

ULTRAPURE WATER TYPE 1 BERRYPURE[®] MINI SERIES



 Berrytec[®]

TECHNICAL DATA:



Ultrapure water system for water quality ASTM Type I

18.2 MΩ/cm, or 0.055 μS/cm

Fully automatic control unit with all information display 7" touch panel, flow control, adjustable pump and integrated pressure reducer

Patented valve chamber with dead space free flushing


Languages German, English

Flexible dispenser arm, plastic housing Dimensions BerryPure® Mini L500 x W250 x H430mm

Self-priming version possible, you can supply the system with distilled water taken from a tank, so no water connection is required

Feed water quality	distilled feed water better than 10 μS/cm, ppm TDS, 0.640
Ultrapure water UP class	Standard BerryPure® Mini, optional with UV and UF
Quality BerryPURE® UP	0.055μS/cm / 18.2 MΩhm/cm, ASTM Type I
TOC	<5 ppb reading 999-1ppb, Measurement method Real-time differential measurement
Bacteria	<99,9%
Endotoxins with UF module	EU/ml 0.001
with UF module	RNase 1pg/ml, DNase 4pg/ml, protease 0.20ug/ml
UV lamp	185 + 254nm
Temperature	automatic compensation at 25°C or without temperature compensation
Flow rate	1-2 ltr/min
Volume dosing	0,01-99,99Ltr., accuracy +/-1,2% calibratable
Height adjustable dispenser arm	0-400mm freely adjustable
Ultrapure water cartridges	2x UP cartridge 8001394
Final filter	1xend filter 0,22μm 8002380, or 0,1μm
Cartridge change	Information on display
UV lamp	1x 8002410 185 + 254nm
Circulation	Interval

MODEL OVERVIEW BERRYPURE MINI

Series	mini-UP	mini-UPUV	mini-UPUF	mini-UPUVUF
Conductivity at 25°C	0,055 µS/cm 18,2 MΩ/cm	0,055 µS/cm 18,2 MΩ/cm	0,055 µS/cm 18,2 MΩ/cm	0,055 µS/cm 18,2 MΩ/cm
Feed water requirement	We recommend the use of one of our osmosis-EDI systems or  Berrytec® purification cartridges. The following specifications of the feed water should be met: Colloid index (SDI) max. 2, conductivity < 5 µS/cm - 10 MΩ, free chlorine max. 0.05 ppb, TOC value 50 ppb, turbidity <1.0 NTU, CO2 max. 30 ppm, silicate			
Flow rate	maximum 1-2 Ltr./min pump capacity can be controlled			
Endotoxins²	-	-	0,001 EU/ml	0,001 EU/ml
TOC values³	≤ 10 ppb	≤ 5 ppb	≤ 10 ppb	≤ 5 ppb
Particles >0.2 µm/ml	<1			
Bacteria content in KBE/ml⁴	<1			
Application examples	instrumental analysis methods, AAS, IC, ICP	highly sensitive instrumental analysis methods such as the HPLC, ICP-MS, TOC analysis, MC	Molecular biology such as PCR, DNA, cell culture, monoclonal antibodies	Molecular biology such as PCR, DNA, cell culture, monoclonal antibodies ICP-MS
Voltage	230 VAC 50-60 Hz / 24 VDC 4A			
Current consumption	80 Watt	90 Watt	80 Watt	90 Watt
Inlet pressure	1-6 bar pressure reducer integrated (self-priming possible)			
Permissible ambient temperature	Minimum +3°C to maximum 35°C			
Dimensions housing	D 500 mm x W 250 mm x H 430 mm			
Dimensions dispenser	D 250 mm x W 300 mm x H 720 mm			
Weight	11 kg	11,5 kg	11,5 kg	12 kg

² depending on disinfection and feed water quality; ³ depending on feed water; ⁴ colony forming units

