

Aquinity² E35/70

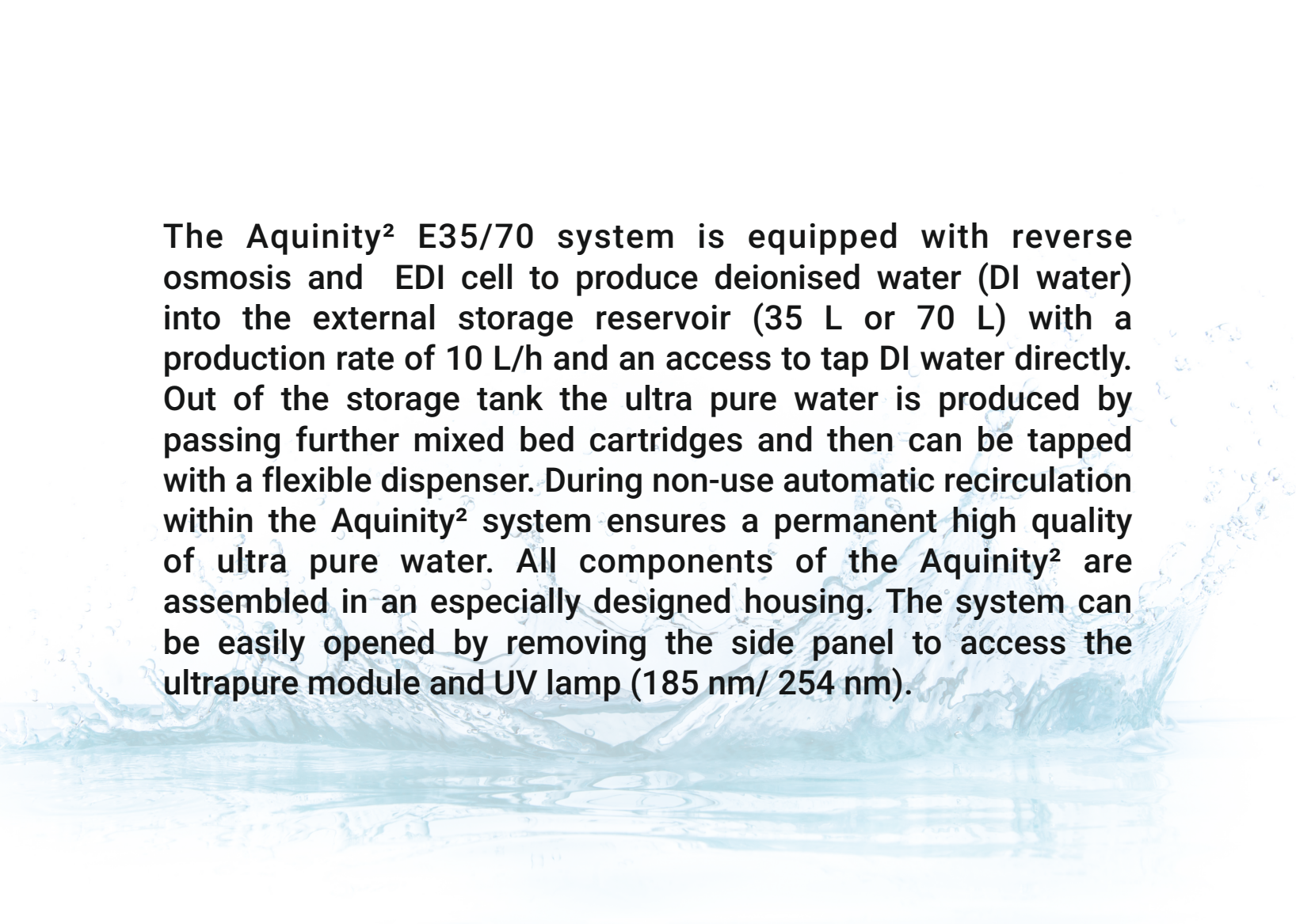
Produces Pure Water & Ultra pure Water



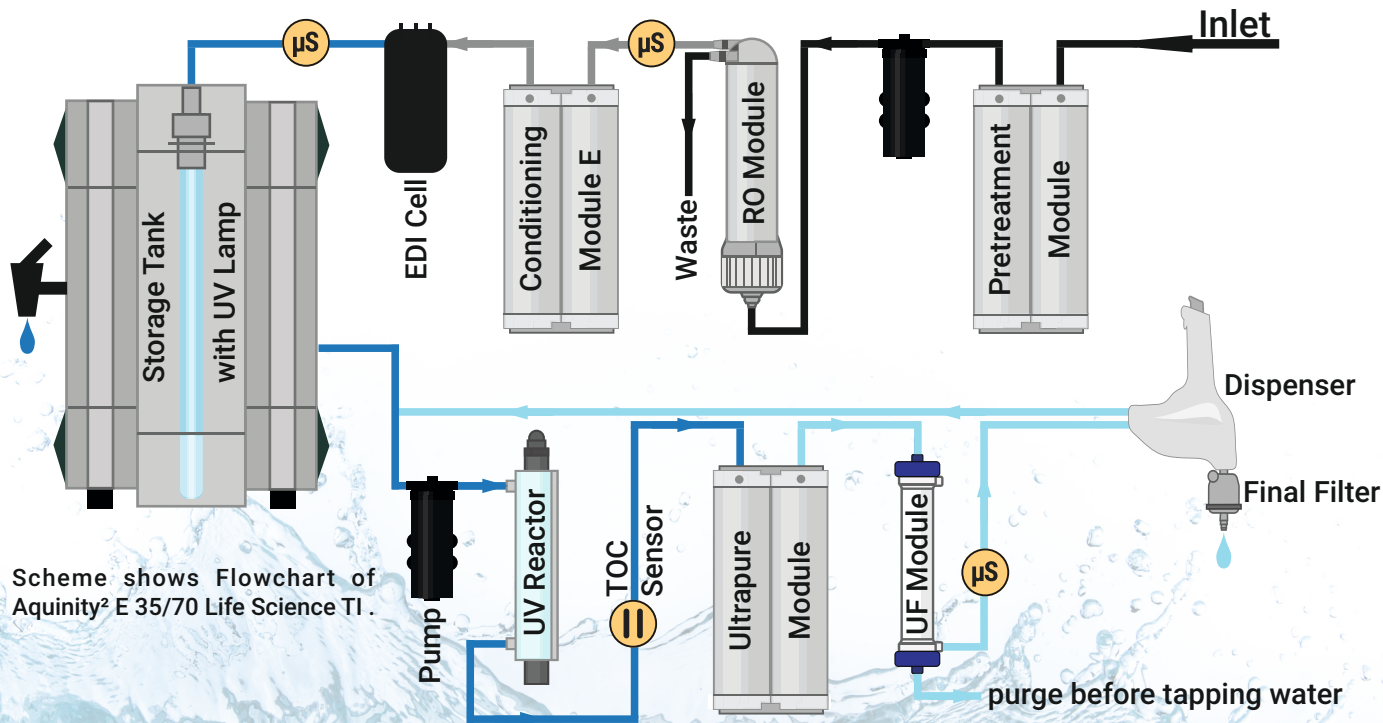




The **Aquinity² E35/70** system is designed for the production of pure water ($< 0.2 \mu\text{S}/\text{cm}$) and ultra pure water ($0.055 \mu\text{S}/\text{cm}$) out of tap water.

A dynamic splash of water in shades of light blue and white, creating a sense of freshness and purity. The water droplets and ripples are captured in motion, with some droplets suspended in the air above the main splash. The background is a soft, out-of-focus white, making the water splash the central visual element.

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 (185 nm/ 254 nm).



	Tap Water
	< 10 µS/ cm
	< 0.2 µS/ cm, Type II
	0.055 µS/ cm, Type I

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	2 L/min (1.5 L/min with Life Science)
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 Life Science model

Feed Water Requirements

type of feed water	tap water
feed water conductivity	< 1400 μ S/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

wall mounted configuration

To save valuable benchtop space the system can be ordered as wall mounted configuration. The whole system can be mounted on the wall with inclined display.

