# Aquinity² P35/70

*Produces pure water & ultra pure water*


mP WATER PURIFIER

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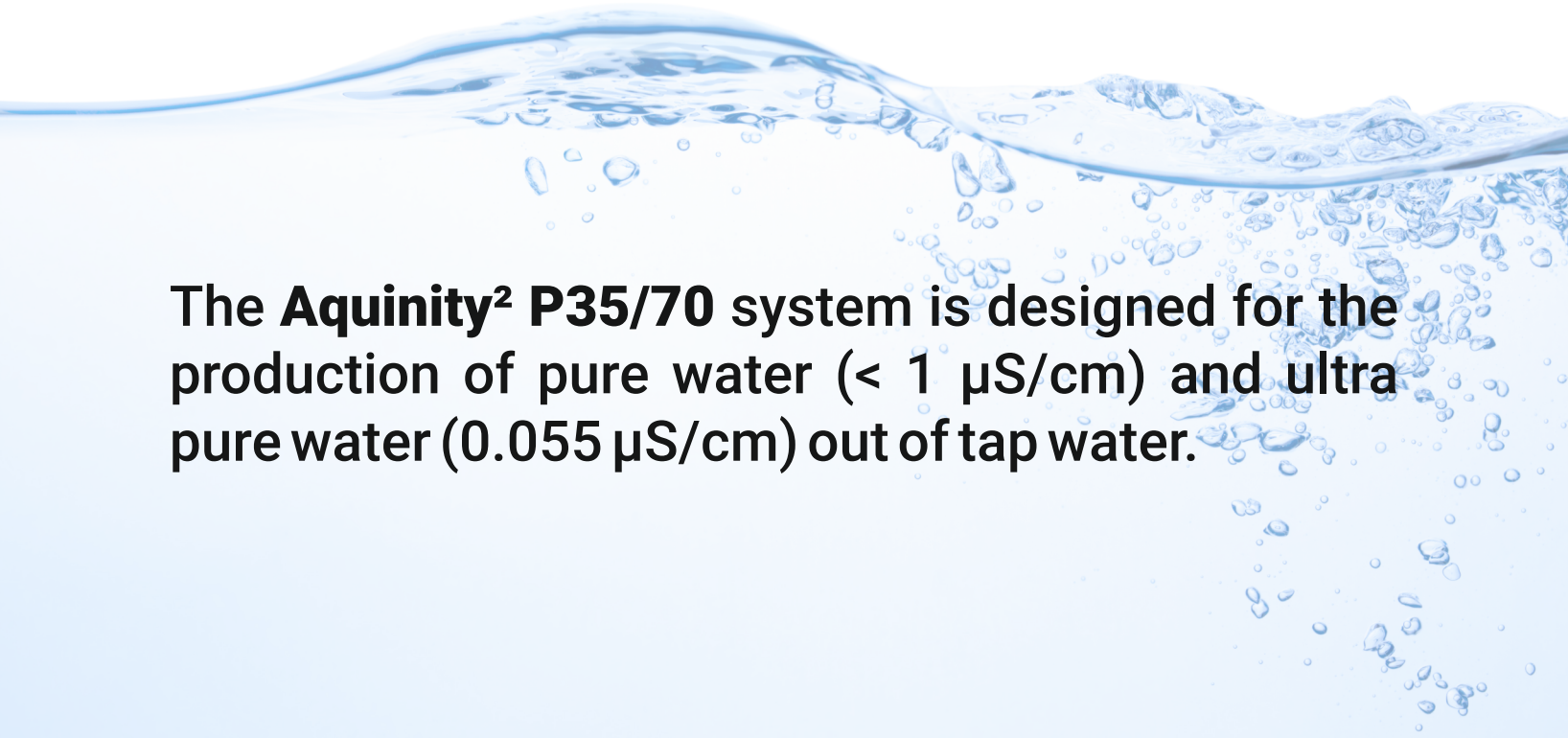
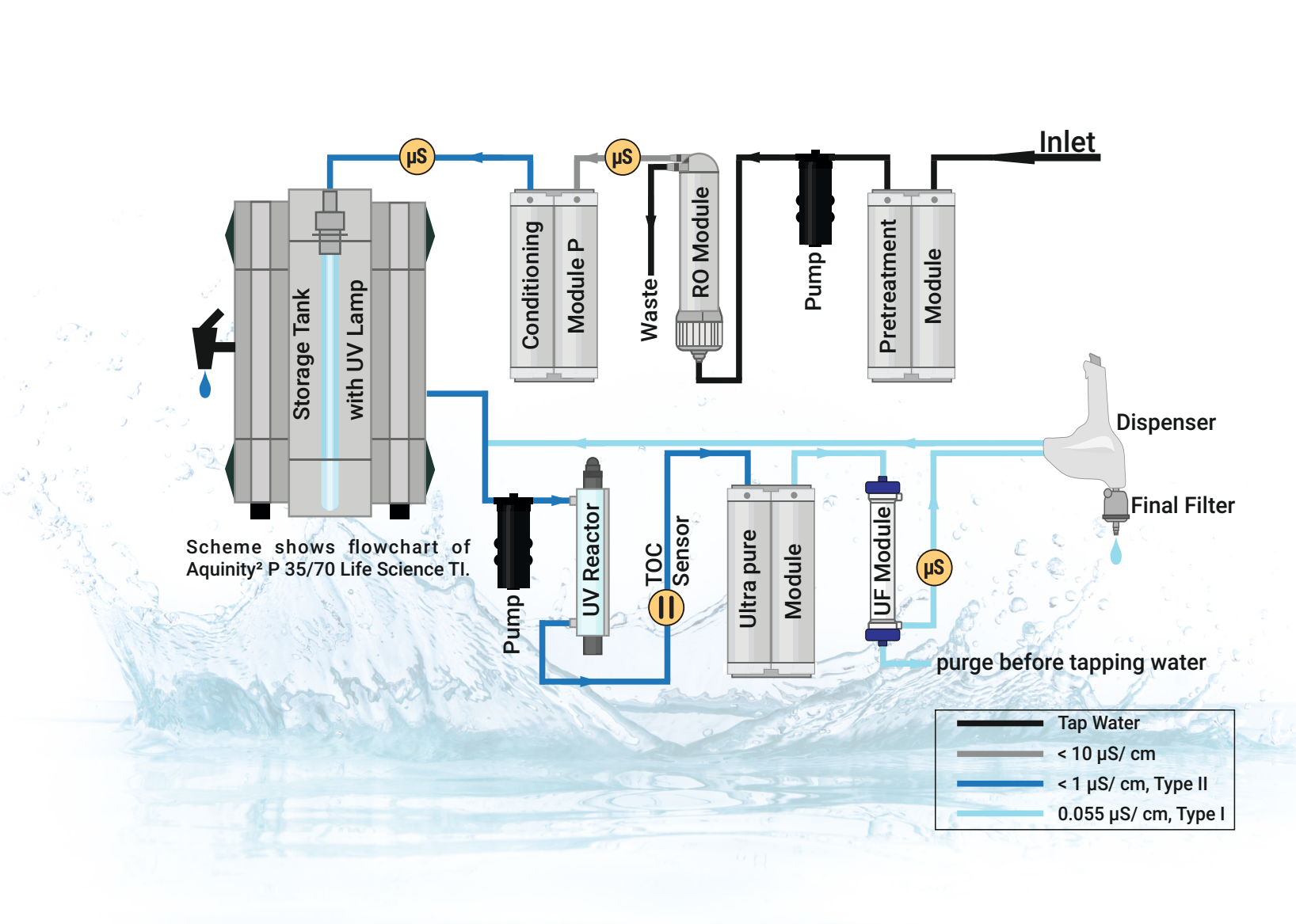


