Dimensions, excluding rolle	rs and wall bracket [H × W × D]	H2O-AOV-50-W <sup>3</sup>	Arium <sup>®</sup> Bagtank 50 L, without pump,
Bagtank 20	80.8×16.6×43.7 cm		1pc
Bagtank 50	85.2×25.4×58.7 cm	H2O-AOV-100 <sup>3</sup>	Arium® Bagtank 100 L, with pump
Bagtank 100	85.2×51.4×58.7 cm		240 VAC, 50 Hz, 1pc
Bag 20 L	86.5×43.0 cm	H2O-AOV-100-US <sup>3</sup>	Arium <sup>®</sup> Bagtank 100 L, with pump 115 VAC, 60 Hz, 1pc
Bag 50 L	90.0×58.1cm	H2O-AOV-100-W <sup>3</sup>	Arium® Bagtank 100 L, without pump, 1 pc
Empty weight without Ariu Operating weight with filled		H2O-ADP-20	Pump Arium® Bagtank 20 L, 240 VAC, 50 Hz, 1pc
Bagtank 20	19 kg   40 kg	H2O-ADP-20-US	Pump Arium® Bagtank 20 L, 115 VAC, 60 Hz, 1pc
Bagtank 50	33 kg   84 kg	H2O-ATR	Rollers for Arium <sup>®</sup> Bagtank 50 & bag-
Bagtank 100	47 kg   148 kg		tank 100, including fastening material, 4 pcs
Number of bags per tank		H2O-CBS-20	Arium <sup>®</sup> 20 L Bag for Arium <sup>®</sup> 20 L Bagtank, 2 pcs
Bagtank 20	1×20L	H2O-CBS-50	Arium $^{\circ}$ 50 L Bag for Arium $^{\circ}$ 50 L and
Bagtank 50	1×50L		100 L Bagtank, 2 pcs
Bagtank 100	2×50L	H2O-ATB	Wall mount for Arium <sup>®</sup> Bagtank 20, 1pc
Power supply <sup>1</sup>	240 VAC (± 10 %), 50 Hz, 120 VA (max.)		190
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			

1×¾" PLC quick-connect coupling

Water connection output Bagtank 20 1×¾" PLC quick-connect coupling Bagtank 50, Bagtank 100 2×%" PLC quick-connect coupling

' Bagtank 20 is supplied without a pump as standard, pump optionally

<sup>2</sup> Value only applies to Bagtank 20, dispensing site at the same height or lower than the tank outlet
<sup>3</sup> Note: The Arium<sup>®</sup> Bag is not included in the scope of delivery of the

Arium® Bagtank

## Arium<sup>®</sup> Smart Station

### Remote dispensing at high flexibility

- Compact: Save space integrating in your lab
- Intuitive: Touch-activated color display with direct access to all important functions
- Flexible: Stepless height adjustment to fill different size containers
- Accurate: Precise volume dispense for reliable buffer and sample preparation

## Description

The Arium<sup>®</sup> Smart Station is designed for flexible remote dispensing of pure water directly at the point of use. While dispensing water into a broad range of different sized containers, the Smart Station offers constant control of every important quality parameters, at all times. The ergonomic design supports left-and right-hand operation and can be easily adjusted to your need.

Using the extended connection set, the distance between the Smart Station and the Arium® Bagtank can be set up to 4 meters. Based on your needs different point of use filters can be added.

### Arium<sup>®</sup> Smart Station Pure:

Supply pure water from Arium® Bagtank





## Technical Specifications | Ordering Information

#### Dimensions Smart Station Bench-Top

Control box with stand (w × d × h)	213 × 213 × 598 mm (8.4 × 8.4 × 8.2″)
Operating range fixed dispense arm (d × w × h)	428 × 476 × 835 mm (16.9 × 18.7 × 32.9″)
Tubing Length: Distance to water system   bagtank	2 Meter
Operating range flexible hand held	0.7 Meter
Weight	Approx. 4.9 kg (10.8 lbs)

Order number	Description
H2O-ARST-P-T	Arium <sup>®</sup> Smart Station Pure for benchtop instatllation
H2O-ARST-P-B	Arium <sup>®</sup> Smart Station Pure for wall-mounted instatllation

Benchtop and wall-mounted edition can be assembleed for left or right hand side, without additional equipment required.

