BERRYPURE® MINI

MINIMAL FOOTPRINT, MAXIMUM DISPENSING

BEST SOLUTION FOR TYPE I AND TYPE II WATER DISPENSING (OPTIONAL RO)

ISO 9001:2015 CERTIFIED

Berrytec®

INTRODUCING BERRYPURE® MINI

Your all-in-one solution for Pure and Ultrapure water, tailor-made to meet every requirement with efficiency and precision. Our space-saving housing concept is the perfect solution for pure and ultrapure water (model version miniRO), especially when ultrapure water is essential for your laboratory.

THE BERRYPURE® MINI – YOUR ALL-IN-ONE SOLUTION FOR PURE AND ULTRAPURE WATER

The Berrypure® Mini is more than just a compact water purification system. It combines efficiency, flexibility, and excellent value for money. With advanced features such as optional TOC monitoring, an energy-efficient UV lamp, and our user-friendly 7" touch panel, the Berrypure® Mini ultrapure water system offers the perfect combination of quality and performance at an affordable price.

1. COMPACT AND SPACE-SAVING DESIGN – IDEAL FOR YOUR LABORATORY

The Berrypure® Mini ultrapure water system is designed with functional and space-saving housing, ensuring easy maintenance and accessibility. If your laboratory requires ultrapure water but has limited space, this system is the perfect solution. Despite its compact size, the Berrypure® Mini maintains high performance and capacity while allowing for easy installation without compromise.

2. MULTIPLE FEED WATER OPTIONS FOR MAXIMUM FLEXIBILITY

We offer different feed water options for the Berrypure® Mini ultrapure water system:

- DIRECT CONNECTION TO TAP WATER (OPTIONAL MINI RO)
  The Berrypure® Mini can be directly connected to your tap water supply, allowing it to produce both Type I (ultrapure water) and Type II (pure water). This makes it a versatile solution for various applications, from routine lab tasks to advanced research requirements.

- CONNECTION TO AN EXISTING DI/VE WATER SUPPLY
  The system can also be connected to an existing deionized (DI) or ultrapure water supply, offering additional convenience. Whether you need ultrapure water for sensitive processes or high-quality purified water for daily use, the Berrypure® Mini adapts seamlessly to your specific needs.

- SELF-PRIMING PUMP FOR WATER FROM A STORAGE CONTAINER
  As a third option, the Berrypure® Mini features a self-priming pump, which allows it to draw pre-purified water from a storage container. The system then automatically ensures optimal ultrapure water quality, providing a hassle-free and efficient purification process.

