# **HALIOS ID 40**







HALIOS ID 40 lab water systems are designed for direct connection to tap water, combining high-performance, ease of use and comfort with enhanced lab productivity.



The HALIOS 40 Lab Water Series features a modular design and direct connection to tap water, offering versatility and adaptability for diverse laboratory needs.

Equipped with an integrated 10L tank and a production rate of 40L/h, it delivers reliable performance tailored to specific requirements.

Each system exceeds ASTM Type 1 and 2 standards, ensuring exceptional water purity.

The compact production unit integrates seamlessly into any lab environment, with operations streamlined through a flexile integrated dispenser.





#### **Features**

- ✓ Reliable ultrapure water quality ASTM type 1<sup>+</sup> and 2
- ✓ Interated dispenser
  - detachable and ergonomically shaped
  - rotatable and vertically adjustable
- ✓ Simple and economical change of the consumables
- ✓ 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 from the tank until the point of use ensures the highest microbial purity
- ✓ Warnings and notes in clear text
- ✓ UV-unit (185|254nm) for the ultimate microbiological purity and TOC reduction
- ✓ 10" Prefilter for a direct connection to tap water
- Alarm history
- √ 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
- 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
- Dual wavelength UV disinfection for lowest TOC values
- Up to five measuring cells for the exact measurement of the conductivity and temperature after each purification cartridge
- Flush valve for the effective cleaning of all wetted parts as well as an adjustable quality flush during stand-by
- Integrated dispenser with microfiltration for the sterile ultrapure water withdrawal at the point of use
- Pure water tank with sloped bottom and pure water (type 2) outlet
- ECO Mode extends 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)
- Pure water tank 50l (more tank sizes are 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 and tank
- UV tank disinfection
- Pressure outlet
- Qualification documents





#### 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%

## Tabletop dispenser

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



#### Pure water tank 50l

- Made of PE for a for a minimum release of extractables
- A smooth inner surface prevents biofilm formation
- A sterile overflow and an advanced vent filter with CO2 Adsorber protecting your stored water against airborne contaminants
- Sloped bottom and circulation ensure the highest microbial purity
- Pressurized outlet (2I/min)
- Dispensing gun for type 2 water





## 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 pretreatment units are available if the feed water is out of specs

# Ultrapure water specifications (ASTM type 1)<sup>1</sup>:

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

# Pure water specifications in the tank (ASTM type 2)

Resisitivity (Conduct.) at 25°C	$> 10 M\Omega cm (<0,1 \mu S/cm)$
TOC	≤ 30ppb (µg/l)
Performance	40I/h at 10°C 52I/h at 20°C

<sup>&</sup>lt;sup>1</sup> The actual values may vary depending on the nature and concentration of the contaminants in the feed water

### Technical data

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



<sup>&</sup>lt;sup>2</sup> Conductivity/resistivity can also be displayed non-temperature compensated as required by USP

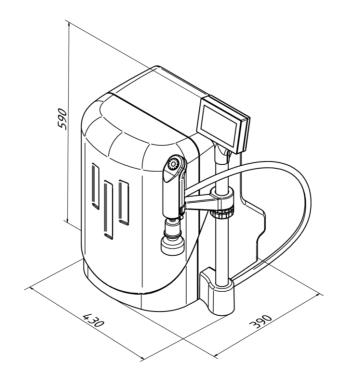
<sup>&</sup>lt;sup>3</sup> In the appropriate operating conditions

<sup>&</sup>lt;sup>4</sup> With sterile filter capsule at the POU

<sup>&</sup>lt;sup>5</sup> With option – ultrafiltration module



## **Dimensions HALIOS ID 40**



## **Dimensions 50l Tank**

