

Arium[®] Advance L Reverse Osmosis System

Compact for large volumes

Benefits

- Reliable: Constantly reduce salts, ions, bacteria and organics from feed water
- Efficient: Produces volumes up to 200 liters per hour
- Intuitive: Equipped with user-friendly menu navigation
- Modular: Select the tank and flow rate you need



Product Information

The Arium[®] Advance L laboratory water systems are designed for a reverse osmosis water requirement of up to 200 L/h. Combined with the integrated 100 or 200 liter storage tank the system provides the ideal volume of pre-treated feed water for your laboratory. The system can simultaneously feed several laboratory instruments at once, thanks to the powerful distributor pump. Its compact, square shape reduces space requirements to a minimum.

Reliable

The Arium® Advance L system ensures a constant supply of high-quality pure water. The highly efficient reverse osmosis module reliably removes up to 98% of salts and organic molecules, and greater than 99% of bacteria from feed water.

Intuitive

Thanks to the clear display and the well-structured menu, you always have direct access to all important information. A handy keypad lets you control all functions intuitively and easily.

Efficient

With the flow rate of 100 or 200 l/h the Arium® Advance L provides the ideal volume for your daily requirement of pre-treated water.

Modular

The Arium® Advance L can fit in almost any lab environment and space because of its compact design.

Technical Specifications

Water purification method	Particle filtration, adsorption by means of activated carbon and reverse osmosis
Dimensions ² : width × depth × height	58 × 62.5 × 79.6 cm or 60 × 62.5 × 134.0 cm
Empty weight ²	66 or 70 kg
Operating weight ²	166 or 270 kg
Power supply	230 VAC (± 10 %); 50 Hz
Operating temperature at max. ⁸⁰ % relative humidity	5 – 35°C

Product Water Quality

Water type	Reverse osmosis water
Min. Production output ^{1,2}	100 or 200 L/h
Distribution pump flow rate at 4 bar	1 m ³ /h
Typical conductivity ¹	< 20 µS/cm
Typical ion retention	up to 98%
Retention of dissolved organic substances (MW > 300 Dalton)	> 99
Particle and microorganism retention	> 99

Feed Water Quality

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

Input pressure	3 – 6 bar
Temperature	5 – 25°C
Specific conductivity	< 1,500 µS/cm compensated to 25°C
TOC	< 2,000 ppb
Max. total hardness (max. CaCO ₃)	< 0.1 ppm
Free chlorine	> 99
Iron (total Fe content)	< 0.05 ppm
Fouling Index (SDI)	< 3 %/min
Turbidity	< 1 NTU
pH value	4 – 10

¹ Measured at feed water in drinking water quality of: 10°C | 15°C, 3 bar, TDS ≤ 500 mg/l ± 15%, SDI ≤ 3.0, oxidants (Fe and Mn) ≤ 0.05 mg/l.

² Depending on system type. The first value corresponds to the system with 100 liter tank, the second value corresponds to the system with 200 liter tank.

Ordering Information

Arium® Advance L reverse osmosis system for the production of pure water

Scope of supply: Arium® Advance L reverse osmosis system, RO-(reverse osmosis) module, connection kit for system and pre-filter housing, 5 µm pre-filter, activated carbon filter and dual filter housing.

Order Number	Size
H2O-RO-L -100	Arium® Advance L system, flow rate 100 l/h with 100 L integrated tank
H2O-RO-H-100	Arium® Advance L system, flow rate 200 l/h with 100 L integrated tank
H2O-RO-L -200	Arium® Advance L system, flow rate 100 l/h with 200 L integrated tank
H2O-RO-H -200	Arium® Advance L system, flow rate 200 l/h with 200 L integrated tank

Accessories

Arium® Advance L Pre-Filter

Secure protection of the RO module



- 5 µm filter for the retention of Partikeln

Description

The Arium® Advance L 5 µm pre-filter protects and increases the running life of the downstream reverse osmosis module. The filter reliably removes suspended particles and particle contamination from the feed water.

Intended Use

Device type: Arium® Advance L Filter Housing

Technical Specifications

Material	
Cleaning material	Filter made of polypropylen with 5 µm separation rate
Dimensions [W×H×D]	18×26×11 cm
Feed water requirements	See "Technical Specifications" page 2

Ordering Information

Order Number	Description
H2O-CPFL-1	Arium® Advance L Pre-Filter (1 pcs.)