BERRYPURE MINI-UP SERIES

Models	UP+	UPUV+	UPUF+	UPUVUF+
Dimensions	D 500 mm x W 250 mm x H 430 mm			
Current consumption	230 VAC 50-60 Hz			
Order number	8002120	8002130	8002150	8002140
UV lamp	No	Yes	No	Yes
Ultrafiltration module	No	No	Yes	Yes

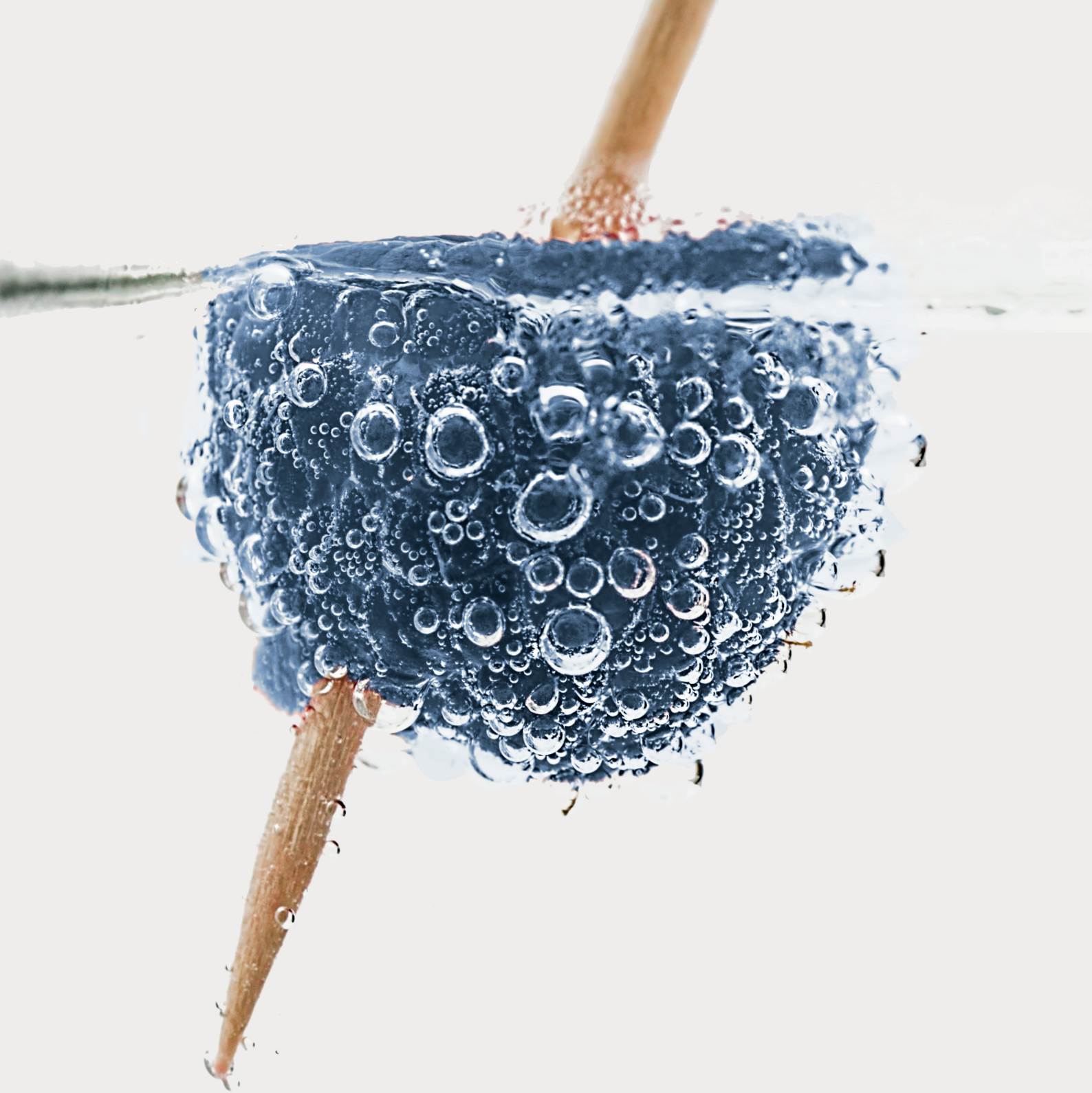
Berrypure Mini-UP series with separate dispenser, volume dosing function 0.1-99.9 liters and function control display on the dispenser, as well as recirculation.
 System module without display with connection line 1.5 meters (standard length), the module can thus also be placed under the table. Thus, there is no device on your lab bench.
 All technical data and functions are otherwise identical.