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.



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.

volumetric dispensing

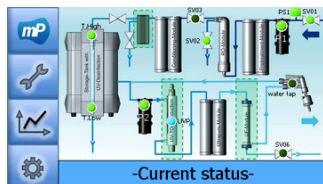
Our dispenser allows the volumetric controlled dispensing of water with an increment of 0.1 L and a tap volume from 0.1 to 99 L. The system prevents overflow of containers and allows to dispense water without supervising.



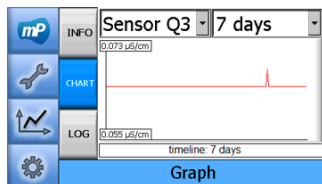
WATER
PURIFIER

User Interface & Software

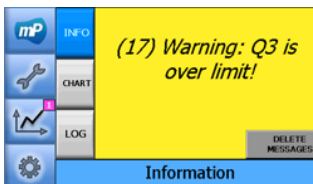
Currently recorded data and warning messages will be displayed on the touch screen monitor. The software furthermore supports the user with a self-diagnostic module which reduced service time and costs.



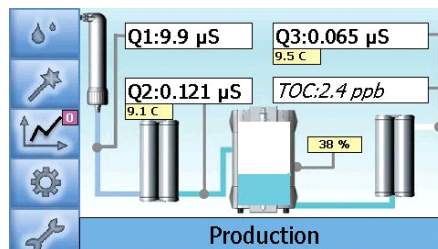
Helping tools to maintain system



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
Ultra pure Module MemPak Life Science/Analytical	190-0087 / 190-0088
vent filter for external tank	190-0085
UV lamp (185 nm/ 254 nm)	921-0138
submersible UV lamp for reservoir	921-0483
Pretreatment Module ProPak R10	290-0065
Ultrafiltration Module	190-0096
Final Filter, capsule 0.2 µm	190-0013*
Disinfection Tablets	290-0227

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

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