



# HALIOS

Lab Water Systems

TAKE THE FIRST DROP

# LAB WATER SOLUTIONS EXACTLY FOR YOUR NEEDS

VERSATILE · USER-FRIENDLY · STATE-OF-THE-ART



**HALIOS**  
Ultrapure System Series

# IMPROVE YOUR LAB PRODUCTIVITY

## HALIOS FEATURES AT A GLANCE



### Innovative User Interface

Large and Intuitive Touch Screen

Complete Traceability

Smart Monitoring



### External Tabletop Dispenser

Ergonomic Design

Optimized Lab Space

Maximum Flexibility



### Compact Production Unit

Reliable Operation

Superior Ultrapure Water

Minimum Operating Costs



### Modern 10l Storage Tank

\*only for HALIOS 6 | 12

Protection of Pure Water

Clever Design

Quality Recirculation

# BE ONE STEP AHEAD WITH HALIOS

## OVERVIEW: HERE'S WHAT YOU NEED TO KNOW



**W**ater requirements differ widely in all segments of laboratory work. We at NEPTec have developed the new **HALIOS ultrapure system series** — a modular-designed system which provides flexibility to adapt to your specific needs. Each system meets and exceeds the Type I standard. HALIOS systems make your work as efficient as possible and maximise your lab productivity.



**T**ype I from pre-treated water comprises of an innovative graphical user interface, external tabletop dispenser and a compact production unit. The standard HALIOS is the most cost-effective system since it delivers ultrapure water for a wide range of critical applications. It can also be upgraded with a UV lamp, an ultrafilter and a TOC monitor which prevents microbiological growth, permits TOC values <2 ppb and removes reliably pyrogens and nucleases.

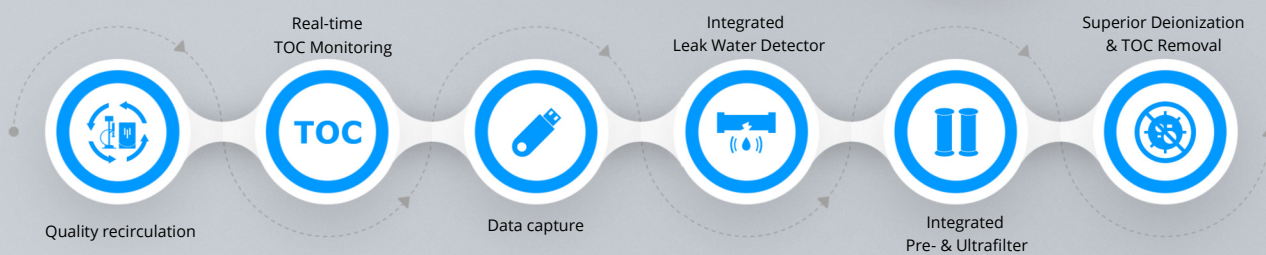


**T**ype I and II from tap water comprises similarly of a graphical user interface, external tabletop dispenser and a compact production unit. HALIOS 6 produces 6 litres of pure water per hour while HALIOS 12 produces 12 L/h. It also offers a storage tank which can be placed at the bottom of the production unit and can store up to 10 litres of water. It has modern design features and a circulation which prevent stagnation and bacterial contamination.





## ALL ENCOMPASSING FEATURES



# HALIOS TYPE I

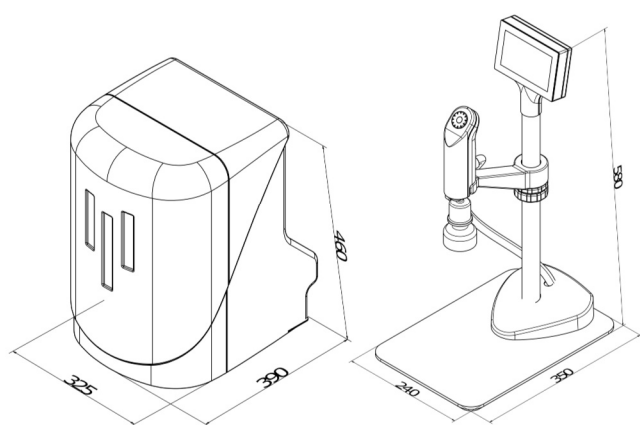
## SPECIFICATIONS

### TECHNICAL APPENDIX: HALIOS

#### Feed water requirements:

Feed water quality	Pretreated water using EDI, DI, RO or distilled water
Conductivity at 25 °C	< 100 µS/cm
Total Organic Carbon (TOC)	< 50 ppb
Inlet pressure *	Max 6 bar
Temperature	2 - 35 °C

\* For pressure between 0 and 0.2 bar the system will operate, but product flow rate may be lower



#### Ultrapure, Type I Water Specifications<sup>1</sup>:

Resistivity (conductivity) at 25 °C <sup>2</sup>	18.2 MΩ·cm (0.055 µS/cm)
Total Organic Carbon (TOC) <sup>3</sup>	≤ 2 ppb (µg/L) ≤ 10 ppb (without UV)
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>	< 0.004 ng/mL
DNases <sup>5</sup>	< 0.024 pg/µL
Flow rate	up to 2 L/min