The **Aquinity² P35/70** system is designed for the production of pure water (< 1 µS/cm) and ultra pure water (0.055 µS/cm) out of tap water.

The Aquinity² P35/70 system is equipped with a reverse osmosis (RO) and conditioning module 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 with 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 ultrapure 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 ultra pure module and UV lamp (185 nm/ 254 nm).


Inlet
µS
µS
Pump
Pretreatment Module
RO Module
Waste
Conditioning Module P
Storage Tank with UV Lamp
Dispenser
Final Filter
Scheme shows flowchart of Aquinity² P 35/70 Life Science TI.
Pump
UV Reactor
TOC Sensor
Ultra pure Module
UF Module
µS
purge before tapping water
Tap Water
< 10 µS/ cm
< 1 µS/ cm, Type II
0.055 µS/ cm, Type I

# Technical Specifications

mP WATER PURIFIER

| | |
|---|---|
| conductivity | < 1 µS/cm; ASTM Type II + 0.055 µS/cm; ASTM Type I |
| resistivity | > 1 MΩ·cm; ASTM Type II + 18.2 MΩ·cm; ASTM Type I |
| total organic carbon (TOC) | < 10 ppb Reagent \| < 5 ppb Life Science \| < 3 ppb Analytical |
| dispensing flow rate | 2.0 L/min (1.5 L/min Life Science) |
| productivity rate | 10 L/h, optionally 20 L/h |
| bacteria | < 0.01 cfu/mL* |
| particulate | > 0.2 µm, less than 1 particulate/mL |
| pyrogen (endotoxins) | < 0.001 EU/mL |
| RNAse \| DNAse | < 0.5 pg/mL* \| < 10 pg/mL* |
| dimensions, weight, power | 650 x 560$^{+}$ x 540$^{+}$ (W x D x H), 16-20 kg, 110-230 V |

