# Ultrapure Water System TRITON 6 (Type 1 + 3)







COMPACTNESS REDEFINED: Experience unmatched user-friendliness with one of the smallest systems on the market!



The TRITON 6 lab water series is modular designed and can be connected directly to tap water.

With a 50 litre tank and a production rate of 6 litres per hour, it offers great flexibility for your specific needs.

Each system meets and exceeds ASTM Type 1 and 3 standards. The combination of state-of-the-art treatment technologies ensures consistently ideal ultrapure water quality for reproducible analytical results.

The compact design of the TRITON makes it easy to integrate into almost any laboratory environment.





### **Features**

- Reliable ultrapure water quality ASTM type 1+ and 3
- ✓ Simple and economical change of the consumables
- Large and intuitive touchscreen
- ✓ Leak water detector
- Measuring and monitoring of the permeate flow
- Pressure reducer
- ✓ Data capture via USB
- Dry-run protection
- Simple disinfection procedure
- ✓ Pressure and flow sensor
- √ 50l tank (alternative tanks on request)
- √ Tank water conductivity and temperature measurement
- ✓ Plug and Use All consumables and installation material included
- ✓ Note on the replacement of all consumables (no obligation to replace)
- √ Warnings and notes in clear text
- ✓ Alarm history
- √ 100% Made in Germany





## 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
- Pressure sensor for monitoring of the working pressure and as a dry-running protection
- Low-noise and durable recirculation pump for the complete internal recirculation of all wetted parts up to the final dispensing valve
- Ultrapure water cartridge for the final removal of organics and remaining ions
- Up to three 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
- Microfiltration for the sterile ultrapure water withdrawal at the point of use

### **Optional**

- UV-unit (185 | 254nm) for the ultimate microbiological purity and TOC reduction
- Flushed and integrated ultrafiltration module for the retention of pyrogens, endotoxins, proteins, and nucleases (DNases and RNases)
- Potential-free contact for collective error signal
- Wall mount
- Qualification documents



Item no.: 10000574

Lab water System TRITON 6

www.neptec.de/TRITON-6-12



### 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

### 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 3 water







# Feed water requirements

Feed water quality	Potable tap water
Conductivity at 25°C	< 1000µS/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:

Resisitivity (Conduct.) at 25°C <sup>2</sup>	18.2MΩcm (0.055μS/cm)
Total Organic Carbon <sup>3</sup> (TOC)	≤ 2ppb (μg/l) ≤ 10ppb (w/o option – UV lamp)
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 ⁵	< 0,024pg/μl
Flow rate	Up to 2I/min

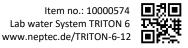
# Pure water specifications in the tank (Type 3)

Retention rate	> 98% ions, germs and bacteria
Performance	6l/h

<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"
Weight (system):	15kg



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

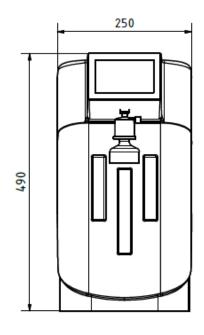
<sup>&</sup>lt;sup>3</sup> In the appropriate operating conditions

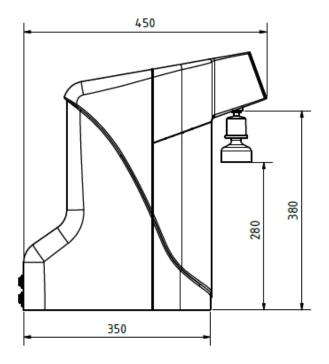
<sup>&</sup>lt;sup>4</sup> With sterile filter capsule at the POU

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



# **Dimensions Production Unit**





# **Dimensions 50l Tank**