#### Intended Use

Device type:

Arium<sup>®</sup> Bagtank

Dimensions Smart Station Wall-Mounted		
Control box (w × d × h)	172 × 157 × 343 mm (6.8 × 6.2 × 13.5″)	
Operating range dispense arm (d × w × h)	242 × 90 × 300 mm (9.5 × 3.5 × 11.8")	
Tubing Length: Distance to water system   bagtank	2 Meter	
Operating range flexible hand held	0.7 Meter	
Weight	Approx. 2.4 kg (5.3 lbs)	
General Specifications		
Volume-controlled dispensing	50 mL – 50 Liter	
Volume accuracy	±5% between	
Power supply	100 - 240 VAC; 50 and 60 Hz, 2.5 A (max.) 2 °C - 40 °C	

Power cord (IEC 60320-1 / C14) Country specific

## Arium<sup>®</sup> Extended Connection Set

#### Flexible enhance your working space

- Extend the operating range up to 4 meter
- Fast and reliable connection

## Description

The extended tubing set is used for the Arium<sup>®</sup> Smart Station Pure for uncomplicated extension of the standard supplied tubing set.

With the extension set the operating range can be easily increased from 2 up to 4 meter.

### Technical Specifications | Ordering Information

Ethernet CAT6A	
<i>V</i> 4"	
4 meter	
-	1⁄4"

Order number	Description
H2O-ATES-P	Arium® Tubing Extension Set Pure

Benchtop and wall-mounted edition can be assembleed for left or right hand side, without additional equipment required.

#### Intended Use

Device type: • Arium<sup>®</sup> Smart Station Pure

## Arium<sup>®</sup> Water Guard

#### Early detection of leakages protects the laboratory

- Highly sensitive optical sensor
- Audiovisual alarm signals
- Automatic water stop in the case of leakage
- High-quality material, no corrosion
- Easy to install
- Integrated wall mounting bracket for solenoid valve

### Description

Only the early detection of water leakages provides optimal protection against water damage in the laboratory. Leakages 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 leak 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. With its sensitive optical sensors and high-quality materials, the Arium® Water Guard is perfect for all ultrapure and pure water systems.



### Technical Specifications | Ordering Information

Sensor dimensions		
Diameter	5cm	
Height	2.5 cm	
Cable length	2 m	

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Input	⅔" Plug-in connector
Output	⅔" Plug-in connector
Power supply	100–240 VAC 50–60 Hz

Description
Arium® Water Guard, 1pc

#### Intended Use

Device type: • Arium<sup>®</sup> Advance EDI

## Consumables

## Arium<sup>®</sup> Sterile Plus

#### Sterile and particle-free water dispensing

- Excellent service life and flow rates
- Integrity tested
- Validated according to HIMA and ASTM F-838-05
- Meets WFI quality standards pursuant to USP incl. USP plastic class VI test
- Production in accordance with DIN ISO 9001
- Easy to install
- Automatic venting
- Certified quality

## Description

The Arium<sup>®</sup> Sterile Plus (Sartopore<sup>®</sup> 2 150) is a sterile, ready-to-use membrane filter capsule suitable for the most stringent requirements. Arium<sup>®</sup> Sterile Plus membrane filter capsules contain a hydrophilic, heterogeneous polyethersulfone double membrane. These provide an excellent service life and flow rates. The capsule can be attached to an Arium<sup>®</sup> Smart Station and reliably removes all particles and microorganisms. A hydrophobic PTFE membrane at



the farthest point "upstream" allows for easy and clean ventilation of the capsule.

All pleated Arium<sup>®</sup> Sterile Plus membrane filter units are validated as sterile filters for biopharmaceutical application 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.

### Technical Specifications | Ordering Information

Materials	
Membranes	Asym. Polyethersulfone
Bell assembly	Polycarbonate
Other plastics	Polypropylene
General Specifications	
Pore size	0.45 µm × 0.22 µm
Filtration area	0.015 m²
Input and Output	¼" Plug-in connector
Sterilization (max. 3 cycles)	Autoclaving at 134°C, 1 bar, 30 min.
Max. diffusion	1mL/min @ 2.5 bar
Min. bubble point	3.2 bar

Typical Specifications	
Bacteria	< 0.001 CFU/mL
Particle content	No particles > 0.22 µm
Order number	Description
5441307H4CE	Arium <sup>®</sup> Sterile Plus (Sartopore <sup>®</sup> 2 150
	Capsule), 0.22 µm pore size, 1 pc

#### Intended Use

Device type:

Arium<sup>®</sup> Smart Station Pure

## Arium<sup>®</sup> Cell Plus 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<sup>®</sup> Cell Plus is a point-of-use ultrafilter for efficient removal of endotoxins, RNase, DNase, microorganisms and particles.