3. INCREASED PRODUCTIVITY, ENERGY EFFICIENCY, AND COST SAVINGS

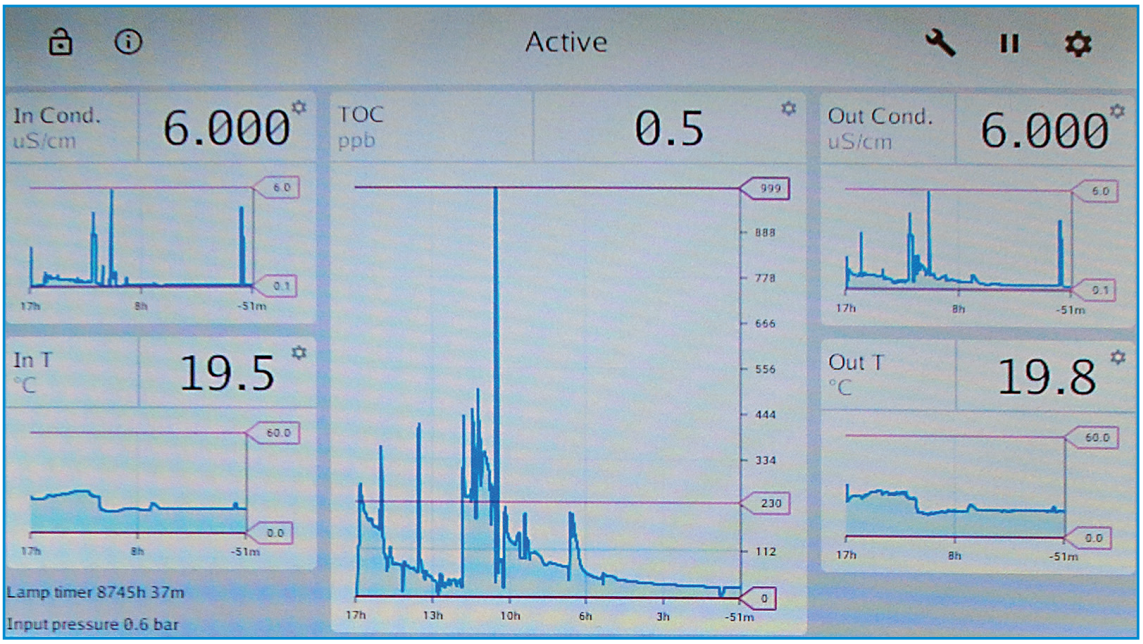
PREHEATED UV LAMP FOR ENERGY, COST, AND TIME SAVINGS

The Berrypure® Mini is equipped with a preheated UV lamp, significantly reducing energy consumption and operational costs. This extends the UV lamp's lifespan, increasing efficiency and ensuring a high-quality purification process without unnecessary energy waste.

- Faster Performance: The preheated UV lamp reaches optimal operating levels quickly.
- Longer Lifespan: Less wear extends the durability of the UV lamp.
- Lower Operating Costs: Energy-efficient technology helps reduce electricity consumption.

4. ADVANCED MONITORING AND CONTROL

INTEGRATED TOC MONITORING (OPTIONAL FEATURE)



The Berrypure® Mini includes an optional TOC monitoring system (available only with UV systems), which is particularly beneficial for critical applications in analytics, HPLC, microbiology, and other high-purity water requirements.

- Real-Time Water Quality Measurement: TOC values between 0.5 – 100 ppb are monitored.
- No Simulated Readings: Instead of relying on predictive algorithms, the system ensures that Type I ultrapure water is only dispensed when the quality reaches 0.055 µS/cm.
- Comprehensive Monitoring: Temperature and conductivity are continuously tracked for precise quality control.
- Faster Performance: The preheated UV lamp reaches optimal operating levels quickly.
- Longer Lifespan: Less wear extends the durability of the UV lamp.
- Lower Operating Costs: Energy-efficient technology helps reduce electricity consumption.

5. FLEXIBILITY TO MEET VARIOUS NEEDS

The Berrypure® Mini offers a range of models with different configurations to meet diverse user requirements.
Industry and Laboratory Applications:

PHARMACEUTICAL INDUSTRY (EXCLUDING WATER FOR INJECTION FORMULATIONS)
- Applications: Laboratory testing, drug production (excluding WFI applications), cleanroom environments.
- Requirement: Type I and Type II water for oral drug manufacturing, cleaning, and quality control.

BIOTECHNOLOGY & LIFE SCIENCES
- Applications: Cell culture, genetic research, PCR, microbiological testing, and lab research.
- Requirement: Ultrapure water to ensure accurate results and prevent contamination.

LABORATORIES & RESEARCH INSTITUTIONS
- Applications: Academic research, chemical analysis, environmental testing, and sample preparation.
- Requirement: Type I ultrapure water for precise testing and research.

COSMETICS INDUSTRY
- Applications: Product development, formulation, and testing.
- Requirement: Ultrapure water to prevent contamination and ensure product integrity.

FOOD & BEVERAGE INDUSTRY
- Applications: Food processing, packaging, and lab testing for safety and quality.
- Requirement: High-purity water that meets health and safety regulations.

ENVIRONMENTAL TESTING
- Applications: Water quality analysis, environmental impact studies, air and soil testing.
- Requirement: Type II purified water for accurate environmental assessments.

ELECTRONICS & SEMICONDUCTOR MANUFACTURING
- Applications: Circuit board and semiconductor production.
- Requirement: Ultrapure water for precision rinsing and contamination control.

HOSPITALS & HEALTHCARE FACILITIES
- Applications: Sterilization, laboratory testing, and medical equipment cleaning.
- Requirement: High-quality water for medical safety and diagnostics.

CHEMICAL INDUSTRY
- Applications: Chemical synthesis, quality control, and production.
- Requirement: High-purity water for contamination-free chemical processing.

UNIVERSITIES & ACADEMIC INSTITUTIONS
- Applications: Research, lab experiments, and scientific studies.
- Requirement: Type I ultrapure water for a broad range of academic research.

AGRICULTURE & HORTICULTURE
- Applications: Plant research, soil testing, and crop studies.
- Requirement: Clean water for agricultural research and growth experiments.

VETERINARY CLINICS & ANIMAL RESEARCH
- Applications: Veterinary studies, breeding research, and lab testing.
- Requirement: High-purity water for animal welfare and precise testing results.

CLEANROOM MANUFACTURING
- Applications: Production of sterile products and medical devices.
- Requirement: Ultrapure water for strict contamination control.

