

SARTORIUS

Technical Product characteristics

Arium® Advance L System reverse osmosis

Compact solution for large volumes

Advantages

- Reliability: continuous reduction of salts, ions, bacteria and organic compounds from source water;
- Efficiency: capacity up to 200 liters per hour;
- Intuitive control: has a convenient menu with simple navigation;
- Modularity: you can choose the tank and flow rate that suits you.



Product information

Arium Laboratory Water Treatment Systems® Advance L is designed for partial desalination of water using reverse osmosis in volumes up to 200 l/h.

In combination with the integrated 100 or 200 litre storage tank, the system provides the ideal volume of pre-treated feed water for the laboratory. The system is capable of simultaneously supplying water to several laboratory instruments thanks to its powerful distribution pump. Its compact, square shape saves maximum space.

Reliability

Arium System [®]Advance L provides supply high-quality clean water. The highly efficient reverse osmosis module removes up to 98% of salts and organic molecules and more than 99% of bacteria from the source water.

Intuitiveness

Thanks to the clear interface of the monitor and the well-thought-out menu, you will always have direct access to all important information. The convenient keyboard allows you to easily control all functions intuitively.

Efficiency

With a flow rate of 100 or 200 l/h, the Arium system [®]Advance L provides the ideal volume of pre-treated water for your daily needs.

Modularity

Arium system [®]Advance L can be installed in virtually any laboratory or room, thanks to its compact design.

Technical specifications

Water purification method	Particle filtration, adsorption with activated carbon and reverse osmosis
Dimensions ² : width x depth x height	58 x 62.5 x 79.6 cm or 60 x 62.5 x 134.0 cm
Weight ²	66 or 70 kg
Working weight ²	166 or 270 kg
Power supply	230 V AC (± 10%); 50 Hz
Operating temperature at relative humidity not more than 80%	from 5 to 35 °C

Quality of the resulting water

Water type	Reverse osmosis water
Min. output ¹ ₁ ²	100 or 200 l/h
Distribution pump flow rate at 4 bar pressure (clean water)	1 m ³ /h
Standard conductivity ¹	less than 20 µS/cm
Standard ion retention	up to 98%
Retention of dissolved organic matter (mol. mass more than 300 daltons)	more than 99%
Retention of particles and microorganisms	more than 99%

Quality of source water

Exclusively tap drinking water in accordance with the drinking water regulations of the United States, the European Union or Japan.

Input pressure	3 – 6 bar
Temperature	from 5 to 25 °C
Conductivity	less than 1500 µS/cm adjusted to 25 °C
Total organic carbon	less than 2000 mcg/l
Max. permanent hardness (max. CaCO content ³)	less than 0.1 mg/l
Free chlorine	more than 99%
Iron (total Fe)	less than 0.05 µg/l
Pollution factor	less than 3%/min
Turbidity	less than 1 NTU (nephelometric turbidity unit)
pH level	4 – 10

¹According to the data, obtained for the initial drinking water quality: 10 | 15 °C, 3 bar, total mineralization ≤ 500 mg/l ± 15%, coefficient pollution ≤ 3.0, oxidizers (Fe and Mn) ≤ 0.05 mg/l.

²Depending on the type systems. The first value is specified for the system with a 100 liter tank, the second value is for a system with a 200 liter tank.

Ordering information

Arium Reverse Osmosis System® Advance L for clean water preparation

Scope of delivery: Arium Advance L reverse osmosis system®, reverse osmosis module (RO), set of connections for the system and pre-filter housing, pre-filter with filtration fineness of 5 microns, filter element with activated carbon and double housing for cartridge filters.

