

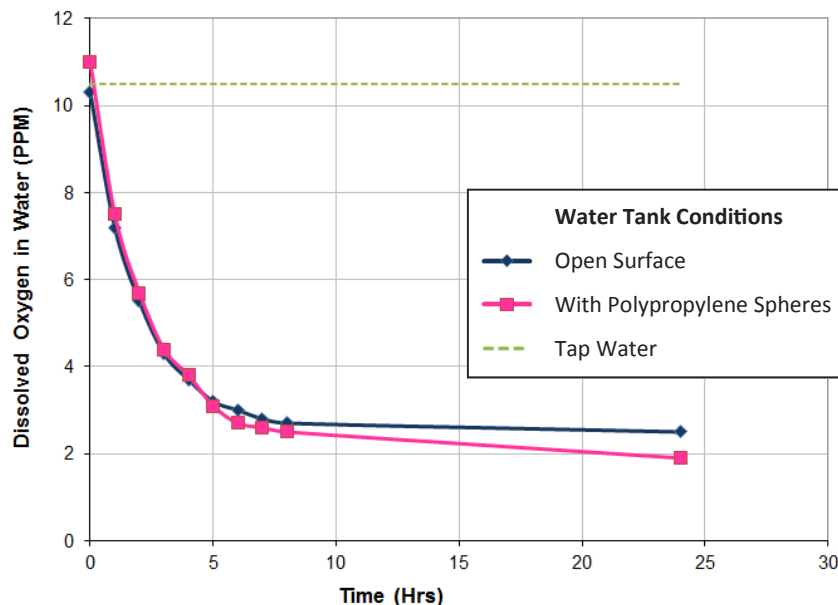
Water Conditioner (AQUAS-10)

The AQUAS-10 is a complete water conditioner designed for use with ultrasound measurements in compliance with Technical Report IEC 62781. Because the quality of acoustic measurement can be significantly affected by various impurities - such as dissolved gases, deionized compounds, suspended particulates, and biological contaminants - a water treatment system is critical. The AQUAS-10 controls each of these factors in a fully integrated simple-to-use system.

Features:

- Simple installation for use with ultrasound measurement system
- Degasses water to remove undesired bubbles that perturb the acoustic field
- Deionizes water to minimize electrical noise received by hydrophone
- Removes suspended particles that scatter ultrasound
- Removes biological contaminants that pose as a health risk
- Remote power switch easily turns the water pump ON and OFF
- Transparent removable front panel quickly determines maintenance needs
- Replace particle and DI filters in less than 15 minutes
- Water sensor safeguards against any leaks
- Compact portable design fits under standard laboratory bench

Degassing Performance:



* Results tested at room temperature with AIMS III (S) tank which has an water surface area of ~3900 cm²

** Layer of hollow polypropylene spheres (1.4 inch diam) added to the AIMS III (S) tank, reducing the surface area and limiting oxygen re-absorption



AQUAS-10 Water Conditioner



Remote ON/OFF Pump Switch

Technical Specifications

- **Degassing:** dissolved oxygen reduced down to 4 ppm (or mg/L) in 5 hours for a 100 liter tank
- **Flow rate:** approx. 1.2 L per min
- **Filter cartridges:** 1 micron particle filter, deionizing filter
- **UV Sterilizer:** in-line ultraviolet lamp
- **Power:** 110-120VAC, 50/60Hz, approx. 2 amps running
220-240VAC, 50/60Hz, approx. 1 amps running
- **Cabinet dimensions:** 55 cm (W) x 56 cm (H) x 52 cm (D)
21.5" (W) x 22" (H) x 20.5" (D)
- **System Dry Weight (approximate):** 25 kilograms or 55 pounds

Contents

- Two (2) hoses for inlet and outlet, 0.5" ID and 36" length
- Two (2) sets of DI and particle filters (one set as spare)
- Filter canister removal tool
- Remote ON/OFF switch for water pump (10 feet long cable)
- AC power cord