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

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

<sup>3</sup> In the appropriate operating conditions

<sup>4</sup> With sterile filter capsule

<sup>5</sup> With ultrafilter

#### Technical data:

Ambient temperature	2 - 35°C
Supply voltage	85-260V / 50-60Hz
Connected load	120W
Connection size	3/4"

### ORDERING INFORMATION: HALIOS

#### Water System

Catalogue number	Description
10000100	Ultrapure water system HALIOS



#### Accessories / Options

Catalogue number	Description
10000101	Option - UV lamp 185 254 nm
10000102	Option - Ultrafiltration module
10000103	Option - TOC monitor
10000104	Additional remote dispenser HALIOS
10000105	Wall mounting for production unit HALIOS
10000301	Qualification documents HALIOS
10000340	Option - XXL Dispenser (height: +15cm)
10000341	Option - 4m connection

#### Consumables

Catalogue number	Description
10000106	Pure water cartridge HALIOS
10000107	Ultrapure water cartridge HALIOS
10000108	Replacement UV lamp 185 254 nm
10000109	Sterile filter capsule 0.2µm
10000110	Replacement ultrafilter

# HALIOS TYPE I and II

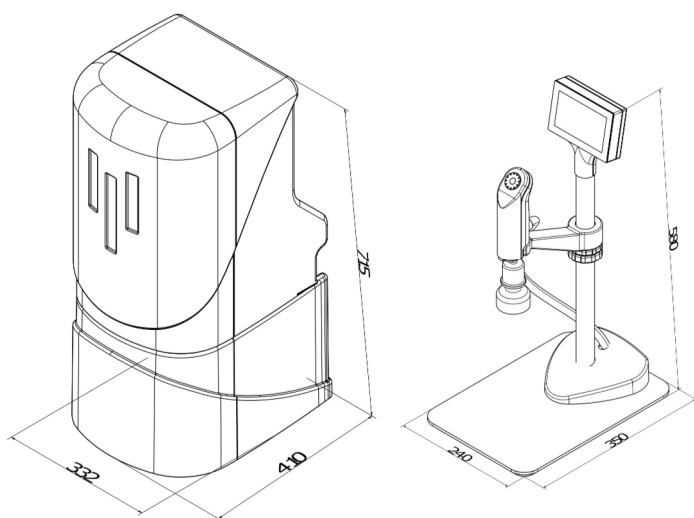
## SPECIFICATIONS

### TECHNICAL APPENDIX: HALIOS 6|12

#### Feed water requirements:

Feed water quality	Potable tap water
Conductivity at 25 °C	< 2000 µS/cm
Total Organic Carbon (TOC)	< 1 ppm
Inlet pressure	1 - 6 bar
Temperature	2 - 35 °C

Pre-treatments units are available if the feed water is out of specs



#### Ultrapure, Type I Water Specifications<sup>1</sup>:

Resistivity (conductivity) at 25 °C <sup>2</sup>	18.2 MΩ•cm (0.055 µS/cm)
Total Organic Carbon (TOC)	≤ 2 ppb (µg/L) ≤ 10 ppb (without UV)
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>	< 0.004 ng/mL
DNases <sup>5</sup>	< 0.024 pg/µL
Flow rate	up to 2 L/min

#### Pure, Type II Water Specifications:

Resistivity (conductivity) at 25 °C <sup>2</sup>	>10 MΩ•cm (<0.1 µS/cm)
Total Organic Carbon (TOC)	≤ 30 ppb
Production flow rate	6 L/h or 12 L/h

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

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

<sup>3</sup> In the appropriate operating conditions

<sup>4</sup> With sterile filter capsule

<sup>5</sup> With ultrafilter

#### Technical data:

Ambient temperature	2 - 35°C
Supply voltage	85-260V / 50-60Hz
Connected load	120W
Connection size	3/4"

### ORDERING INFORMATION: HALIOS 6|12

#### Water System

Catalogue number	Description
10000111	Ultrapure water system HALIOS 6
10000112	Ultrapure water system HALIOS 12

#### Acessories / Options

Catalogue number	Description
10000101	Option - UV lamp 185 254 nm
10000102	Option - Ultrafiltration module
10000103	Option - TOC monitor
10000104	Additional remote dispenser HALIOS
10000105	Wall mounting for production unit HALIOS
10000302	Qualification documents HALIOS 6 12
10000340	Option - XXL Dispenser (height: +15cm)
10000341	Option - 4m connection

#### Consumables

Catalogue number	Description
10000113	HALIOS RO-GUARD pretreatment set
10000114	RO membrane 6 L/h
10000115	RO membrane 12 L/h
10000107	HALIOS UPW 182 polishing cartridge
10000110	Replacement ultrafilter
10000108	Replacement UV lamp 185 254 nm
10000109	Sterile filter capsule 0.2µm
10000116	Sterile vent filter 0.2µm





CONNECT WITH US THROUGH LAB WATER



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LAB WATER SYSTEMS



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