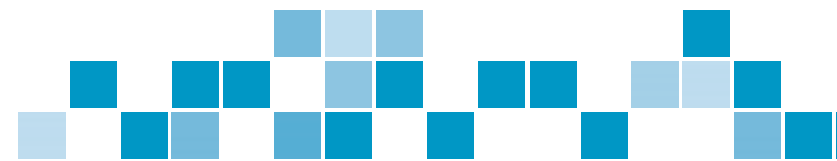




Aquinity² E35/70

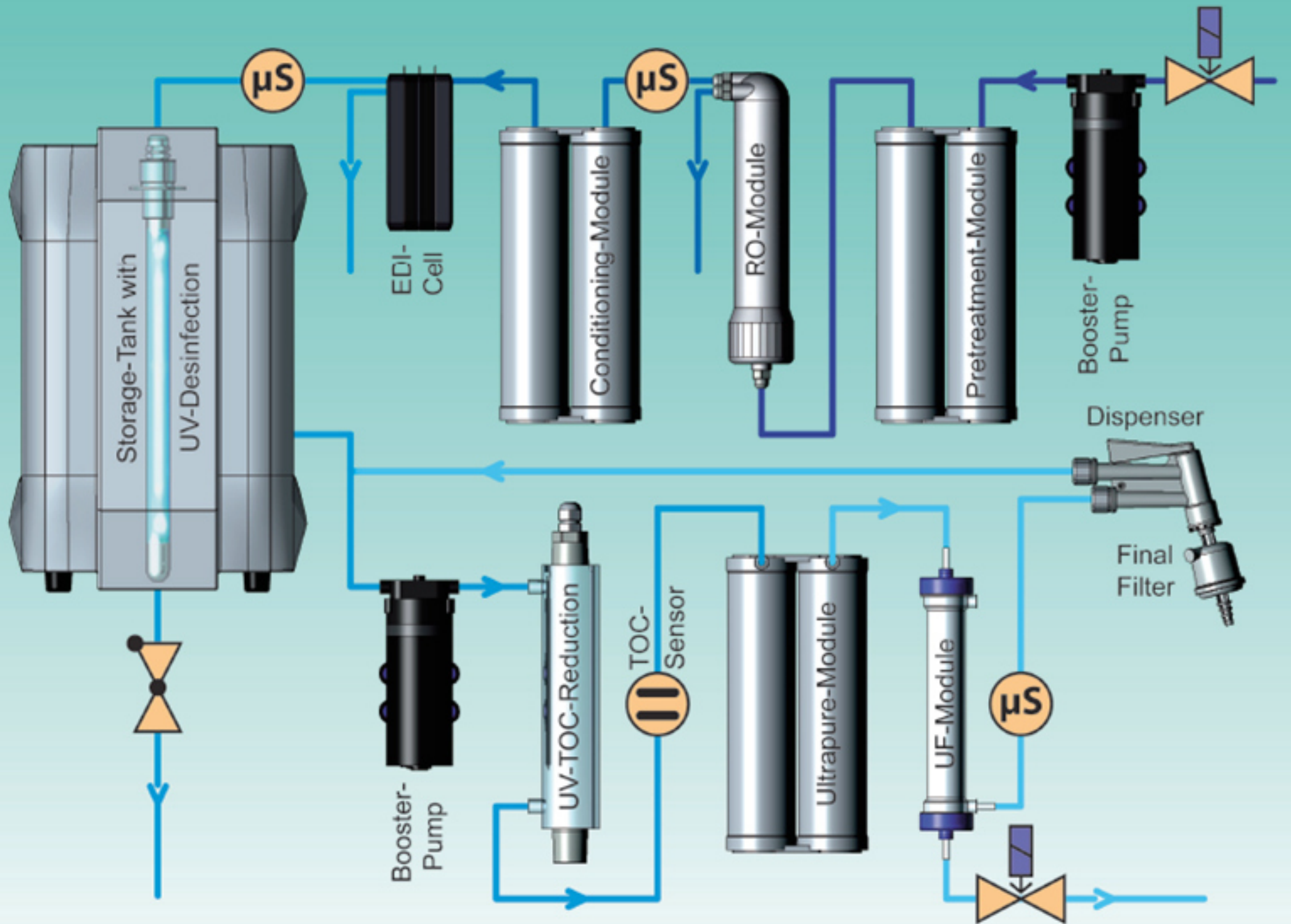
PRODUCT INFORMATION



The new ultrapure water systems Aquinity² E35 and E70 provide you with reliable and compact systems to produce both ASTM Type I and Type II grade water. The systems are fed directly with tap water.

