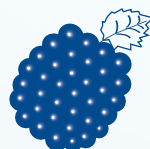


# BERRYPURE<sup>®</sup> MINI RO/EDI

COMPACT, EFFICIENT, RELIABLE



ISO 9001:2015 CERTIFIED



Berrytec<sup>®</sup>

# BERRYPURE® MINI RO+EDI

## COMPACT PURIFIED WATER SYSTEM FOR THE HIGHEST STANDARDS

If you require consistently high-quality RO and RO-EDI purified water for your applications, our Berrypure® Mini RO+EDI is the ideal solution. This compact system meets international water standards according to ASTM Type III and ASTM Type II, ISO 3696, depending on the selected system configuration.

Our purified water system can supply 30–100 liters of reverse osmosis water or further purified ASTM Type II water in a storage tank, depending on the configuration. It is perfectly suited for use in laboratory dishwashers, autoclaves, humidifiers, ultrapure water systems, and many other applications.

### Product Features

- **Compact Design** – Designed for applications with limited space, this space-saving system integrates seamlessly into laboratories or technical facilities without occupying valuable work areas.
- **State-of-the-Art Control** – The entire system is monitored via a high-resolution 7-inch touchscreen display. All key operating parameters are clearly visible at a glance, and the user-friendly menu allows for easy operation and customized settings.
- **Tank Level Monitoring** – A high-precision ultrasonic tank sensor ensures real-time monitoring of the storage tank's fill level. This guarantees optimal water availability while preventing dry running or overfilling.
- **Cost-Effective Maintenance with Optimized Durability** – The integrated pulsation pressure rinsing system minimizes membrane deposits and clogging, significantly extending the lifespan of the reverse osmosis unit. This reduces operating costs and minimizes maintenance efforts. Made in Germany ensures the highest quality and reliability.
- **Superior Water Purity** – A post-treatment EDI module (Electrodeionization) ensures consistently high water purity with conductivity below 1  $\mu\text{S}/\text{cm}$ , meeting ASTM Type II standards. The continuous removal of ions and impurities maintains stable, high-quality water over time.
- **Flexible Performance Spectrum** – Depending on demand, the system can be configured for purified water production of 10, 20, or 30 liters per hour. This allows for optimal adaptation to various applications, from small laboratories to larger facilities with continuous water requirements.
- **Customizable Tank Sizes** – The system offers a flexible selection of storage tank capacities, available in 30, 60, or 100 liters. This enables users to tailor the storage volume to their specific needs, ensuring a reliable supply of pure water at all times.

# INDUSTRIES & APPLICATIONS OF BERRYPURE® MINI RO+EDI

## 1. LABORATORIES & RESEARCH FACILITIES

**ANALYTICAL LABORATORIES – IDEAL AS A PRE-PURIFICATION STAGE FOR ULTRAPURE WATER SYSTEMS OR AS A DIRECT WATER SOURCE DEPENDING ON USER REQUIREMENTS:**

- Supply of **HPLC, GC-MS, and ICP-MS analyses** with high-purity water
- Minimization of **contaminants** to ensure precise measurement results

### CHEMICAL & PHARMACEUTICAL RESEARCH

- Preparation of **reagents and solutions** with consistently high purity
- Prevention of **contamination** in sensitive chemical processes

### BIOTECHNOLOGY & MOLECULAR BIOLOGY

- Supply of **cell cultures, PCR analyses, and protein purification**
- Avoidance of **DNA or RNA contamination** through purified water

## 2. MEDICAL TECHNOLOGY & HEALTHCARE

### HOSPITALS & CLINICS

- Purified water for **autoclaves and endoscope cleaning systems**
- Hygienic water supply for **laboratory analyses and diagnostic devices**

## 3. FOOD & BEVERAGE INDUSTRY

### BEVERAGE PRODUCTION & BREWERIES

- Purified water for **mixing processes, concentrates, and syrup production**
- Enhancement of **taste properties** by removing organic contaminants

### DAIRY & DAIRY PRODUCTS

- High-purity water for **sensitive dairy and fermented food products**
- Reduction of **microbiological risks** in production facilities

### FOOD PROCESSING

- Water purification for **cleaning processes, rinse water, and steam production**
- Improvement of **product shelf life** with high-purity water

## 4. ELECTRONICS & SEMICONDUCTOR INDUSTRY

### SEMICONDUCTOR & CHIP MANUFACTURING

- Supply of **ultrapure water (UPW)** for wafer cleaning and lithography
- Reduction of **particles and ionic contaminants** for the highest product quality.

