

Aquinity² E35/70

Produces Pure Water & Ultra Pure Water



WATER
PURIFIER

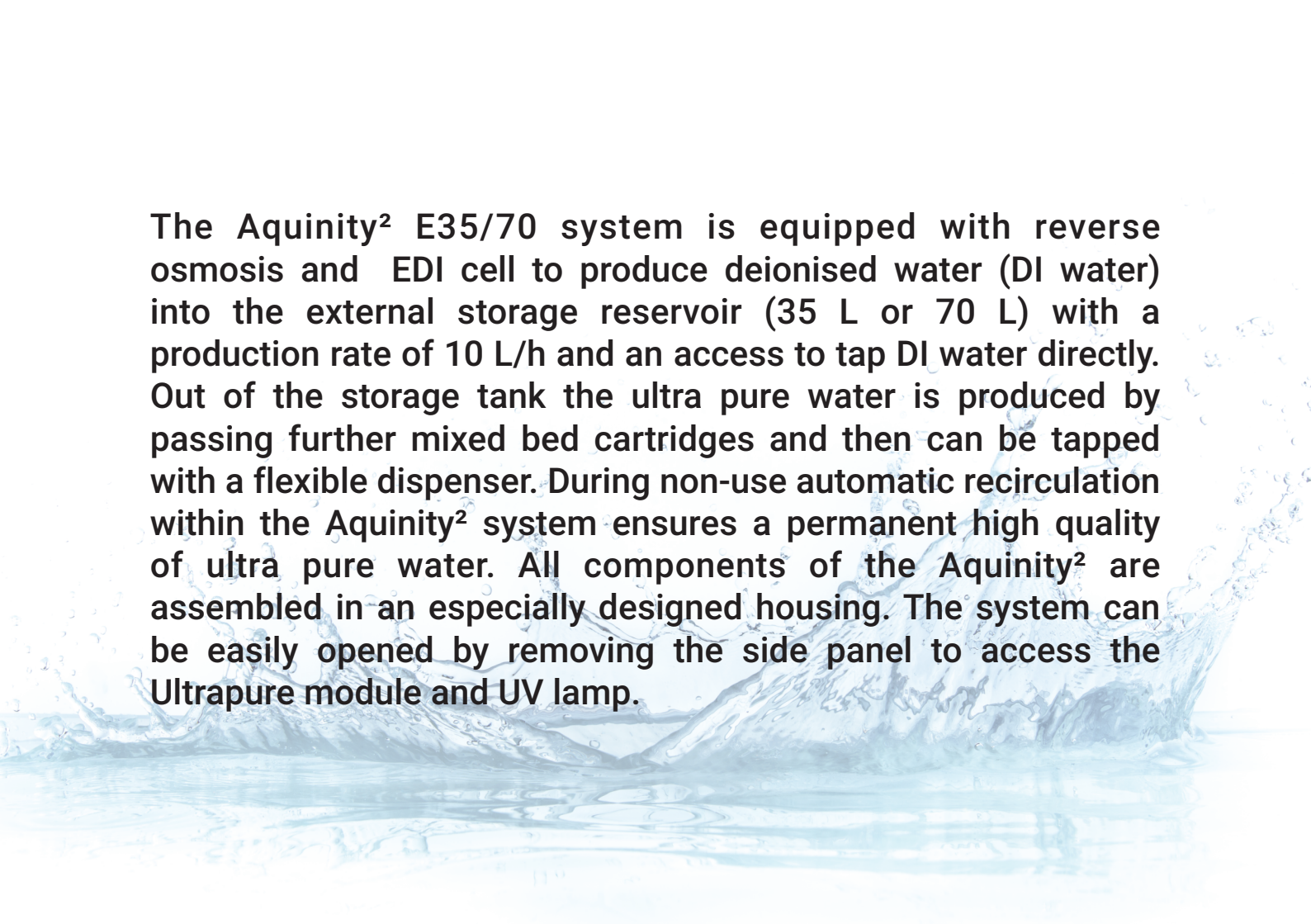




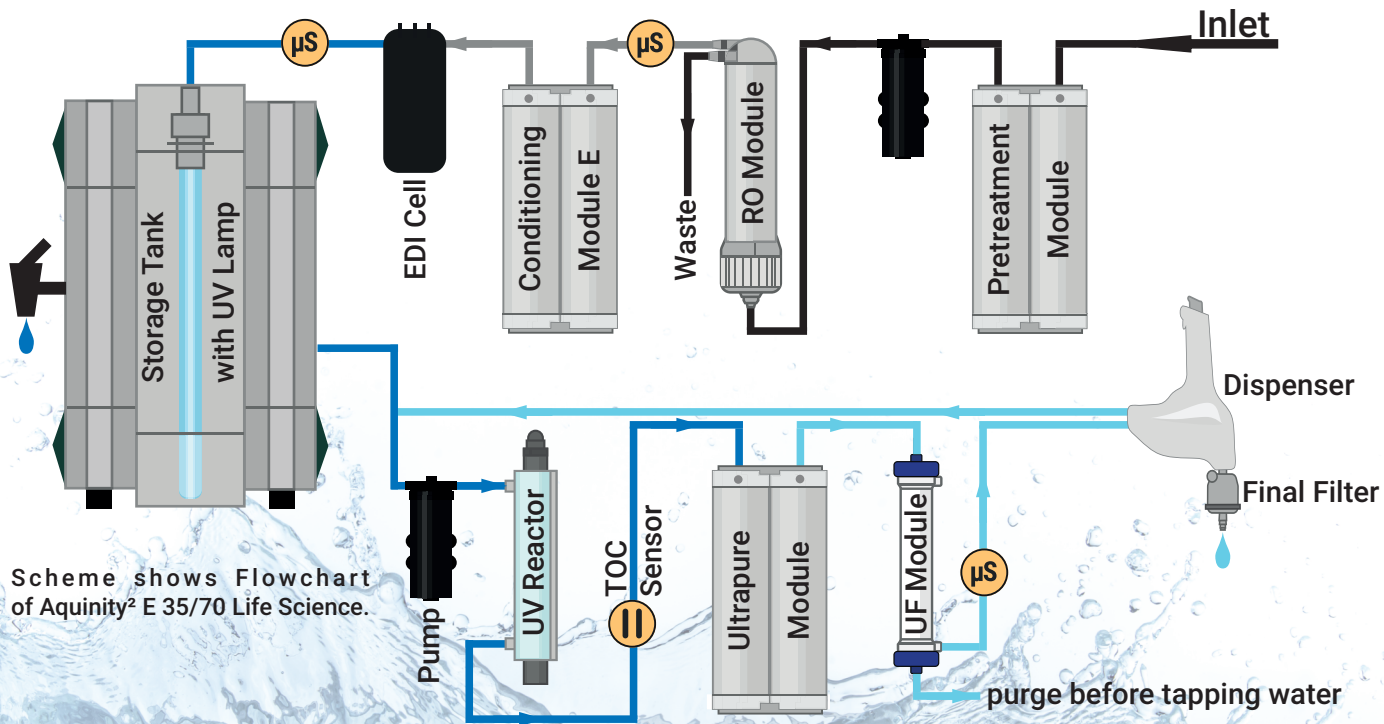


WATER
PURIFIER

The Aquinity² E35/70 system is designed for the production of pure water ($< 0.2 \mu\text{S}/\text{cm}$) and ultra pure water ($0.055 \mu\text{S}/\text{cm}$) out of tap water.

A dynamic splash of clear water against a white background, with droplets and ripples visible. The splash is centered horizontally and occupies the lower half of the frame, creating a sense of freshness and purity.

The Aquinity² E35/70 system is equipped with reverse osmosis and EDI cell to produce deionised water (DI water) into the external storage reservoir (35 L or 70 L) with a production rate of 10 L/h and an access to tap DI water directly. Out of the storage tank the ultra pure water is produced by passing further mixed bed cartridges and then can be tapped with a flexible dispenser. During non-use automatic recirculation within the Aquinity² system ensures a permanent high quality of ultra pure water. All components of the Aquinity² are assembled in an especially designed housing. The system can be easily opened by removing the side panel to access the Ultrapure module and UV lamp.