Arium® Advance L Activated Carbon Filter

Efficient removal of organic impurities



- Fast and effective adsorption of contaminants by high quality activated carbon

Description

The Advance L activated carbon filter effectively removes free chlorine and organic contamination.

Technical Specifications

Material	
Cleaning material	Activated carbon
Dimensions [W×H×D]	18×26×11 cm
Feed water requirements	See "Technical Specifications" page 2

Ordering Information

Order Number	Description
H2O-CACL-1	Arium® Advance L Activated Carbon Filter (1 pcs.)

Intended Use

Device type: Arium® Advance L Filter Housing

Arium® Advance L Filter Housing

Efficient Pre-treatment



- Easily and fast installation of filter housing and material
- Integrated wall mounting bracket

Description

The Arium® Advance L filter housing as either one-stage or two-stage allows for flexible configurations of filters for pretreatment of water according to your system requirements.

Technical Specifications

Material	
Housing	Polypropylen
Dimensions [W×H]	14.5 (single) 26.0 (double) × 24.5 cm
Product water quality	See "Technical Specifications" page 2

Ordering Information

Order Number	Description
H2O-AFHL-1	Arium® Advance L Single Filter Housing (1 pcs)
H2O-AFHL-2	Arium® Advance L Dual Filter Housing (1 pcs)

Intended Use

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

Arium® Advance L RO-Module

Reverse osmosis modules with low-energy membrane



- Highly efficient reverse osmosis membrane, for an ecologically economical operation
- Constant flow
- Reliable water quality

Description

The Arium® Advance L RO module optimize water consumption and typically retain up to 98% of salts and 99% of bacteria.

Technical Specifications

Material	
RO-Membrane	Spiral wound membrane, made of polyamid
Dimensions [H×D]	53.8×10 cm
Product water quality	See "Technical Specifications" page 2

Ordering Information

Order Number	Description
H2O-CRO-LF-1	Arium® Advance L RO Membrane, Low Flow (1 pcs.)
H2O-CRO-HF-1	Arium® Advance L RO Membrane, High Flow (1 pcs.)

Intended Use

Device type: Arium® Advance L

Arium® Advance L Filter Tubing Set

Reliable connection



- Fast and reliable connection of pre-filter housings

Description

The Arium® Advance L filter tubing set is used for direct and uncomplicated connection of single or dual filter housings used as pre-treatment for feed water with an Arium® pure water system.

Technical Specifications

Material	
Tubes & connectors	EPDM braided blue poly with 3/4" stainless steel female adapter
Dimensions [Length]	1.50 m
Product water quality	See "Technical Specifications" page 2

Ordering Information

Order Number	Description
H2O-AHSL-1	Arium® Advance L Filter Tubing Set (1 pcs)

Intended Use

Device type: Arium® Advance L Filter Housing

Sales and Service Contacts

For further contacts, visit
www.sartorius.com

Germany

Sartorius Lab Instruments GmbH & Co. KG
Otto-Brenner-Straße 20
37079 Goettingen
Phone +49 551 308 0

France & Suisse Romande

Phone +33 170 62 50 00

Italy

Phone +39 039 4659 1

Switzerland

Phone +41 44 746 50 00

India

Phone +91 80 4350 5250

Austria

Phone +43 17965760 0

Netherlands

Phone +31 30 60 53 001

U.K.

Phone +44 1372 737159

Malaysia

Phone +60 3 8996 0622

Belgium

Phone +32 2 756 06 90

Poland

Phone +48 61 6473830

Ukraine

Phone +380 44 411 4918

Singapore

Phone +65 6872 3966

Finland & Baltics

Phone +358 9 755 951

Portugal

Phone +351 800 855 800

Australia

Phone +61 3 8762 1800

South Korea

Phone +82 31 622 5700

Hungary

Phone +3623 457 227

Russian Federation

Phone +7 812 327 5 327

China

Phone +86 10 8042 6300

Thailand

Phone +66 2643 8361-6

Ireland

Phone +353 1 8089050

Spain

Phone +34 902 123 367

Hong Kong

Phone +852 2774 2678