Order number	8002121	8002131	8002151	8002141
UV lamp	No	Yes	No	Yes
Ultrafiltration module	No	No	Yes	Yes

Optional accessories for the Berrypure mini-UP+ series

TOC module	8002100 TOC measuring module suitable for all Berrypure® Mini UP ultrapure water systems with UV lamp
Wall holder	8002440 Wall bracket
External leakage water detector	8007131 Operation via battery
Consumable material	
Final filter 0.22 µm	8002380 recommended change every 3-6 months
Final filter 0.1 µm	8002382 recommended change every 3-6 months
UP-Easyfix (2x necessary)	8001394 Service life ² (1 year)
UV replacement lamp	8002410 Service life ² (max. 2 years) (For systems with online TOC 1 year)
UF replacement filter	8002422 Service life ² (max. 3 years)
DI pre-cleaning	8001392 Lifetime ²
Particle filter	8001405 Lifetime ²

- **Space-saving footprint** of only D 500 mm x W 250 mm x H 430 mm (without external dispenser arm)
- Our **illuminated touch screen display** provides you with the most important information about the status of your system
- Water quality **18.2 MΩ/cm**, or 0.055µS/cm. Ultrapure water system for ASTM Type I water quality (recommended daily volume up to 20 liters).
- Fully automatic control unit with all information display 7" touch panel.
- Status display with colour background (green, yellow, red), quality history via bar chart
- Optional remote maintenance and sampling protocol convertible
- Feed water 1 to 10 µS/cm possible, **optionally via suction operation with the integrated self-priming pump** from a tank with deionized water, or with upstream osmosis package no. 8001065 Osmosis package for mini-UP series Direct osmosis mini-ROUP with pressure tank 3 ltr. RO capacity 100 ltr./h with purification cartridges Dimensions without tank L500 x W200 x H430 mm, for upstream connection as module for mini-UP systems
- **TOC value <5 ppb** (with UV as well as feed water via osmosis or EDI). Optional online TOC measurement
- **UV lamp 185 nm and 254 nm** automatic switching on during removal and recirculation (function monitoring)
- Ultrafiltration module for **endotoxin values in EU/ml 0.001**
- **Flow rate 1 - 2 ltr./min.** Power of the pump can be regulated (0-100%)
- **Self-priming recirculation pump**, self-priming supply of your ultrapure water system with feed water from an **external tank** is possible
- Display of conductivity and temperature optionally compensated to 25°C
- Measurement of **input conductivity** with limit setting for control and protection of your system
- **Inlet pressure up to 6 bar**, possible due to the integrated pressure reducer, integrated pressure switch protects against dry running
- **Flexible sampling tap** with final filter 0.22 µm or 0.1 µm
- **No dead volume**, recirculation up to the extraction valve chamber
- Setting and monitoring of limit values, such as: Conductivity, Cartridge change, UV lamp change, etc
- **Long service life** of the ultrapure water cartridge for best water quality and low TOC values
- With a feed water of <1 µS/cm up to 5,000 Ltr. lifetime.
- Floor model, wall mount is available as an option
- The Berrypure Mini-UP series is available as a separate series with an external dispenser. This makes it possible to place the supply module in your laboratory base cabinet
- **Easy replacement** of the UP Pack and the UV lamp



Berrytec®

Berrytec GmbH
Schwablweg 15
85630 Harthausen
Germany

kontakt@berrytec.eu
Tel: +49 8106/3790-22
www.berrytec.eu