6. ENHANCED DATA SECURITY & COMPLIANCE

21 CFR-COMPLIANT TOUCHSCREEN (OPTIONAL FEATURE)

For industries requiring strict regulatory compliance, the Berrypure® Mini offers an optional 21 CFR-compliant touchscreen.

- Secure Data Management: Ensures that all data processing meets industry regulations.
- User-Friendly Interface: The intuitive design improves interaction and workflow efficiency.
- Ideal for Regulated Environments: Suitable for industries where data integrity is critical.

7. COST-EFFICIENT MAINTENANCE

LOW MAINTENANCE & EASY UPKEEP

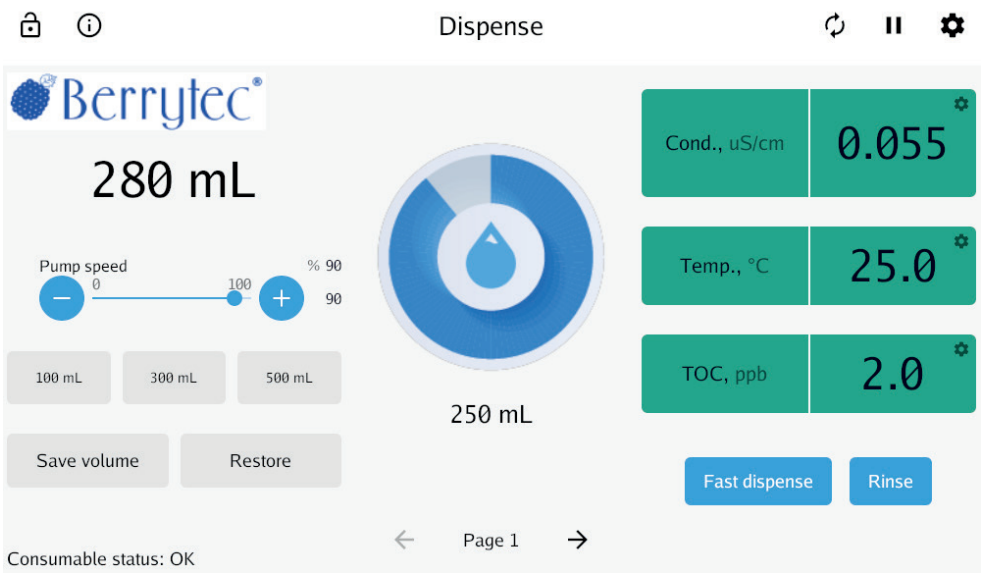
The Berrypure® Mini is designed for cost-efficient operation with minimal maintenance.

- Integrated TOC monitoring eliminates the need for a separate system.
- High-quality, affordable consumables (purification cartridges, end filters, UV lamps).
- Made in Germany – ensuring top-tier quality and reliability.

8. INTUITIVE USER INTERFACE

EFFORTLESS OPERATION WITH A 7" TOUCHSCREEN

- Simple and user-friendly navigation – no extensive training required.
- Fast and efficient operation – increases productivity.
- Ideal for both beginners and professionals.
- Flexible Dispensing Options
- Adjustable flow rates – up to 1.7 L/min.
- Customizable volume dispensing from 1 mL to 50,000 mL with precise calibration.
- Pre-set programmable options for easy access.



9. CONTINUOUS RECIRCULATION FOR OPTIMAL WATER QUALITY

PATENTED VALVE CHAMBER FLUSHING SYSTEM

- Prevents water stagnation and maintains consistent ultrapure quality.
- Ensures high-purity water at every dispense.

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 monitoring of all functions on a 7“ touch panel display

Patented valve chamber with dead space free flushing

Languages German, English, French, Arabic and many others

Flexible dispenser arm, plastic housing, both sides easy to open
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

Optional integrated osmosis for tab water connection

Feed water quality	Distilled feed water better than 5 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	2 x UP cartridge 8001394
Final filter	1 x end filter 0,22µm 8002380, or 0,1µm
Cartridge change	Information on display
UV lamp	1 x 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, 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			
Endotoxins[2]	-	-	0,001 EU/ml	0,001 EU/ml
TOC values[3]	≤ 10 ppb	≤ 5 ppb	≤ 10 ppb	≤ 5 ppb
Particles >0.2 µm/ml	<1			
Bacteria content in KBE/ml[4]	<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

