

Ultrapure Water System

HALIOS ID 6 | 12



HALIOS ID 6 | 12 lab water systems are designed for direct connection to tap water, combining ease of use and comfort with enhanced lab productivity.



The HALIOS ID 6 Lab Water Series features a modular design with direct tap water connectivity, offering high adaptability to meet diverse laboratory requirements.

Equipped with an integrated 10L tank and a production rate of 6L/h or 12L/h, it delivers reliable performance and flexibility.


Each system exceeds ASTM Type 1 and Type 2 standards, ensuring superior water quality.

The integrated pre-treatment cartridge enhances the durability of the RO membrane and purification cartridges, maintaining consistent ultrapure water quality for accurate and reproducible analytical results.

The compact design allows seamless integration into any lab environment.



Features

- ✓ Reliable ultrapure water quality - ASTM type 1⁺ and 2
- ✓ Integrated dispenser
 - ❖ detachable and ergonomically shaped
 - ❖ rotatable and vertically adjustable
- ✓ Simple and economical change of the consumables
- ✓ Pre-treatment cartridge for a direct connection to tap water
- ✓ Large and intuitive touchscreen
- ✓ Leak water detector
- ✓ Pressure reducer
- ✓ Data capture via USB
- ✓ Accurate, adjustable volume dispensing
- ✓ Dry-run protection
- ✓ Simple disinfection procedure
- ✓ Pressure and flow sensor
- ✓ Production rate monitoring
- ✓ Tank water conductivity and temperature measurement
- ✓ Plug and Use – All consumables and installation material are included
- ✓ Note on the replacement of all consumables (no obligation to replace)
- ✓ Complete recirculation ensures the highest microbial purity
- ✓ Warnings and notes in clear text
- ✓ Alarm history
- ✓ UV-unit (185 | 254nm) for the ultimate microbiological purity and TOC reduction
- ✓ 100% Made in Germany
- ✓  ECO Mode to extend the cartridge life by up to 20%



System configuration

- Wide-range power supply 80-264V / 50-60Hz
- Housing with an easily accessible service cover
- Compact production unit fits easily into various free spaces in the lab
- Exchange of consumables within seconds due to quick-connect couplings
- Integrated pressure reducer for different inlet pressures
- Flow meter for an accurate volume dispensing
- Pressure sensor for monitoring of the working pressure and as a dry-running protection
- Two low-noise and durable pressure and recirculation pumps for the complete internal recirculation of all wetted parts up to the final dispensing valve
- Integrated pre-treatment cartridge protects from impurities in the feedwater and protect the RO membrane as well as guarantees reproducible results of analysis, a high capacity and low operating costs
- RO membrane removes up to 99% of all impurities in the feed water
- Ultrapure water cartridge for the final removal of organics and remaining ions
- Up to five measuring cells for the exact measurement of the conductivity and temperature after each purification cartridge
- Dual wavelength UV disinfection for lowest TOC values
- Flush valve for the effective cleaning of all wetted parts as well as an adjustable quality flush during stand-by
- Dispenser with microfiltration for the sterile ultrapure water withdrawal at the point of use
- 10l pure water tank with conical bottom and pure water (type 2) outlet



Integrated dispenser

- Ergonomic design for a one-handed operation
- All dosing functions can be easily executed with the rotary encoder at the dispensing handle
- For an even greater range the HALIOS handle can be detached and reattached with a simple hand movement



User interface

- Large and intuitive touchscreen
- Stored dispensing reports with all information ensure an absolute traceability of the water withdrawals
- Individual adjustment for displaying the conductivity ($M\Omega cm$ or $\mu S/cm$)
- Multilevel conductivity and temperature monitoring for pure and ultrapure water, temperature compensated with stepless limit adjustments
- High-precision measuring with integrated reference resistors as well as deactivatable temperature compensation acc. to USP
- Leakage monitor with error message and automatic shut-off of the feed water supply
- Continuous surveillance of all relevant parameters and values incl. early reminders when a change of consumables is pending
- GLP-compliant data storage via USB
- ECO Mode to extend the cartridge life by up to 20%



Optional

- Flushed and integrated ultrafiltration module for the retention of pyrogens, endotoxins, proteins and nucleases (DNases and RNases)
- Real-time TOC monitor for the continuous TOC measurement of the organic compound acc. to USP
- External pure water tank in 50l with pressure outlet and dispensing gun for type 2 water (more sizes available on request)
- EDI module for residual desalination for a continuous quality improvement and lower running costs
- Potential-free contact for collective error signal
- Wall mounts for production unit, tank and dispenser
- UV tank disinfection
- Pressure outlet
- Qualification documents