### BATTERY & SOLAR CELL PRODUCTION

- Manufacturing of **lithium-ion batteries** with metal-ion-free water
- Process water for **photovoltaic module fabrication**

## 5. COSMETICS & PERSONAL CARE INDUSTRY

### SKIN CARE & COSMETICS PRODUCTION

- Ultrapure water for **creams, lotions, shampoos, and other beauty products**
- Reduction of **bacteria and contaminants** for extended product shelf life

### PERFUME & FRAGRANCE MANUFACTURING

- High-quality water as a **base for perfumes and fragrance blends**
- Ensuring **purity and stability** of sensitive ingredients

## 6. INDUSTRIAL & MANUFACTURING APPLICATIONS

### BOILER & STEAM SYSTEMS

- Treatment of **feedwater** to prevent deposits and corrosion
- Reduction of maintenance costs with **consistently high water quality**

### SURFACE TREATMENT & ELECTROPLATING

- Purified water for **rinsing and cleaning processes** in metal and plastic industries
- Improved **surface quality** with residue-free water treatment

### AUTOMOTIVE & AEROSPACE INDUSTRY

- Use in **painting processes and cooling circuits**
- Consistently high water quality for **sensitive production steps**

### OPTIONAL UPGRADES & ENHANCEMENTS:

- **Tank Recirculation** – Continuous circulation maintains **water quality**, reduces **sediment buildup**, and minimizes **microbial contamination risks**.
- **UV Sanitation** – An **integrated UV disinfection unit** effectively eliminates **bacteria, viruses, and other microorganisms**, ensuring sterile water quality.
- **Precision Dispenser for Volume Dosing** – A **programmable dispensing unit** allows for the **accurate extraction of predefined water volumes**, ideal for laboratory applications with repetitive processes.
- **Pressure Booster Pump** – For applications requiring **consistent water pressure**, an **integrated pressure pump** ensures steady water supply, even over **long distances or to connected devices** with specific pressure requirements.