Aquinity² E models are equipped with an electro deionization (EDI) cell. The water therefore has a very high quality ($< 0.1 \mu\text{S}/\text{cm}$, TOC $< 30 \text{ ppb}$). The 35l or 70l storage reservoirs are filled with ASTM Type II grade water at a production rate of 10l/h (optionally 20 l/h). The pure water can be dispensed straight from this reservoir.

In the next step, ultra pure ASTM Type I water ($< 0.055 \mu\text{S}/\text{cm}$, TOC $< 1 \text{ ppb}$) is produced with a combination of optimized cartridges.



TECHNICAL SPECIFICATIONS

feed water type	potable tap water
ultra pure water quality	ASTM Type I
resistivity	18.2 MOhm x cm***
TOC	< 10 ppb (Reagent) < 5 ppb (LifeScience) < 1 ppb (Analytical)
dispensing flow rate	up to 2 l/min
bacteria	< 1 cfu/ml *
particulate	> 0.2 µm less than 1 particulate/ml
pyrogen (endotoxins)	< 0.001 EU/ml
RNAase	< 1 pg/ml **
DNase	< 5 pg/ml **
pure water quality	ASTM Type II
conductivity	< 0.1 µS/cm***
TOC	< 30 ppb
production rate	10 l/h, optionally 20 l/h
particulate	> 0.2 µm less than 1 particulate/ml

* with Endfilter 0.2 µm

** with LifeScience model

*** with cell constant 0,01 cm⁻¹





Touch Screen Display

ASTM Type I Dispenser

35 l or 70 l reservoir tank.
The tank is made out of
4 mm polyethylene (PE)

ASTM Type II Dispenser

Aquinity ² E model	UV-reactor	UF-module	TOC-monitoring	Cat.-No. (35 l reservoir)	Cat.-No. (70 l reservoir)
Reagent	-	-	-	114-0053	114-0063
Analytical	x	-	-	114-1154	114-0064
LifeScience	x	x	-	114-0055	114-0065
Analytical TI	x	-	x	114-0058	114-0068
LifeScience TI	x	x	x	114-0059	114-0069

OPTIONS

TOC monitoring

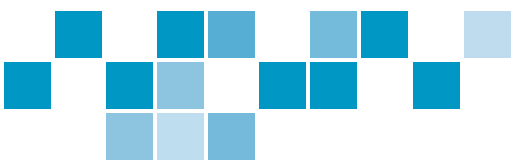
The TOC monitoring during production and intermittent measurements during non-use periods allow to check the organics in water. The TOC value is measured between 1 and 999 ppb and can be shown in the display to monitor organic impurities.

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.

memTap

Our new memTap allows the volumetric controlled dispensing of water with an additional device. 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 supervision. The 3.5" display with touch screen offers you all relevant data at a glance.





