

AQUANELLA® TS (TANK SHOWER)

AQUANELLA IS OFFERED BY FSI AS FOLLOWS:

F-AQ-350® Aquanella® Stick - 350 litre (approx. 92.5 Gallon) Safety Tank Shower Up to three (3) years of protection against bacteria infestation, scale inhibition, and corrosion. A very cost effective product available today.

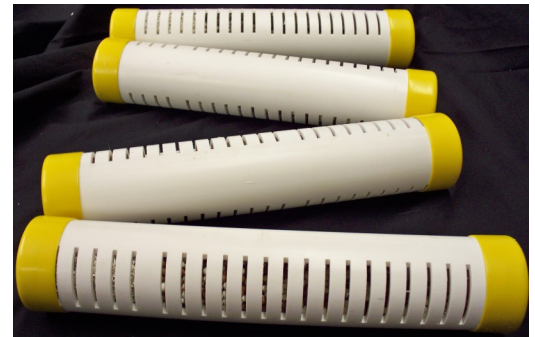
F-AQ-800® Aquanella® Stick - 800 litre (approx. 210 Gallon) Safety Tank Shower. Up to three (3) years of protection against bacteria infestation, scale inhibition, and corrosion. A very cost effective product available today.

F-AQ-1200® Aquanella® Stick - 1200 litre (approx. 315 Gallon) Safety Tank Shower. Up to three (3) years of protection against bacteria infestation, scale inhibition, and corrosion. A very cost effective product available today.

F-AQ-2000® Aquanella® Stick - 2000 litre (approx. 526 Gallon) Safety Tank Shower. Up to three (3) years of protection against bacteria infestation, scale inhibition, and corrosion. A very cost effective product available today.

Complete Treatment for Water Storage Tanks

- Non Chemical Water Treatment
- Constant Protection against Bacterial Infestation
- Non Hazardous in Use
- Exceptional Kill Rates
- Improved Water Quality
- Reduces hard water scaling and soft water corrosion
- Low Maintenance
- No power requirement
- Non Toxic
- Environmentally friendly
- Cost Effective
- 3 Year life span



Prevents

**LEGIONELLA PNEUMOPHILIA, E. COLI,
PSEUDOMONAS, STAPHAUREUS, ENTERO
AEROGENES, and SALMONELLA TYPHOID**

TYPICAL APPLICATIONS

- Cold Water Storage Tanks
- Cooling / Heating Circuits
- Cooling Towers
- Hot Water Re-Circulatory Systems
- Swimming Pools
- Spa's

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What is Legionella Pneumophilia?

- An anaerobic bacterium that is widely distributed in natural and manmade freshwater habitats
- Can induce Legionnaires' disease, a respiratory infection caused by inhaling water droplets infected with the bacterium
- Commonly found in water systems (hot or cold), especially air conditioners, showers and recirculating systems
- Breeds between 20 degC and 55 degC

How does it work?

Uses to Active Ceramic Spheres and Noble Metals (such as silver and copper) to kill Anaerobic Bacteria.

Active Ceramics

Active Ceramics causes hydroxyl ions (OH) to convert to oxygen gas O₂). This oxidation by the electrolysis of water acts as a potent disinfectant against anaerobic bacteria. Bacteria are attracted by the chemical activity of the active ceramics and attach themselves to the surface.

The products of the electrolytic process rapidly destroy the DNA and or the membrane enveloping the cell. The ability of the bacteria to thrive and reproduce is ended.

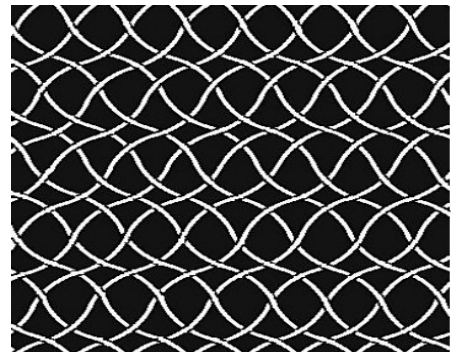
The spheres act like tiny batteries when placed in water with the differing metals creating electrolysis which produces active oxygen species which are deadly to bacteria and balances the pH of the water. The spheres also produce a minute electrical current 0.06ma. This effect is caused by the tourmaline and quartz in the ceramic

Total Silver Matrix (pat pending)

The silver matrix releases silver and copper ions into the water then the ions re-plate back onto the matrix.

The mechanism is a dual - the first is flow, the second is pH. When the silver is released the pH rises - as the pH reaches a certain level the silver automatically re-plates itself back onto the strands.

The detached silver and copper ions attach themselves to the bacteria and kill them.



Benefits of combining both mediums

- Optimizes the disinfection rate in each individual bacteria type.
- Residual downstream protection is improved through the release of silver and copper ions. (Total Silver Matrix)
- Balanced pH of the water, immediately inhibiting the deposit of scale.
- Prevents the formation of bio-film and algae.
- The minute electric charge and consequent oxidation produced by the 'Active Ceramics' stimulates the effect of the 'Total Silver matrix'.
- All of this is achieved by modules that have a guaranteed optimum operational life of 3 years.

TESTING / APPROVALS

• South West Water Laboratories • Thames Water PLC Research & Technology • Water Quality Centre, Reading • Approved by Water Research Council • Approved by NAMAS accredited laboratories • Complies with BS6920 PT1 • Meets standards of Water Byelaw schemes • Complies with COSHH regulations • Complies with Occupational Exposure Limits