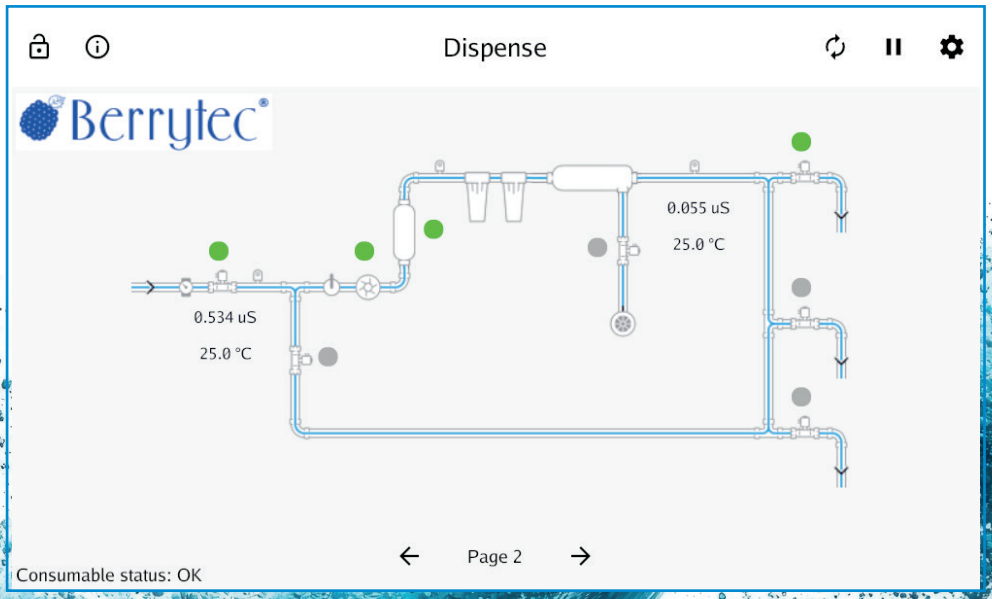
[2] Depending on disinfection and feed water quality; [3] depending on feed water; [4] colony forming units