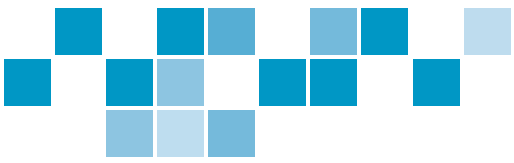
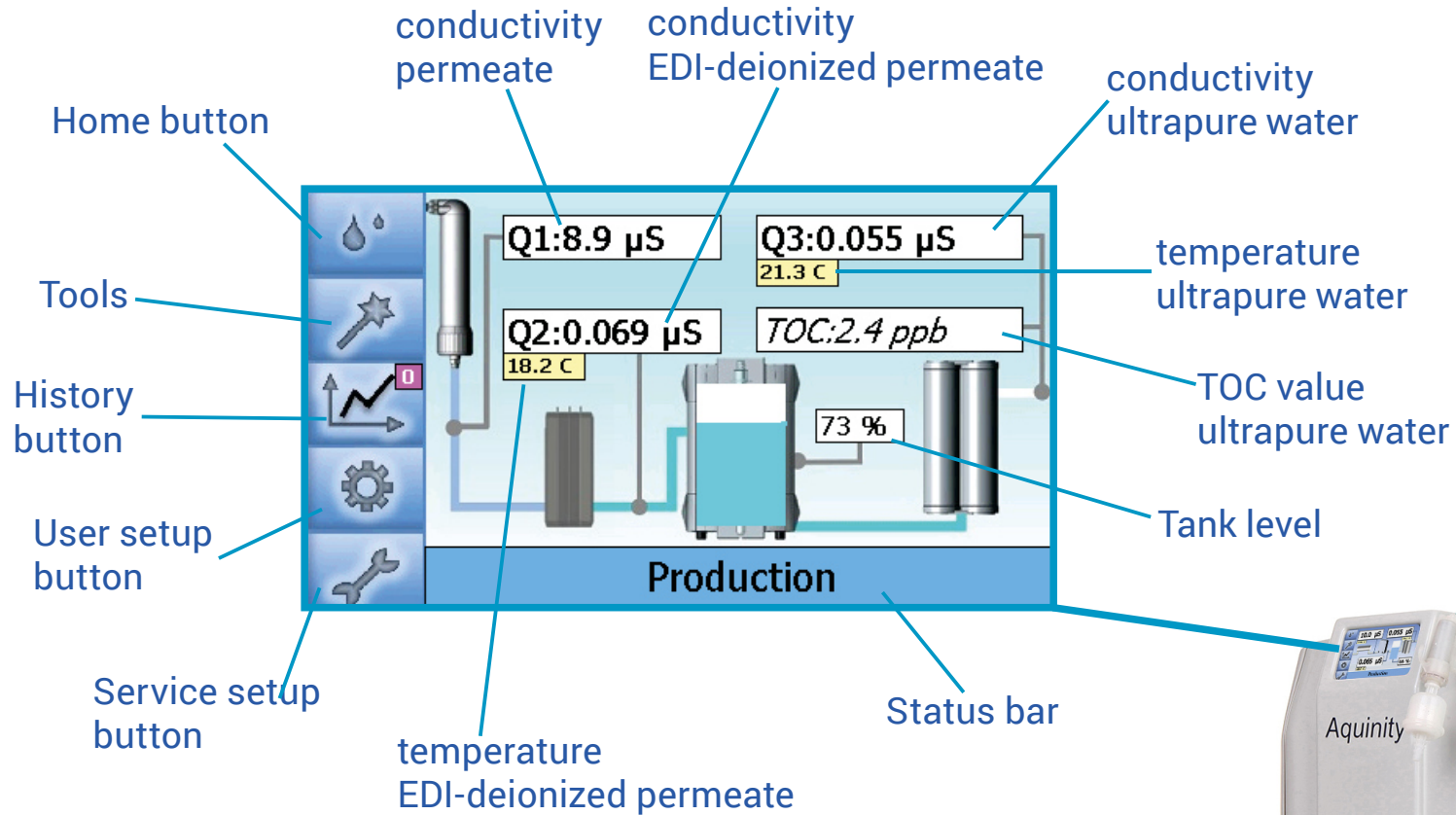
Feed water requirements

pressure	bar	1.5 ... 6	
max. flow	l/h	80	
feed water conductivity	$\mu\text{S/cm}$	< 1,400	
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	
temperature	$^{\circ}\text{C}$	5 ... 25	

All given flow rates are based on feed water temperature of 10°C (50°F). The RO permeate flow will change approx. 2% for each °C (decrease for lower values, increase for higher values).



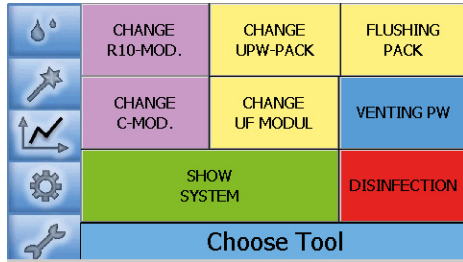
DISPLAY



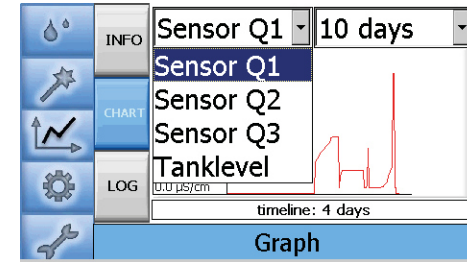


SOFTWARE

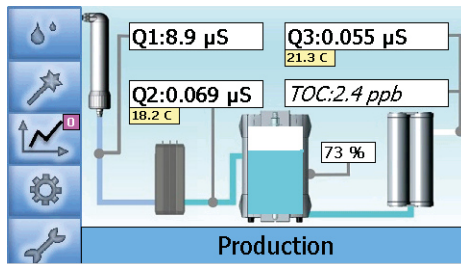
The software allows the user to see all information, use maintenance tools and to track back historic values.