Feed water requirements

Feed water quality	Potable tap water
Conductivity at 25°C	< 2000µS/cm
Total organic carbon (TOC)	< 1ppm
Inlet pressure*	1 – 6bar
Temperature	5 – 35°C

Additional pre-treatment units are available if the feed water is out of specs



Ultrapure water specifications (ASTM type 1)¹:

Resistivity (Conduct.) at 25°C ²	18.2MΩcm (0.055μS/cm)
Total Organic Carbon ³ (TOC)	≤ 2ppb (μg/l)
Particle content ⁴	< 1/ml
Bacteria	< 0,01 CFU/ml ⁴ < 0,005 CFU/ml ⁵
Pyrogens (endotoxins) ⁵	< 0,001 EU/ml
RNases ⁵	< 0,004ng/ml
DNases ⁵	< 0,024pg/μl
Flow rate	Up to 2l/min

Pure water specifications in the tank (ASTM type 2)

Resistivity (Conduct.) at 25°C	> 10MΩcm (<0,1μS/cm)
TOC	≤ 30ppb (μg/l)
Performance HALIOS ID 6	6l/h at 10°C 8l/h at 20°C
Performance HALIOS ID 12	12l/h at 10°C 15l/h at 20°C

¹ The actual values may vary depending on the nature and concentration of the contaminants in the feed water

² Conductivity/resistivity can also be displayed non-temperature compensated as required by USP

³ In the appropriate operating conditions

⁴ With sterile filter capsule at the POU

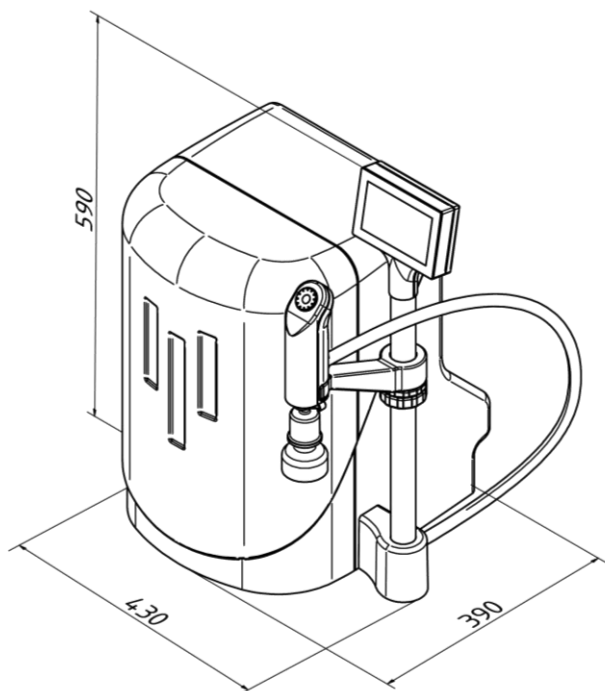
⁵ With option – ultrafiltration module

Technical data

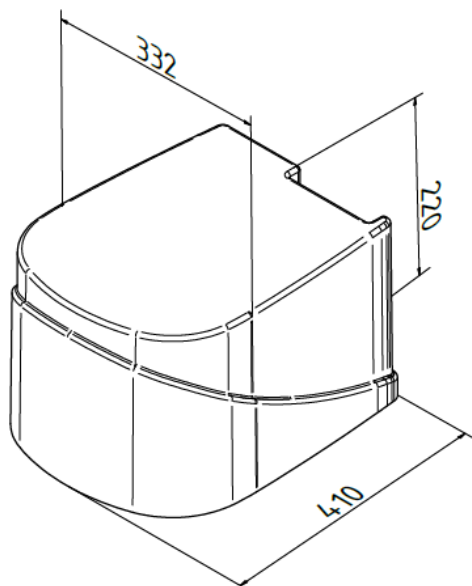
Ambient temperature	+2 - 35°C
Supply voltage	90-240V / 50-60Hz
Connected load	120W
Connection size	R ¾"
Weight	22kg



Dimensions Production Unit



Dimensions 10l Tank



Dimensions 50l Tank (optional)