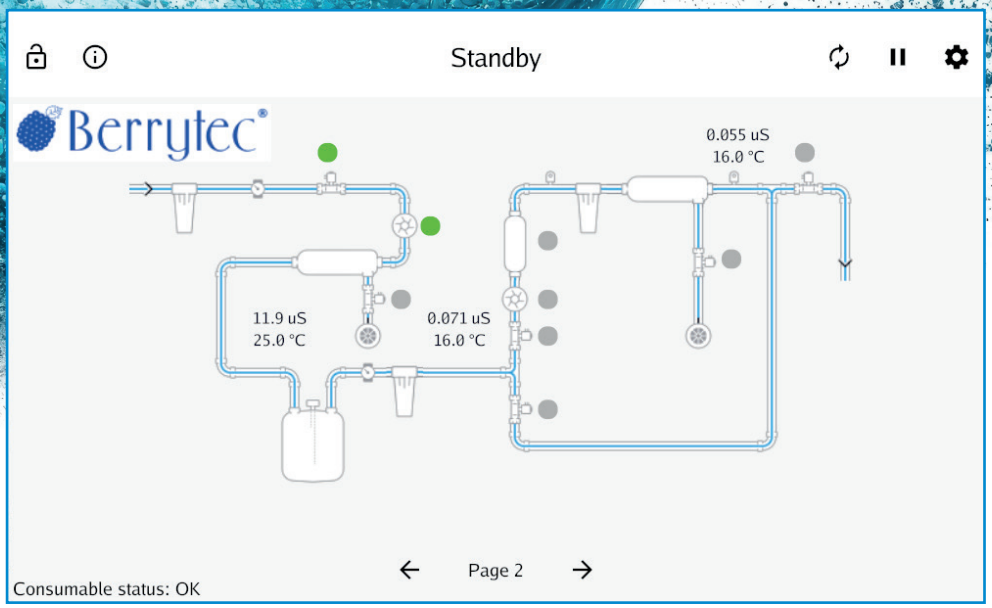
BERRYPURE MINI-UP SERIES

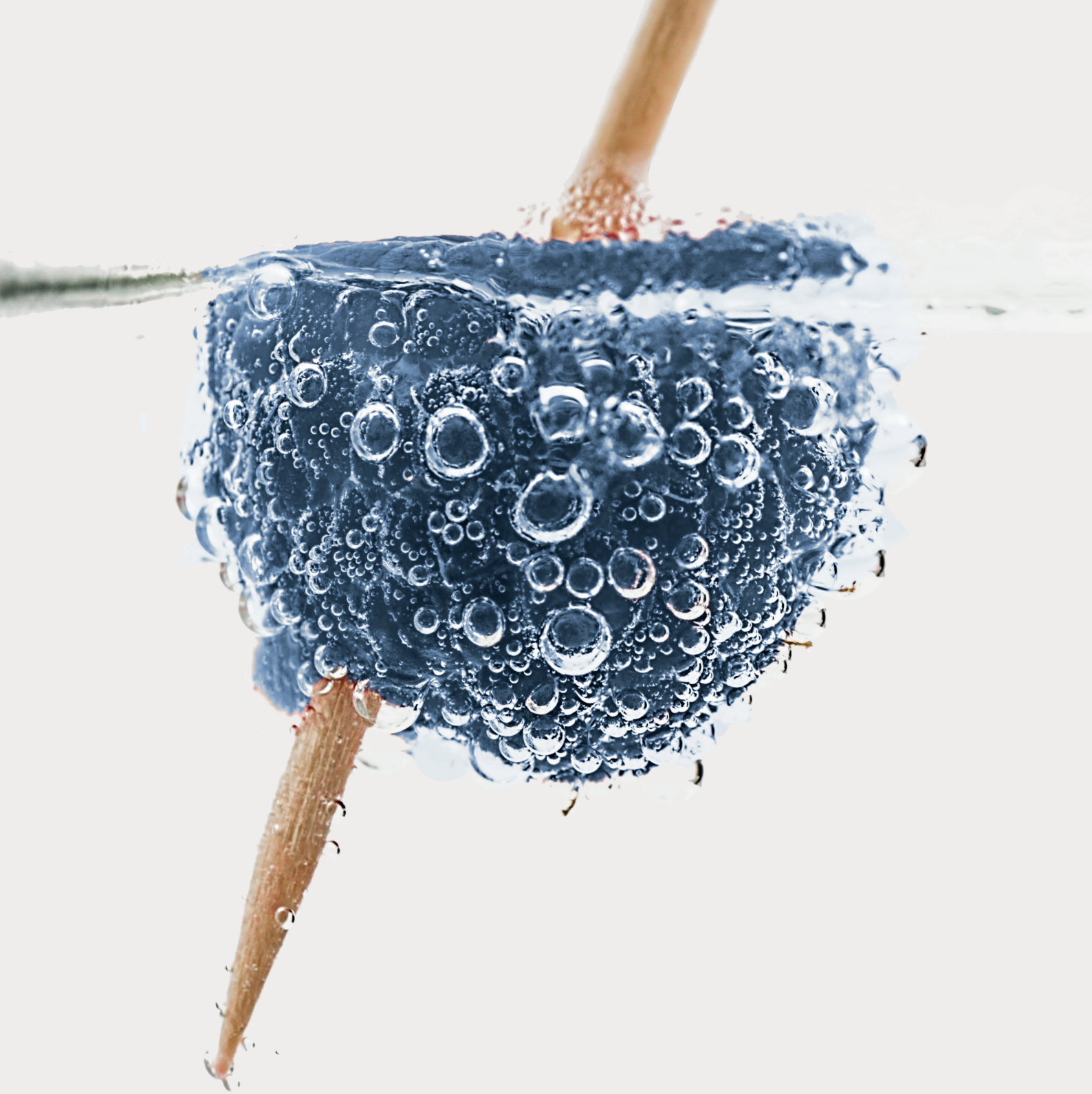
Models	UP+	UPUV+	UPUF+	UPUVUF+
Dimensions	D 500 mm x W 250 mm x H 430 mm			
Current consumption	230 VAC 50-60 Hz			
Order number DI feed	8002120	8002130	8002150	8002140
Order number tap water	8002020	8002030	8002050	8002040
UV lamp	No	Yes	No	Yes
Ultrafiltration module	No	No	Yes	Yes
Berrypure Mini-UP 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 DI feed	8002121	8002131	8002151	8002141
Order number tap water	8002021	8002031	8002051	8002041
UV lamp	No	Yes	No	Yes
Ultrafiltration module	No	No	Yes	Yes

Optional accessories for the Berrypure mini-UP+ series	
Precleaning DI	8002102 Precleaning DI for Berrypure Mini UP System
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 0.1µm	8002382 Recommended change every 3-6 months
UP-Easyfix (2x necessary)	8001394 Service life² (1 year)
UV replacement lamp	8002410 Service life² (max. 2 years) (For systems with online TOC 1 year)
UF replacement filter	8002422 Service life² (max. 3 years)
DI pre-cleaning (2x necessary)	8001392 Lifetime²
Combifilter AK/PP	8001398 Easyfix Combi

DISPENSER & FLOW CHART







Berrytec®

Berrytec GmbH
Schwablweg 15
85630 Harthausen
Germany

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