



arium® EDI 61215

ASTM Type 2 Pure Water System



Description

The compact arium® EDI 61215 laboratory water purification system is designed to produce ASTM type 2 water for general laboratory applications.

The arium® EDI 61215 guarantees constant water quality and high economy for daily lab use, delivering purified water at a rate of at least 15 l/hr and retaining 99% of single- and multiple-charged ions as well as bacteria and viruses. These powerful RO membranes reduce loss of water, ensuring excellent quality of the purified water and a high retention rate of the constituents in the raw water.

The use of proven Ionpure® EDI technology guarantees the highest quality of reagent grade water (ASTM type 2). The arium® EDI 61215 purification procedure that combines reverse osmosis, softening and electronic | chemical desalting enables nearly maintenance-free and inexpensive supply of pure water. The continuous, automatic regeneration of the system eliminates the need to change used ion exchange resin.

The proven Ionpure® EDI technology offers convincing advantages:

- Pressure stability of up to 7 bar (approx. 101.5 psi)
- High retention rating of up to 95%
- Chemical-free deionization process
- Resistance to the build-up of biological deposits
- Maintenance-free performance

By the use of an optional closed pressurized tank (30, 70, 100 liter) the product water will be distributed with up to 3 bar to the point of use. This unique feature provides a pressurized product-water flow for all your lab applications. There is no need for an additional distribution pump.

Applications

- Reagent preparation
- Electrophoresis
- Pharmaceutical applications
- Microbiological media and buffer preparation
- General biotechnology applications
- Rinsing glass ware
- Feed water for ultrapure water systems
- Feed water for humidifiers autoclaves and dish washer

Features

- Four line alphanumeric display
- Simple menu navigation
- Displaying product and feed water quality, rejection rate of RO modules, tank-level, temperature etc.
- Production capacity up to 360 liter per day
- Automatic RO-membrane-back-flush with RO-permeate
- Constant flow rate
- Several alarm and service functions
- Automatic regeneration of the EDI stack
- Product water storage in open gravity or closed pressurized tank
- Serial interface RS-232
- PLC interface for external communication
- Flexible display unit can be mounted at the top, at the bottom or in a remote location up to 2.8 m from the system

Specifications

Unit Dimensions

| | |
|---------|------------------|
| Width: | 43 cm (16.85") |
| Height: | 48 cm (19") |
| Depth: | 33.4 cm (13.15") |

System Weight

20 kg (44 lbs)

Operation Weight

25 kg (55 lbs)

Electrical Power Requirements

100-240 V AC 50-60 Hz single phase

Inlet Feed Water Requirements

Potable tap water feed only (feed water to meet drinking water standards of the U.S., European Union or Japan)

| | |
|------------------------------------|---------------------------|
| Minimum inlet pressure: | 1.2 bar 17.4 psi |
| Maximum inlet pressure: | 6.8 bar 100 psi |
| Temperature: | 5°C-30°C (41°F-86°F) |
| Hardness (max CaCO ₃): | 360 ppm or softened water |
| Maximum inlet water conductivity: | < 2000 µS/cm |
| Maximum CO ₂ : | < 30 ppm |
| Silt density index: | < 5 |
| Free chlorine: | 3 ppm |
| Turbidity: | < 1 NTU |
| Iron (total as Fe): | < 0.1 ppm |

Ambient Temperature & Humidity

| | |
|------------|---|
| Operation: | 2°C-35°C (41°F-86°F) 80% relative humidity |
| Storage: | 5°C-45°C (41°F-113°F) 80% relative humidity |

