



WATER PURIFICATION HIGHEST WATER QUALITY

Advanced water purifying system for seamless integration into equipment



AQUARI is more than just a water purifying system; it's a cutting-edge solution meticulously engineered to balance cost effectiveness with unparalleled water quality for our customers' equipment.

With a focus on affordability without compromising performance, **AQUARI** ensures that your equipment operates at its peak efficiency while maintaining the highest standards of water purity.

COMPONENTS



WATER TANK & MIXED BED RESIN

Removes hard water minerals through ion exchange.



WATER FILTERS

(PP filters and carbon filters)
Blocks debris as a physical barrier.



CONDUCTIVITY METER

Measures water conductivity in the tank and filters.

WHAT DOES WATER SYSTEM CONSIST OF?

- ✓ **Water Tank & Mixed Bed Resin:**
For ion exchange process, which remove hard water minerals from the water
- ✓ **Water Filters (such as PP filters and carbon filters):**
Physical barrier that can block or trap debris
- ✓ **Conductivity Meter:**
To measure the conductivity of water passing through the water tank and filters

HOW DOES AQUARI WORK?

Water enters the tank and is distributed evenly over the resin

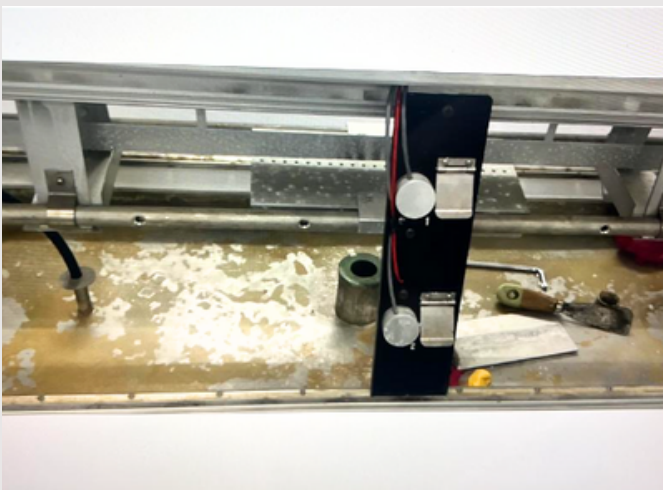
Resin induces ion exchange, deionizes water as it flows through

Resin change is required at 200 $\mu\text{S}/\text{cm}$ conductivity

Water is filtered and exits the tank as treated water

Water tank is collected back

Replacement of resin and cleaning of water tank for continual performance



TYPES OF WATER GRADES

3 Types Of Water

3 Types of Water	
Type 1: Ultrapure	Filtered to meet the strictest purity criteria, ensuring freedom from contaminants. Employed in delicate processes such as HPLC, AAS, and Mammalian Cell Culture.
Type 2: DI Water	Produced through a combination of reverse osmosis and ion exchange. Used in general laboratory.
Type 3: Reverse Osmosis (RO) Water	Produced through a carbon filtration and RO technology. Most cost-effective way to reduce water contaminants. Used in non-critical work (rinsing beakers, filling water baths or feeding autoclaves).

Factors affecting water purity

Factors	
1	Sedimentation : <ul style="list-style-type: none"> Increases turbidity of water Greater costs to treat water with sediment
2	pH <ul style="list-style-type: none"> High pH water causes water pipes to be encrusted with deposits Low pH water can corrode or dissolve metals
3	Temperature can affect conductivity of water
4	Conductivity The higher the conductivity, the higher amount of impurities in water

Water Quality Parameters by ASTM

Parameter (Unit)	TYPE 1	TYPE 2	TYPE 3
Resistivity (MΩ-cm)	18	1	4
Conductivity (µs/cm)	0.056	1	0.25
pH at 25°C	N/A	N/A	N/A
Total Organic Carbon (TOC) ppb or µg/L	50	50	200
Sodium (ppb or µg/L)	1	5	10
Chloride (ppb or µg/L)	1	5	10
Silica (ppb or µg/L)	3	3	500

WATER SYSTEM SPECIFICATION

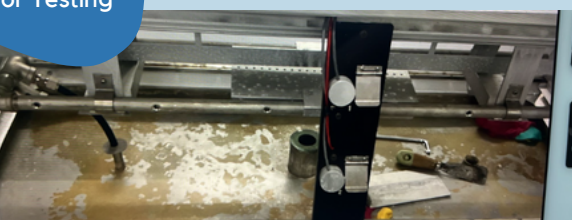
3 Types Of Water



Aquari Water System	
Model	07 x 35 "
Resin Vol.	19.7 Litres (Cation & Anion)
Weight	5.1 kg
Water Quality	Better than 1 μ S
Max Flowrate	500 Litres/Hour

Description	
Double Stage Clear Filter Housing	1PC
Single Stage clear Filter Housing	1PC
VE-pure online conductivity meter	1PC
FRP735 DI column	1PC
IONLITE mix bed resin	15L
Ultraviolet sterilization system	1PC
PP Filter	3PCS
Carbon Filter	3PCS
1 Year Warranty	-

Water Quality Parameters by ASTM



ADVANTAGES OF USING

For Customers

Versatility:
Customizable

Reliable
Performance

Cleaner
water

User
friendly

For Businesses

Increased
Revenue

Seamless
Integration

Enhanced
Customer
Experience

Comprehensive

SERVICES WE PROVIDE

- River / Raw Water Treatment System
- Ultra Pure Water, Deionized (DI) System
- Reverse Osmosis (RO)/Ultrafiltration (UF) System
- EDI System
- Ultraviolet Sterilizer (UV) System
- Sand / Multi Media / Carbon Filter
- Water Softener
- Tubewell Water Treatment System
- Waste Water Treatment System
- Vacuum / Thermal System
- Surface Aerator
- Scrubber System
- PVC, PP, PE, GI, SS and PVDF Piping Installation

