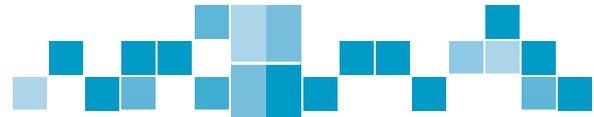




Astacus²

PRODUCT INFORMATION

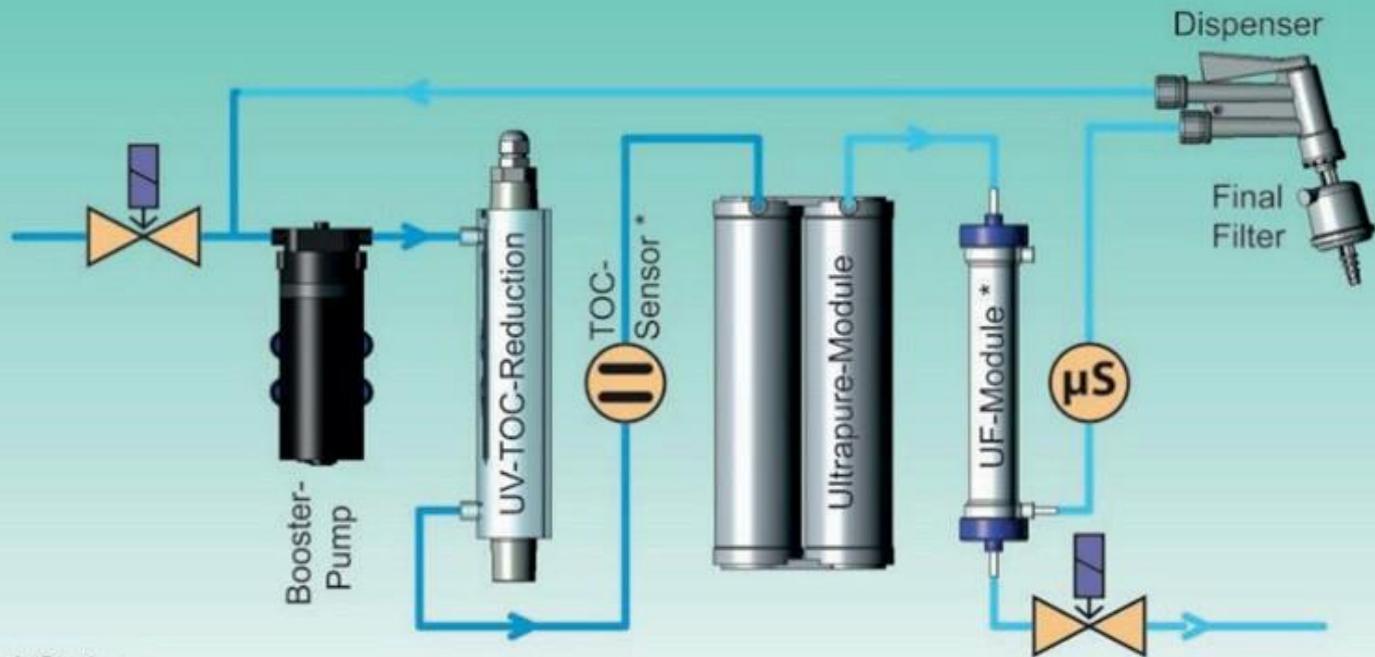


The **Astacus²** system is designed for the production of ASTM Type I grade water (0,055 µS/cm) out of permeate from a reverse osmosis or deionised water. The ultrapure water is produced with a combination of optimized mixed bed cartridges and will be dispensed with the flexible and lockable dispenser. If water is not used, it circulates inside the **Astacus²** to permanently deliver ultrapure water in best quality.

Currently recorded data and warning messages will be displayed on the touch screen monitor. The user has all necessary data at a glance with this display. The software furthermore supports the user with a self-diagnosis module which reduces service time and costs.

All components of the **Astacus²** are assembled in a specially designed plastic housing. The housing can be opened easily on the side for access to the cartridges and UV lamp or UF module.

Astacus² is available in different versions (Reagent, Analytical & Life Science) to meet the specific requirements of ultra pure water for different applications.



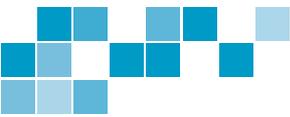
* Option

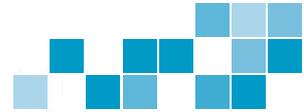
TECHNICAL SPECIFICATIONS

feed watertype	pretreated water
ultra pure water quality	ASTM TypeI
resistivity	18.2M Ω m \times cm
TOC	<10 ppb (Reagent) < 5 ppb (LifeScience) < 1 ppb (Analytical)
dispensing flow rate	2 l/min, 1.5 l/min **
bacteria	<1 cfu/ml *
particulate	>0.2 μ m less than 1 particulate/ml
pyrogen (endotoxins)	<0.001 EU/ml **
RNAase	<1 pg/ml **
DNase	<5 pg/ml **

* with Endfilter 0.2 μ m

** with LifeScience model





Astacus ² model	UV-reactor	UF-module	TOC-monitoring	Cat.-No.
Reagent	-	-	-	110-0089
Analytical	x	-	-	110-0090
LifeScience	x	x	-	110-0091
Analytical TI	x	-	x	110-0092
LifeScience TI	x	x	x	110-0093

OPTIONS

memTap

Our new memTap allows the volumetric controlled dispensing of water with an additional. The arm can be moved horizontally and vertically. Preset of tap-volume is in 0.1 l steps from 0.1 to 99 l. This system prevents overflow of containers and allows to tap water without supervising. The 3.5" display with touch screen offers you all relevant data at a glance.

