



## arium® 613L

### Reverse Osmosis System



### Specifications

|                                       |                 |
|---------------------------------------|-----------------|
| Footprint<br>(Width × Height × Depth) | 58 × 81 × 58 cm |
| Product water quality                 |                 |
| Rejection rates*                      |                 |
| Monovalent ions:                      | Up to 98%       |
| Polyvalent ions:                      | Up to 99%       |
| Particles:                            | > 99%           |
| Microorganisms:                       | > 99%           |
| Dissolved<br>organics (MW > 300):     | > 99%           |
| Max.<br>recovery rate %*              | 40–80           |
| Conductivity, µS/cm*                  | < 20            |

### Description

arium® 613L reverse osmosis (RO) systems have been developed for applications requiring large volumes of RO water on a daily basis. Capable of delivering up to 300 L/h of purified water per hour, the arium® 613L is an efficient, reliable, low-maintenance RO system that is affordable as well.

The high-performance RO membranes reduce water wastage and provide excellent product water quality, whilst ensuring high retention rates of water constituents.

Product water storage is simplified by the use of an integrated 100-liter tank. The built-in distribution pump readily distributes the product water at a speed of 2 m<sup>3</sup>/h and 3.7 bar to the point of use.

### Applications

- Feed water for glassware machines, autoclaves and air humidifiers
- General laboratory applications
- Feed water for ultrapure water purification systems (ASTM type 1)

### Features

- High performance, low-energy, thin-film composite (TFC) RO membranes
- Feed pump which ensures stable pressure and water flow
- Permeate distribution pump
- 5-µm particle filter
- Integrated 100-L permeate tank
- Compact design
- High-quality integrated components (Grundfos pump, Danfoss valves)
- Fully assembled control panel. (No additional electrical installations required.)
- CE-certified
- Flow meter and manometer for control of permeate flow and pressure
- Integrated pressure sensor with alarm function
- Optional UV lamp and conductivity meter

\* Depends on feed water quality

## Specifications RO 613L

| Systems                   | 613L050    | 613L100    | 613L150    | 613L200    | 613L250    | 613L300    |
|---------------------------|------------|------------|------------|------------|------------|------------|
| Capacity [L/h]**          | 50         | 100        | 150        | 200        | 250        | 300        |
| Tank [l]                  | 100        | 100        | 100        | 100        | 100        | 100        |
| Electrical connection [V] | 230 (115)* | 230 (115)* | 230 (115)* | 230 (115)* | 230 (115)* | 230 (115)* |
| Power consumption [kW/h]  | 1.3        | 1.3        | 1.3        | 1.3        | 1.3        | 1.3        |
| Power frequency [Hz]      | 50 (60)*   | 50 (60)*   | 50 (60)*   | 50 (60)*   | 50 (60)*   | 50 (60)*   |
| Max. water temperature    | 25°C       | 25°C       | 25°C       | 25°C       | 25°C       | 25°C       |
| Max. water pressure       | 7 bar      | 7 bar      | 7 bar      | 7 bar      | 7 bar      | 7 bar      |
| Min. water pressure       | 2 bar      | 2 bar      | 2 bar      | 2 bar      | 2 bar      | 2 bar      |
| Weight (full) 150 kg      | 151 kg     | 152 kg     | 153 kg     | 154 kg     | 155 kg     |            |
| Number of membranes       | 1          | 2          | 3          | 4          | 5          | 6          |

\* RO system 613L---B (available on request)

\*\* Drinking water quality at 10°C, 3 bar, max. 500 mg/L total salt content  $\pm$  5% flow rate

\*\*\* Drinking water quality at 500  $\mu$ S/cm  
 40% without pre-treatment softening (standard)  
 80% with pre-treatment softening (option)

## Ordering Information

| Order No.  | Description                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 613L050    | Complete arium® RO system with distribution pump, 50 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, RO membrane and 100-L tank                                         |
| 613L050D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system) 50 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, RO membrane        |
| 613L100    | Complete arium® RO system with distribution pump, 100 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, RO membrane and 100-L tank                                        |
| 613L100D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system), 100 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, & 2 RO membranes |
| 613L150    | Complete arium® RO system with distribution pump, 150 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, 3 RO membranes and 100-L tank                                     |
| 613L150D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system), 150 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, & 3 RO membranes |
| 613L200    | Complete arium® RO system with distribution pump, 200 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, 4 RO membranes and 100-L tank                                     |
| 613L200D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system), 200 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, & 4 RO membranes |
| 613L250    | Complete arium® RO system with distribution pump, 250 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, 5 RO membranes and 100-L tank                                     |
| 613L250D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system), 250 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, & 5 RO membranes |
| 613L300    | Complete arium® RO system with distribution pump, 300 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, 6 RO membranes and 100-L tank                                     |
| 613L300D   | Complete arium® RO system without distribution pump (in conjunction with an external tank system), 300 L/h, 230 Volt, 50 Hz, including 5 $\mu$ m prefilter, & 6 RO membranes |
| 613AOV200  | Standard 200-L tank with system-controlled distribution pump (for RO 613L050D, 613L100D, 613L150D, 613L200D, 613L250D & 613L300D systems)                                    |
| 613AOV600  | Standard 600-L tank with system-controlled distribution pump (for RO 613L050D, 613L100D, 613L150D, 613L200D, 613L250D & 613L300D systems)                                    |
| 613AOV1000 | Standard 1000-L tank with system-controlled distribution pump (for RO 613L050D, 613L100D, 613L150D, 613L200D, 613L250D & 613L300D systems)                                   |
| 613L-AE002 | Conductivity meter                                                                                                                                                           |
| 613L-AE002 | UV lamp with housing                                                                                                                                                         |
| 613L-CH001 | 5 $\mu$ m Prefilter                                                                                                                                                          |
| 613L-CH002 | RO membrane                                                                                                                                                                  |

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