### INTERIOR VIEW OF MEMBRANES AND CARTRIDGES:

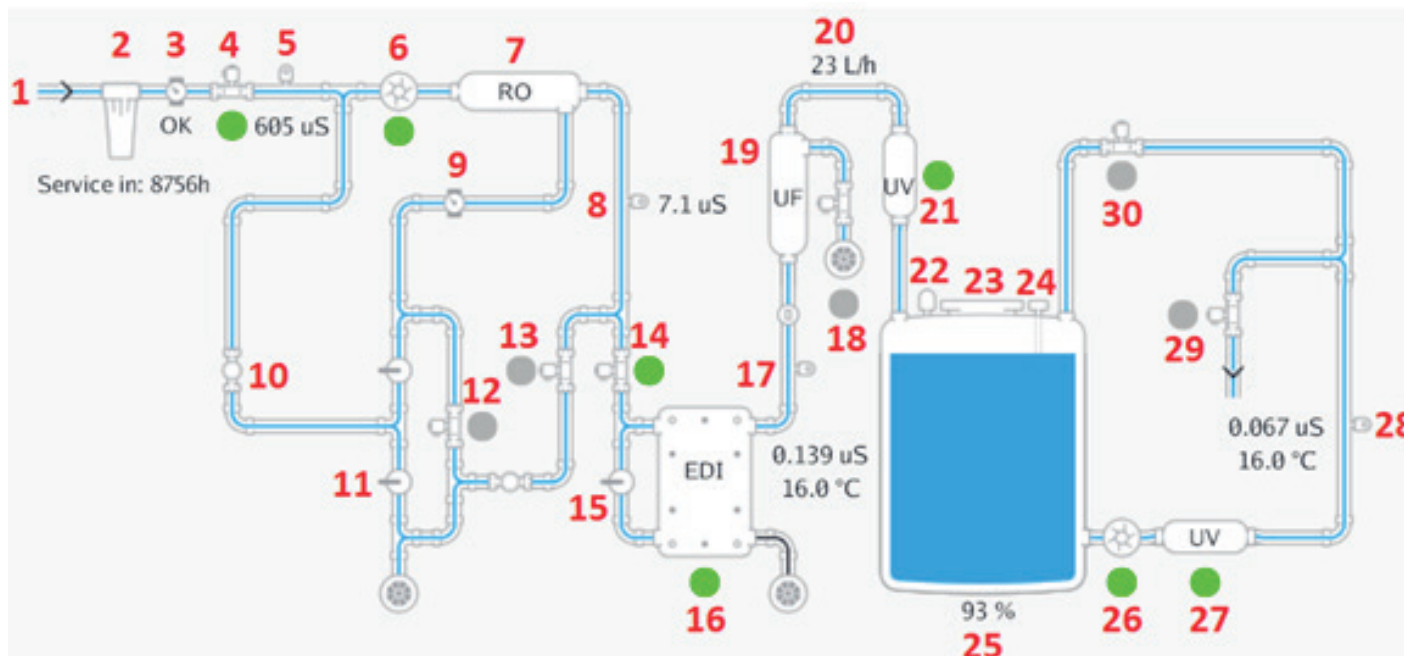


## MODEL OVERVIEW AND TECHNICAL DATA

	Berrypure® Mini RO 16	Berrypure® Mini RO 30	Berrypure® Mini RO 10	Berrypure® Mini RO 20	Berrypure® Mini RO 30
Pure water output at 15 °C [l/h]	16	30	10	20	30
Membrane retention rate for salts, bacteria, germs (%)	>98	>98	>98	>98	>98
Conductivity at 25 °C [ $\mu$ S/cm] without post-cleaning RO	5 to 8	5 to 8			
Conductivity at 25 °C [ $\mu$ S/cm] with post-RO and EDI purification	0,1 to 1	0,1 to 1	0,1 to 1	0,1 to 1	0,1 to 1
Resistance at 25 °C [ $M\Omega \times cm$ ]	10 to 1	10 to 1	10 to 1	10 to 1	10 to 1
TOC-Value* [ppb]	< 30	< 30	< 30	< 30	< 30
Silicate removal* [%]	> 99	> 99	> 99	> 99	> 99
Dispenser withdrawal capacity [l/min].	upto 2	upto 2	upto 2	upto 2	upto 2
Particles** > 0.2 $\mu$ m [1/ml]	< 1	< 1	< 1	< 1	< 1
Bacteria** [CFU/ml]	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1
Pressure outlet for clean water tank	optional	optional	optional	optional	optional
Feed water temperature [°C]	+ 2 to 35	+ 2 to 35	+ 2 to 35	+ 2 to 35	+ 2 to 35
Manganese and iron content [mg/l]	< 0,05	< 0,05	< 0,05	< 0,05	< 0,05
Chlorine content [mg/l]	< 0,1	< 0,1	< 0,1	< 0,1	< 0,1
Blocking index (SDI)	max. 3	max. 3	max. 3	max. 3	max. 3
Feed water connection	JG6	JG6	JG6	JG6	JG6
Operating pressure	2-6bar	2-6bar	2-6bar	2-6bar	2-6bar
Electrical connection	110-230V/50Hz	110-230V/50Hz	110-230V/50Hz	110-230V/50Hz	110-230V/50Hz
Power consumption	210Watt		250Watt		
Permissible operating temperature (C°)	+2 to 35	+2 to 35	+2 to 35	+2 to 35	+2 to 35
Dimensions of appliance WxDxH in cm	25x60x45	25x60x45	25x60x45	25x60x45	25x60x45
Tank dimensions 30 liters WxDxH in mm	350 x 600				
Tank dimensions 60 liters WxDxH in mm	350 x 900				
Tank dimensions 100 liters WxDxH in mm	450 x 1000				