Connected to an Arium<sup>®</sup> Smart Station, this sterilepackaged ultrafilter provides high protection for your critical cell culture applications. A protective bell supplied with the ultrafilter additionally prevents retrograde contamination.

Moreover, the high-grade material selected for Arium<sup>®</sup> Cell Plus 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**

Flow rate (depends on the inlet pressure and type of system)	Up to 2.0 L/min
Endotoxins	<0.001 EU/mL
Bacteria	<1 cfu/100 mL
RNase concentration	<1pg/mL
DNase concentration	<5 pg/mL

General Specifications	
Cut-off	15,000 Daltons   0.005 µm
Inlet and Outlet	¼″ Plug-in connector
Dimensions (height×diameter)	169×50mm
Max. operating pressure	6 bar (87 psi)
Max. inlet temperature	50°C
Effective membrane area	0.5 m²

Order number	Description
H2O-CUF	Arium® Cell Plus Ultrafilter, 1pc

#### Intended Use

Device type: • Arium<sup>®</sup> Smart Station Pure

## Arium<sup>®</sup> RO Pretreatment Cartridge

#### Safe protection of the RO module

- Fast and effective adsorption of impurities through high-grade activated carbon
- 5 µm depth filter for the retention of particles
- Highly efficient catalyst for removing free chlorine
- Patented cartridge design for easy installation

## Description

An efficient 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 oxidation agents, such as free chlorine, heavy-metal ions and particulate contaminants from the feed water of the system.

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

The patented cartridge design ensures minimal time expenditure with ultra-easy installation and exchange.

### Technical Specifications | Ordering Information

Materials	
Housing	High-quality polypropylene
Cleaning media	Spherical catalytic effective activated carbon plus polypropylene filter car- tridge with nom. 5 µm separation rate
Dimensions $[W \times H \times D]$	18×26×11 cm
Operating weight	3.5 kg
Feed water requirements	See "Technical Specifications" page 2

Order number	Description
H2O-CPFAD-1	Arium® RO Pretreatment Cartridge, 1pc

#### Intended Use

Device type:

Arium<sup>®</sup> Advance EDI



## Arium<sup>®</sup> 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<sup>®</sup> RO modules consist of two independent membranes 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 (discarded water). The RO modules enable an ideal water yield, thereby optimizing the water consumption. At the same time, up to 98% of the salts are typically retained. 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 after a standstill allows for the immediate dispensing of high quality water.

## Technical Specifications | Ordering Information

Materials	
RO membranes	Low-energy membrane made of polyamide
Housing	Polypropylene
Dimensions for each module	
Height	30.8 cm
Diameter	7.8 cm
Weight	0.468 kg

See "Technical Specifications" page 2

Order number	Description
H2O-CRO-H-1	Arium® RO Module, 1pc
H2O-CRO-H- 2	Arium <sup>®</sup> RO Module, 2 pcs

#### Intended Use

Device type:

Arium<sup>®</sup> Advance EDI

Product Water Quality

## Arium<sup>®</sup> Softener Cartridge

#### For maximum service life of the EDI module

- Consistently high water quality
- Long service life
- Effective CaCO<sub>3</sub> elimination

### Description

It is sensible to soften the feed water to improve protection of the EDI module.

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.



## Technical Specifications | Ordering Information

Ma	teri	als

Housing High-purity polypropylene Filling material Ultrapure ion exchange resin

Order number	Description
H2O-CSO-1	Arium® Softener Cartridge, 1pc

#### Intended Use

Device type:

Arium<sup>®</sup> Advance EDI

## Arium<sup>®</sup> RO Cleaning Set

#### Maximum service life of the RO module

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

## Description

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

The alkaline substance contains non-foaming surfactants that dissolve organic compounds, disperse colloids and can be quickly removed again from the membrane surface. Cleaning efficiency depends on the pH value that is steadily maintained by buffer substances through a large temperature range.

The acidic cleaning agent to remove scaling contains chelate and reducing agents in order to dissolve metallic deposits. The ideal pH value also remains consistently low over a wide range during cleaning in this case thanks to the buffers.



## Technical Specifications | Ordering Information

-	
Alkaline cleaner	HEDTA, ethanolamine, triethanol- amine
Acidic cleaner	HEDTA, phosphoric acid, citric acid

Order number	Description
H2O-CCS	Arium <sup>®</sup> RO Cleaning Set, 1pc

#### Intended Use

Device type: • Arium<sup>®</sup> Advance EDI

## 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 reliable and optimal operation of your Arium<sup>®</sup> systems. 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/en/services



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