Upgrade for Trace Analysis

To detect traces of substances in analytics, the water quality has to be of highest purity. Therefore all components are made of unfilled material. Tubing material is PTFE for minimal adhesion. Dead spaces are avoided and the recirculation pump is made of PEEK and stainless steel. The material of the tap valve is PVDF.

TOC monitoring

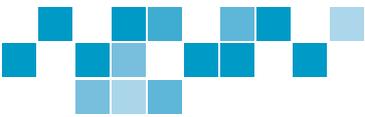
The TOC monitoring during production and intermittent measurements during non-use periods allows to check the organics in water continuously. The TOC value is measured between 1 and 999 ppb and can be shown in the display to monitor organic impurities.

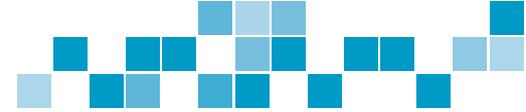
Bench integrated (BI)

To save valuable benchtop space all **Astacus²** models can be ordered as BI version. The system will be installed underneath the workbench and only the display and the dispenser are visible mounted on the wall.

µS-Control

The µS-Control checks the conductivity of feed water to protect the cartridges against feed water of poor quality. If conductivity of the feed water is too high this water will be rejected and cannot influence the quality of the ultrapure water or harm the cartridge.



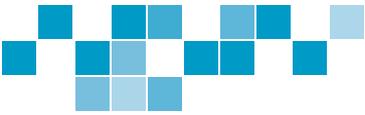
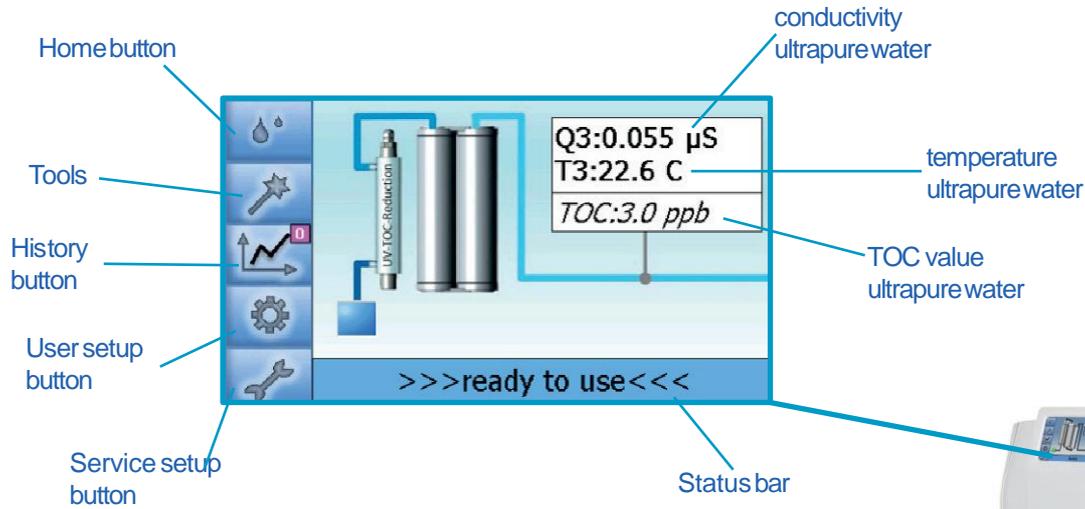


FEED WATER REQUIREMENTS

pressure	bar	0 ... 1	
feed water conductivity	$\mu\text{S/cm}$	<10	
free chlorine	mg/l	<0.1	
CO ₂	mg/l	<15	concentration total <20 mg/l
silica	mg/l	<10	
Silt Density Index(SDI)		<3	
iron	mg/l	<0.1	
manganese	mg/l	<0.05	
pH		3 ... 9	
TOC	ppb	<50	
temperature	°C	5 ... 25	



DISPLAY

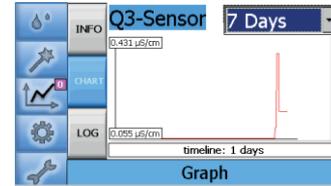


SOFTWARE

The software allows the user to see all information, use maintenance tools and to track back historic values.



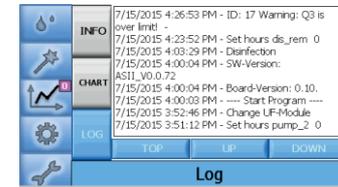
Helping tools to maintain system



Trackable values up to 1 year



Current status - main screen



Log files

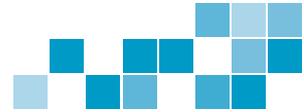


Warnings



Security passwords



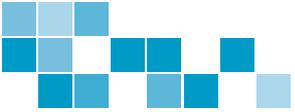


CONSUMABLES

Description	Cat.-No.
final filter, capsule, 0.2µm	190-0013
polisher module MemPak LS (organic applications)	190-0087
polisher module MemPak AL (anorganic applications)	190-0088
UV-lamp	921-0138
ultrafiltration module	190-0052
disinfection tablets	290-0227

DIMENSIONS

Measurement	297 x340 x535 mm
Weight	16 - 20 kg
Power supply	110 - 230V



WATER
PURIFIER

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