Article	Size
H2O-RO-L-100	Arium System® Advance L, flow rate 100 l/h, with a built-in 100 l tank
H2O-RO-H-100	Arium System® Advance L, flow rate 200 l/h, with built-in 100 l tank
H2O-RO-L-200	Arium System® Advance L, flow rate 100 l/h, with built-in 200 l tank
H2O-RO-H-200	Arium System® Advance L, flow rate 200 l/h, with built-in 200 l tank

Accessories

Pre-filter for Arium® Advance L

Reliable protection of the reverse osmosis module



5 micron pore size filter for particle retention

Description

Arium Pre-filter® Advance L 5 microns protects and extends the service life of the reverse osmosis module connected after it. The filter reliably removes suspended particles and solid impurities from the source water.

Used in conjunction with:

Device type: Arium filter housing® Advance L

Technical specifications

Material

Cleaning material The filter is made of polypropylene with a collection capacity of 5 microns.

Dimensions [W x H x D] 18 x 26 x 11 cm

Requirements for source water See "Technical Specifications" on page 2

Ordering information

Article	Description
H2O-CPFL-1	Arium Pre-filter® Advance L (1 pc.)

Activated carbon filter element for Arium® Advance L

Effective removal of organic impurities



■ Fast and efficient adsorption of pollutants by high-quality activated carbon.

Description

The activated carbon filter element effectively removes free active chlorine and organic contaminants.

Technical specifications

Material

Cleaning material	Activated carbon
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Dimensions [W x H x D]	18 x 26 x 11 cm
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Requirements	See "Technical Specifications" on page 2 to the source water
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Ordering information

Article	Description
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H2O-CACL-1	Arium activated carbon filter element® Advance L (1 pc.)
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Used in conjunction with:
Device type: Arium filter housing

®Advance L

Filter housing for Arium® Advance L

Effective preparation



-Simple and quick installation of the filter housing and cartridge

Built-in wall mounting bracket

Description

Arium filter housing® Advance L can be single-stage or two-stage, which allows you to configure a set of filters for water treatment depending on the system requirements.

Technical specifications

Material	
Frame	Polypropylene
Dimensions [W x H]	14.5 (single) / 26.0 (double) x 24.5 cm
The quality of the received water	See "Technical Specifications" on page 2

Ordering information

Article	Description
H2O-AFHL-1	Single Arium Filter Housing® Advance L (1 pc.)
H2O-AFHL-2	Arium Double Filter Housing (1® Advance L pc.)

Used in conjunction with:

Device type: Arium® Advance L, Arium® Advance, Arium® Comfort

Reverse Osmosis Module for Arium®Advance L

Reverse Osmosis Modules with Energy Saving Membrane



-High-performance reverse osmosis membrane for environmentally friendly and cost-effective operation

- Continuous flow
- Reliable water quality

Description

The Arium reverse osmosis module optimizes water consumption and, as standard, retains up to 98% of salts and 99% of bacteria.

Technical specifications

Material

Reverse membrane osmosis	Spiral wound polyamide membrane
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Dimensions [H x D]	53.8 x 10 cm
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The quality of the received water	See "Technical Specifications" on page 2
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Ordering information

Article	Description
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H2O-CRO-LF-1	Reverse Osmosis Membrane Arium®Advance L, low flow (1 pc.)
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H2O-CRO-HF-1	Reverse Osmosis Membrane Arium®Advance L, high flow (1 pc.)
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Used in conjunction with: Device type: Arium®Advance L

A set of pipe fittings for pre-filtration for Arium® Advance L

Reliable connection



Quick and reliable connection of pre-filter housings

Description

The Arium pipe fitting kit is used for the direct and easy connection of single or double pre-filter housings used as water pre-treatment units for Arium water treatment systems.

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Technical specifications

Material

Pipes and fittings	Blue copolymer tube in EPDM (ethylene-propylene rubber) braiding with stainless steel nipple with internal thread 3/4"
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Dimensions [length]	1.50 m
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The quality of the received water	See "Technical Specifications" on page 2
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Ordering information

Article	Description
H2O-AHSL-1	Arium pipe fittings kit® Advance L (1 pc.)

Used in conjunction with:

Device type: Arium filter housing

® Advance L