# FLOWSCHEME

## Berrypure® ROEDI Modul:



- Active Parts
- Non-active parts

- |   |   |
|---|---|
| 1. Tap water / softened water inlet                       | 16. EDI cell  |
| 2. Pre-filter AK/FF                                       | 17. EDI – conductivity measuring cell                       |
| 3. Low-pressure switch / pressure gauge at inlet pressure | 18. Dialate – waste valve                                   |
| 4. Inlet solenoid valve                                   | 19. UF module (optional)                                    |
| 5. Temperature measuring cell                             | 20. Product display, flow meter (optional)                  |
| 6. RO pump  | 21. Bactericidal UV lamp (optional)                         |
| 7. RO membrane  | 22. Tank ventilation  |
| 8. Permeate – conductivity measuring point                | 23. Tank lid  |
| 9. Pressure gauge membrane pressure                       | 24. Tank level measurement                                  |
| 10. Recirculation controller                              | 25. Storage tank  |
| 11. Concentrate waste controller                          | 26. Distribution pump with pressure sensor                  |
| 12. RO flush solenoid valve                               | 27. UV lamp loop line                                       |
| 13. Permeate – waste valve                                | 28. Type II – conductivity measuring cell (optional)        |
| 14. Permeate – product valve                              | 29. Ultrapure water outlet (optional), distribution line    |
| 15. EDI waste controller                                  | 30. Recirculation valve / pressure holding valve (optional) |

# ORDER LIST

## Osmosis Systems

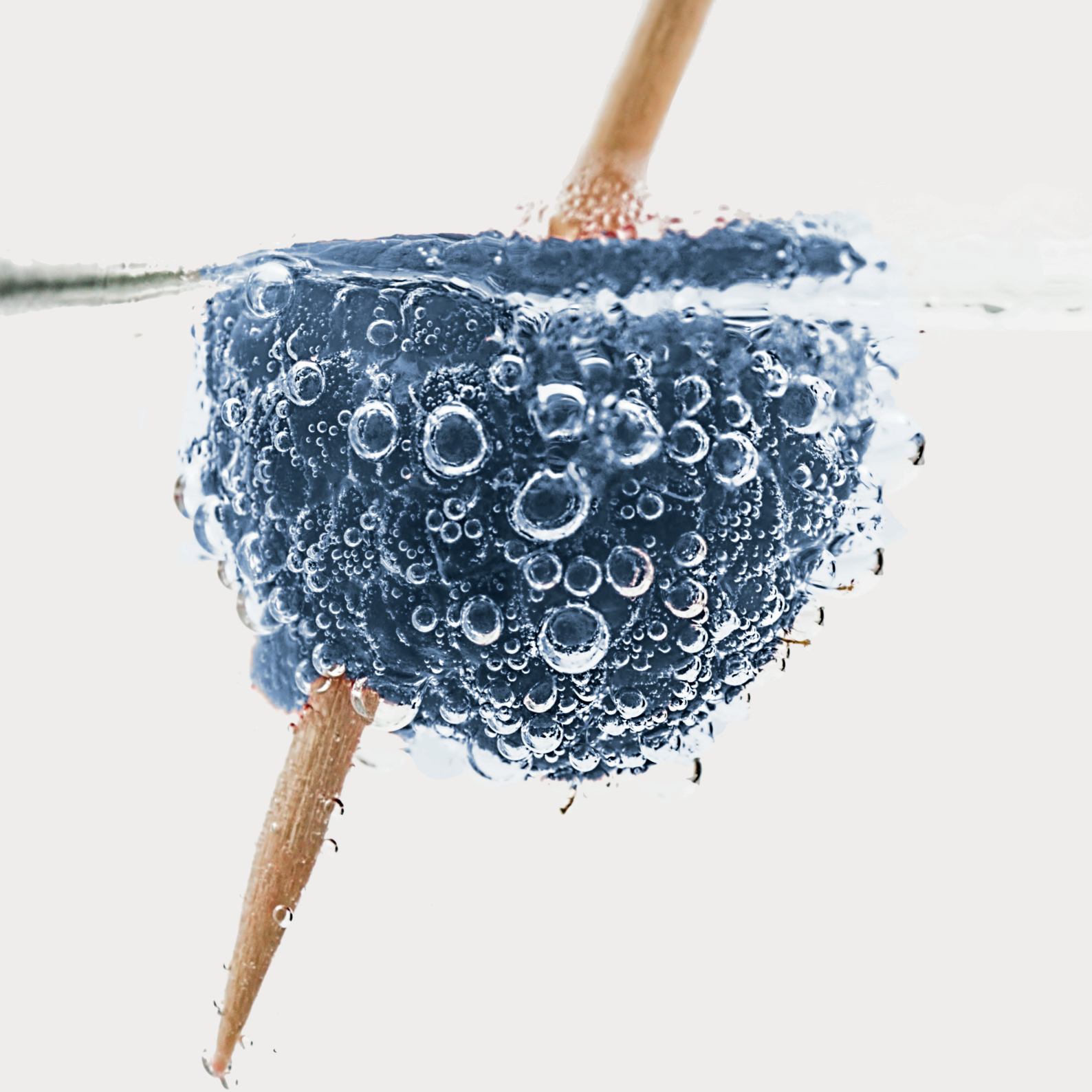
- 8001060 Berrypure® Mini RO16 – Reverse osmosis system, maximum capacity 16 L/h, with residual desalination. Final purity with Berrypure® post-treatment (ASTM Type 2) better than 1 µS/20°C. Compatible with 30–100 L tank modules. Control board, 7" touchscreen, dimensions 50 x 25 x 43 cm (LxWxH), ready for connection.
- 8001080 Berrypure® Mini RO30 – Reverse osmosis system, maximum capacity 30 L/h, with residual desalination. Final purity with Berrypure® post-treatment (ASTM Type 2) better than 1 µS/20°C. Compatible with 30–100 L tank modules. Control board, 7" touchscreen, dimensions 50 x 25 x 43 cm (LxWxH), ready for connection.
- 8001070 Berrypure® Mini EDI10 – Reverse osmosis system, maximum capacity 10 L/h, with residual desalination. Final purity with EDI cell (ASTM Type 2) better than 1 µS/20°C. Compatible with 30–100 L tank modules. Control board, 7" touchscreen, dimensions 50 x 25 x 43 cm (LxWxH), ready for connection.
- 8001090 Berrypure® Mini EDI20 – Reverse osmosis system, maximum capacity 20 L/h, with residual desalination. Final purity with EDI cell (ASTM Type 2) better than 1 µS/20°C. Compatible with 30–100 L tank modules. Control board, PLC with 7" touchscreen, dimensions 50 x 25 x 43 cm (LxWxH), ready for connection.
- 8001095 Berrypure® Mini EDI30 – Reverse osmosis system, maximum capacity 30 L/h, with residual desalination. Final purity with EDI cell (ASTM Type 2) better than 1 µS/20°C. Compatible with 30–100 L tank modules. Control board, PLC with 7" touchscreen, dimensions 50 x 25 x 43 cm (LxWxH), ready for connection.