	Tap Water
	< 10 $\mu\text{S}/\text{cm}$
	< 2 $\mu\text{S}/\text{cm}$
	0.055 $\mu\text{S}/\text{cm}$

Technical Specifications



pure water + ultra pure water	< 0.2 $\mu\text{S}/\text{cm}$; Type II + 0.055 $\mu\text{S}/\text{cm}$; Type I
resistivity	< 5 $\text{M}\Omega\cdot\text{cm}$; Type II + 18.2 $\text{M}\Omega\cdot\text{cm}$; Type I
TOC	< 10 ppb Reagent < 5 ppb Life Science < 3 ppb Analytical
dispensing flow rate	1.5 L/min
productivity rate	10 L/h, optionally 20 L/h
bacteria	< 1 cfu/mL*
particulate	> 0.2 μm less than 1 particulate/mL
pyrogen (endotoxins)	< 0.001 EU/mL
RNAse DNAse	< 1 pg/mL** < 5 pg/mL**
Dimensions, Weight, Power	504 x 680 x 535 mm, 16-20 kg, 110 - 230 V

* with endfilter 0.2 μm ** with microbiological final filter

Feed Water Requirements

type of feed water	tap water
feed water conductivity	< 1400 $\mu\text{S}/\text{cm}$
inlet pressure	1.5 to 6 bar
free chlorine	< 0.1 mg/L
carbon dioxide	< 30 mg/L
silica	< 10 mg/L
Silt Density Index (SDI)	< 3
iron / manganese / sulfate	< 0.01 mg/L / < 0.01 mg/mL / < 2 mg/mL
pH	3 to 9
temperature	5 to 25 °C

Configurations

Aquinity² E35/70 is available in different configurations to fit the specific requirements of pure and ultra pure water quality for different applications.



Aquinity ² (10 L/h)	UV reactor	UF module	TOC monitoring	Cat. No. (35 L reservoir)	Cat. No. (70 L reservoir)	Aquinity ² 20 (20 L/h)
Reagent	-	-	-	114-0053	114-0063	-
Analytical	+	-	-	114-0054	114-0064	-
Life Science	+	+	-	114-0055	114-0065	-
Analytical TI	+	-	+	114-0058	114-0068	114-0076
Life Science TI	+	+	+	114-0059	114-0069	114-0078

Options

µS-control

The µS-control checks the conductivity of feed water to protect the cartridges against inappropriate feed water. If conductivity is too high the water flow will be rejected.

TOC monitoring (TI version)

The TOC monitoring during production and intermittent measurements during non-use periods allows to check the organic content in water continuously between 1 and 999 ppb.

volumetric dispensing

Our dispenser allows the volumetric controlled dispensing of water with an increment of 0.1 L and a tap volume from 0.1 to 99 L. The system prevents overflow of containers and allows to dispense water without supervising.



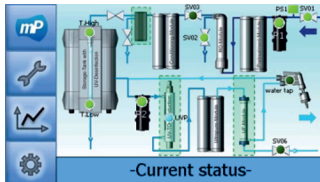
bench integrated (BI version)

To save valuable benchtop space the Astacus² can be ordered as BI configuration. The system will be installed underneath the work bench and only the display and dispenser are mounted on the wall.

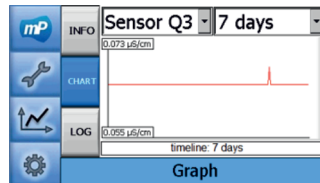


User Interface & Software

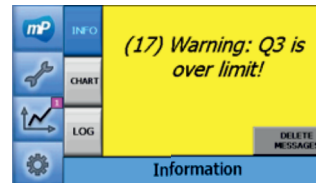
Currently recorded data and warning messages will be displayed on the touch screen monitor. The software furthermore supports the user with a self-diagnostic module which reduced service time and costs.



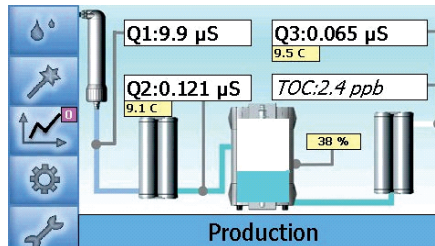
Helping tools to maintain system



Trackable values up to 1 year



Warning of customer in case of over limit and service case



Main Screen: The Software allows the user to see all information to use maintenance tool and track back historical values up to 1 year.





WATER PURIFIER

Consumables

Description	Cat. No.
Conditioning Module E	290-0218
Ultrapure Module „MemPak LS (Life Science)	190-0087
Ultrapure Module „MemPak AL (Analytical)	190-0088
UV lamp	921-0138
submersible UV lamp for reservoir	921-0483
Pretreatment Module ProPak R10	290-0065
Ultrafiltration Module	190-0052
Final Filter, capsule 0.2 µm	190-0013*
Disinfection Tablets	290-0227

* 190-0082 Final Filter to reduce Endotoxin, DNA + RNase

Made in Germany, more than 25 years...



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