



# arium® 613CPM4-----V

Reverse Osmosis Modules



## Description

The arium® 613CPM4-----V reverse osmosis modules are designed for installation within the arium® RO 61316 and the arium® EDI 61215 systems. The arium® RO modules consist of two self-contained membrane-housings engineered for easy installation and reliable service. Each module contains a low energy thin film composite RO membrane (TFC) enclosed in a polypropylene housing. Each housing contains feed, permeate and concentrate water connections with internal flow control for membrane rinsing.

## Features and Benefits

The arium® RO modules are designed to produce up to 380 liters\* per day of RO permeate water. The low-energy TFC membranes require less energy (pressure) to produce a higher quantity of water/hour than comparable membranes of the same size. This reduces running cost by consuming less electric power.

The RO modules typically produce greater than 50% permeate recovery, which conserves water while still providing 99% or greater salt rejection.

Each time the systems shuts down with a full tank, the RO membranes are back-flushed with permeate water. Back-flushing with RO permeate water removes particles and potential scale forming salts from the membrane surface, promoting longer service life and reducing system maintenance. This back-flushing operation allows the RO membranes to be stored in RO permeate water instead of feed or mains water between service operations, which extends the service life of the membrane. At startup, the system will produce higher quality permeate water as compared to conventional systems that store membranes in feed water.

The product water is ideally suited for use as feed water to a Type 1 lab water system (e.g. arium® 611) or other device requiring pretreated water.

## Specifications

RO membranes:	low-energy polyamide thin-film composite
Housing:	Polypropylene

## Unit Dimensions

Height:	30.8 cm (12.13")
Diameter:	7.8 cm (3.07")

## Operation Weight

468 g (1.03 lbs) each

## Feed Pressure

Min:	1.2 bar   15 psi
Max:	6.8 bar   100 psi
Temperature:	5°C–35°C (41°F–99°F)

Silt Density Index:	< 3
Iron (Total as Fe):	< 0.1 ppm
Hardness (max CaCO <sub>3</sub> ):	360 ppm or softened water

## Output

Up to 380 liters per day\* (up to 16 liters per hour) at 25°C ± 20%

## Ordering Information

Order number:	613CPM4-----V
Quantity:	2 modules

\* depends on feed water quality and temperature

Sartorius Stedim Biotech GmbH  
August-Spindler-Strasse 11  
37079 Goettingen, Germany  
Phone +49.551.308.0  
Fax +49.551.308.3289  
www.sartorius-stedim.com

USA Toll-Free +1.800.368.7178  
UK +44.1372.737159  
France +33.442.845600  
Italy +39.055.63.40.41  
Spain +34.91.3586102  
Japan +81.3.3740.5407

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