## Tank Modules, Sensors & Optional Accessories

- 8003330 Tank 30 – 30 L tank with 3/4" connection for booster pump.
- 8003340 Tank 60 – 60 L tank with 3/4" connection for booster pump.
- 8003344 Tank 100 – 100 L tank with 3/4" connection for booster pump.
- 8004360 Tank Level – Ultrasonic tank level sensor.
- 8000004 Dispensing Unit – Volume dosing dispenser including touchscreen.
- 3001252 CO<sub>2</sub> Vent Filter – Vent filter with CO<sub>2</sub> adsorber.
- 8003345 Tank Wall Mount – Wall mount for 30–100 L tanks.
- 8001400 RO/UP Wall Mount – Wall mount for RO/UP systems.
- 8003400 Tank Recirculation Module – Ensures continuous circulation for stable water quality.
- 8003350 UV Tank Disinfection – 254 nm UV disinfection for the tank.
- 525100 Booster Pump – With fluid control, 4 m<sup>3</sup>/h capacity.
- 8007050 Cartridge Holder – Compatible with all Berrypure® cartridges.

## Consumables

- 3001252 CO<sub>2</sub> Vent Filter – Vent filter with CO<sub>2</sub> adsorber.
- 8003360 Replacement UV Lamp – For tank disinfection (replacement every 2 years).
- 8001393 Pre-Treatment Pack – Large osmosis pre-treatment pack.
- 8001397 Easyfix 100 Membrane – Easyfix membrane 100.
- 8001421 Easyfix 200 Membrane – Easyfix membrane 200.
- 8001398 Easyfix Combo – Easyfix combination AK/PP1.
- 8001402 Easyfix Solo PP5 – Easyfix Solo PP5 membrane.
- 8001403 Easyfix Filter Head – For all Easyfix cartridges (except osmosis membranes).
- 8001405 Easyfix Solo PP1 – Easyfix Solo PP1 membrane.
- 8001414 Easyfix Solo ASC – Easyfix Solo ASC membrane.



# Berrytec®

Berrytec GmbH  
Schwablweg 15  
85630 Harthausen  
Germany

[kontakt@berrytec.eu](mailto:kontakt@berrytec.eu)  
Tel: +49 8106/3790-22  
[www.berrytec.net](http://www.berrytec.net)