* with Life Science model or microbiological endfilter

$^{+}$ with dispenser 650 x 590 x 750 mm

# Feed Water Requirements

| | |
|---|---|
| type of feed water | tap water |
| feed water conductivity | < 1400 µS/cm |
| inlet pressure | 1.5 to 6 bar |
| free chlorine | < 0.1 mg/L |
| Silt Density Index (SDI) | < 3 |
| pH | 3 to 9 |
| temperature | 5 to 25 °C |

# Configurations

Aquinity² P35/70 is available in different configurations to fit the specific requirements of pure and ultrapure water quality for different applications.


| Aquinity² (10 L/h) | UV reactor | UF module | TOC monitoring | Cat. No. (35 L reservoir) | Cat. No. (70 L reservoir) | Aquinity² 20 (20 L/h) |
|---|---|---|---|---|---|---|
| Reagent | - | - | - | 114-0050 | 114-0060 | - |
| Analytical | + | - | - | 114-0051 | 114-0061 | - |
| Life Science | + | + | - | 114-0052 | 114-0062 | - |
| Analytical TI | + | - | + | 114-0056 | 114-0066 | 114-0074 |
| Life Science TI | + | + | + | 114-0057 | 114-0067 | 114-0075 |

# Options

## TOC monitoring (TI version)

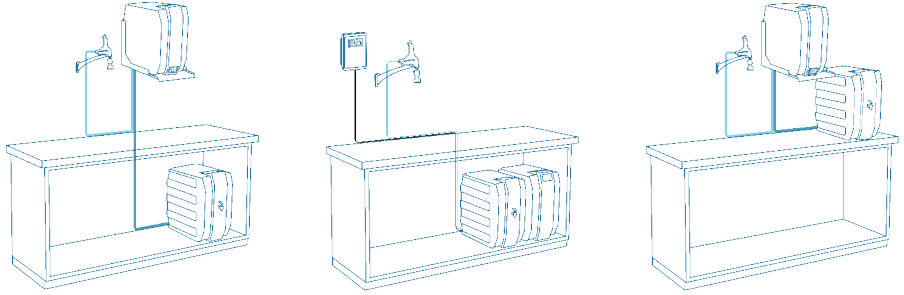
The TOC monitoring during production and intermittent measurements during non-use periods allows to check the organic content in water continously between 1 and 999 ppb.

## 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.

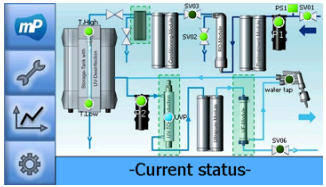
## wall mounted configuration & bench integrated (BI version)

To save valuable benchtop space, the system is available in two main space-saving configurations. Either the entire system can be wall-mounted and an inclined display for a more convenient operation or ordered as a bench- integrated configuration. Alternatively, only the system or the tank can be fitted in this way. This results in a wide variety of combinations. Furthermore it is possible to install the display and dispenser on the wall.

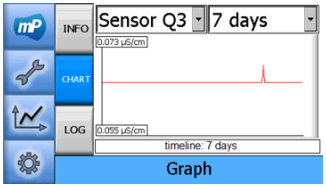


# User Interface & Software

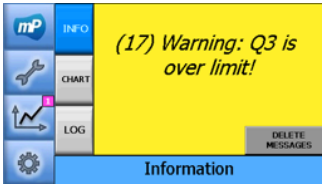
**Currently recorded data and warning messages will be displayed on the touch screen monitor. The software furthermore supports the user with a self-diagnostic module which reduced service time and costs.**



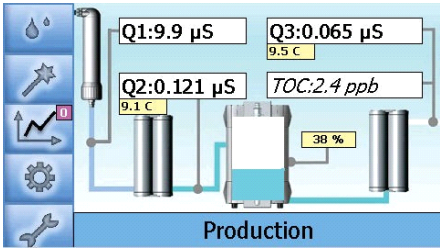

Helping tools to maintain system




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.

| Description | Cat. No. |
|---|---|
| Conditioning Module P | 190-0086 |
| 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 | 921-0659 |
| Pretreatment Module ProPak R10 | 290-0065 |
| Ultrafiltration Module | 190-0096 |
| Final Filter, capsule 0.2 µm | 190-0013* |
| Disinfection Tablets | 290-0227 |

* 190-0305 Final Filter to reduce Endotoxin, DNA + RNAse

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membraPure
mP
WATER · TOC · AMINO · ION


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