Product Water Quality

Operating specifications EDI stack

Typical resistivity*: 10–15 MΩ × cm

Typical conductivity*: 0.1–0.07 μS/cm

Typical TOC level*: < 30 ppb

Rejection rates RO modules

Monovalent ions: Up to 98%

Polyvalent ions: Up to 99%

Particles: > 99%

Microorganisms: > 99%

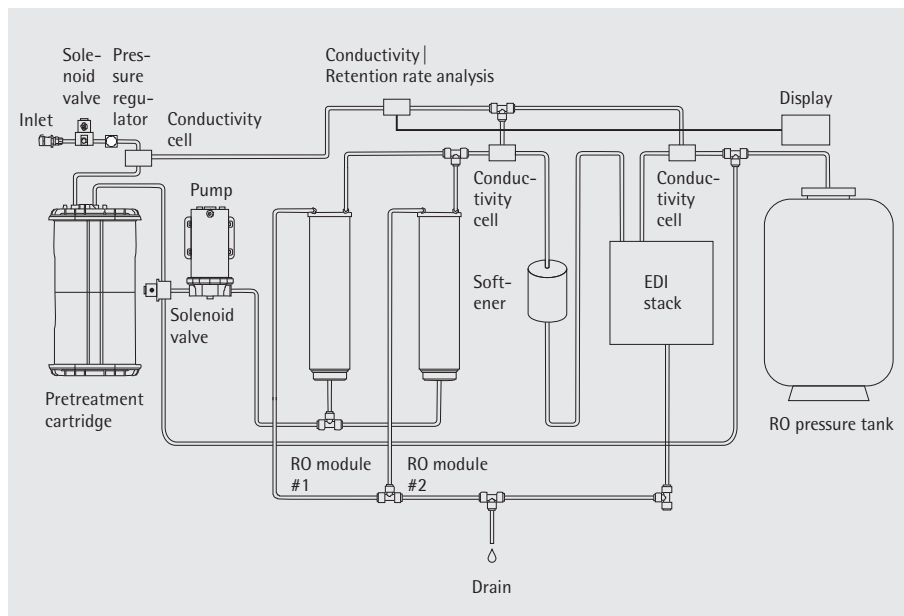
Dissolved organics (> 100 MW): > 99%

Product flow rate [l/h]* (± 20% at 25°C) 15

Maximum RO recovery rate* Approx. 55%

* Depends on feed water quality and temperature

Flow Chart



Ordering Information

| | |
|----------------|--|
| 61215 | arium® ASTM type 2 water system with built in EDI stack |
| 613CPF05-----V | 2 × pretreatment cartridges |
| 612CPS1-----A | 4 × softener cartridges |
| 613CPM3-----V | 2 × RO modules |
| 611CDS2 | Sanitization kit for the tank (2 syringes) |
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| 613AMDG1 | Dispense gun for tank |
| 613APV31 | 30-liter tank** |
| 613APV50 | 50-liter tank** |
| 613APV70 | 70-liter tank** |
| 613APV100 | 100-liter tank** |
| 61215030F05M1A | Complete arium® EDI 61215 type 2 water system with a tank capacity of 30 liter** (includes arium® EDI 61215, tank, 2 × RO modules, 4 × softener cartridges, 2 pretreatment cartridges + sanitizing syringes for RO modules & tank). |
| 61215050F05M1A | Complete arium® EDI 61215 type 2 water system with a tank capacity of 50 liter** (includes arium® EDI 61215, tank, 2 × RO modules, 4 × softener cartridges, 2 pretreatment cartridges + sanitizing syringes for RO modules & tank). |
| 61215070F05M1A | Complete arium® EDI 61215 type 2 water system with a tank capacity of 70 liter** (includes arium® EDI 61215, tank, 2 × RO modules, 4 × softener cartridges, 2 pretreatment cartridges + sanitizing syringes for RO modules & tank). |
| 61215100F05M1A | Complete arium® EDI 61215 type 2 water system with a tank capacity of 100 liter** (includes arium® EDI 61215, tank, 2 × RO modules, 4 × softener cartridges, 2 pretreatment cartridges + sanitizing syringes for RO modules & tank). |

** at 3 bar inlet pressure

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 Publication No.: SLG2042-e07113
 Order No.: 85032-533-09