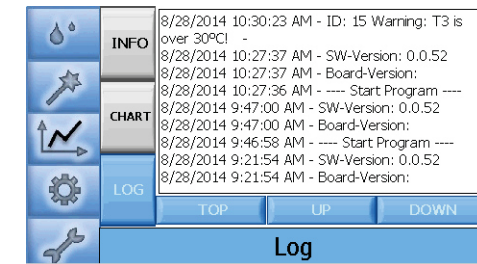
Helping tools to maintain system



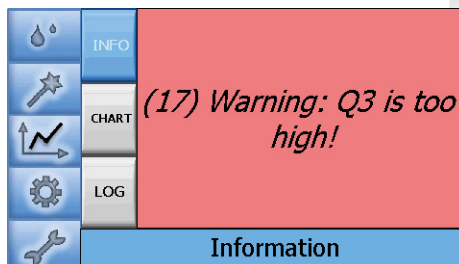
Trackable values up to 1 year



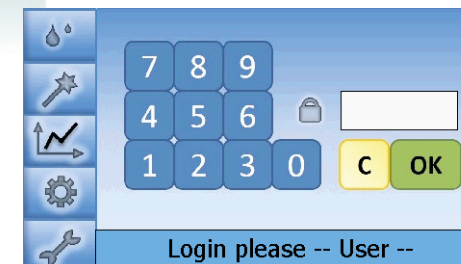
Current status - main screen



Log files

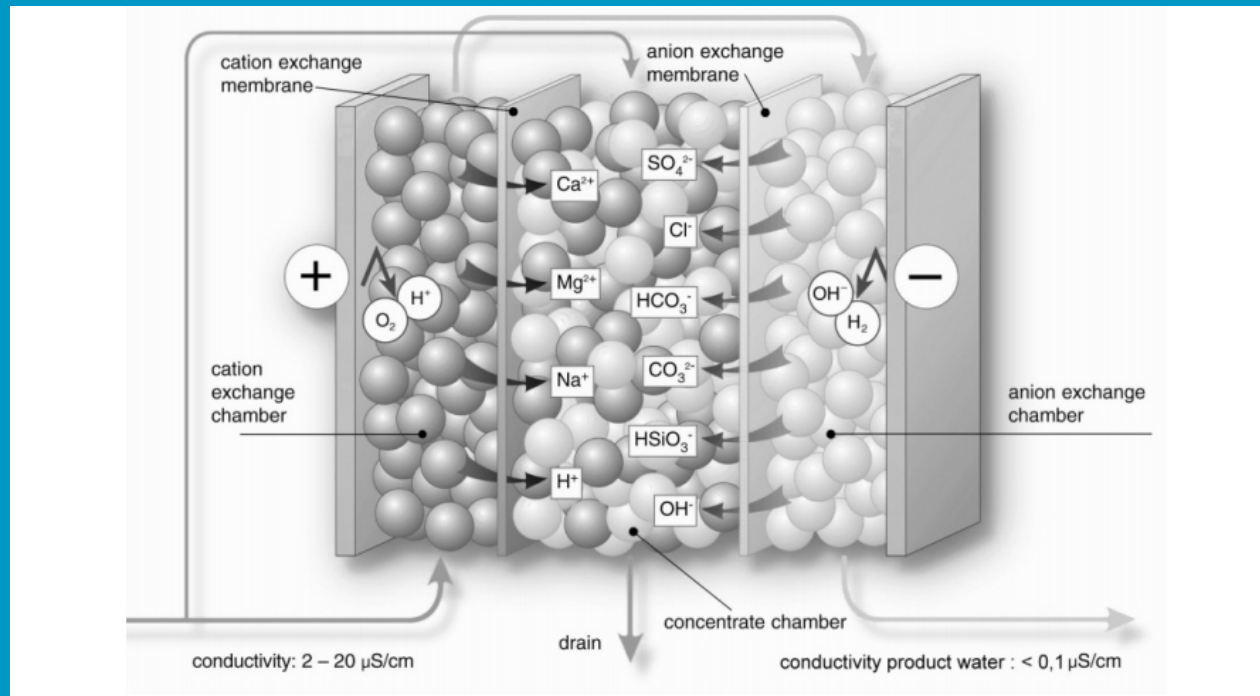


Warnings



Security password

ELECTRODEIONIZATION (EDI CELL)



Following a reverse osmosis step, the conductivity will be decreased further by an electro-chemical process within the EDI cell. The resin is self regenerating. The conductivity value of the product water will be lower than $0.1 \mu S/cm$.

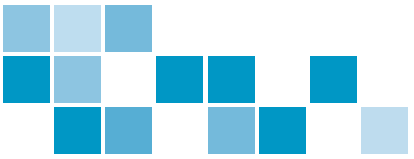


CONSUMABLES

Description	Cat.-No.
final filter, capsule, 0.2 µm	190-0013
tank vent filter	190-0085
pretreatment module ProPak R10	290-0065
conditioning module	290-0218
polisher module MemPak LS (organic applications)	190-0087
polisher module MemPak AL (anorganic applications)	190-0088
submersible UV-lamp	921-0483
UV-lamp	921-0138
ultrafiltration module	190-0052
disinfection tablets	290-0227

DIMENSIONS

Measurement	504 x 680 x 535 mm
Weight	16 - 20 kg
Power supply	110 - 230 V



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