



AYUS[®]
TECHNOLOGY



PERFECT WATER

Solving your scaling issues and delivering water at its optimum state for best hydration and quality.

AYUS TECHNOLOGY

Medium to hard water scale deposits cause serious issues and problems in plumbing infrastructure to pipes, heat exchangers and equipment. As water loses the ability to keep ions in solution, calcium and carbonate ions collide and start the formation of microscopic crystals which ultimately deposit on plumbing infrastructure and equipment.

To date, water treatment has largely been done by ion exchange with "salt" systems that remove minerals and replace them with salt. This, of course just replaces one problem with a different one, significantly affecting the quality of water.

THE PROBLEM

Hard water scale causes serious issues with plumbing infrastructure, equipment and processes.

De-hydration and low-hydration is one of the most underestimated conditions in both human and animal health, performance, concentration and overall wellbeing.

Medium To Hard Water

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Soft Water

Low mineral content makes water aggressive, causing pre-mature corrosion of pipes and equipment.

Insufficient Hydration Properties

Dehydration can have severe impact on the heart, muscles, blood volume and cognitive functions. We have all heard that dehydration is a condition to be avoided. Water is hugely important and vital for the majority of bodily functions.

Water, that is a main constituent of blood, helps in dissipation of heat as well as in delivery of oxygen and nutrients plus it is vital for the removal of waste products from cells.

During dehydration the heart is forced to work harder to help improve the body's ability to cool itself. Dehydration occurs when the body loses more water than it takes in.

During body warming water continuously moves out of the body's individual cells, and eventually out of the body as water vapour through breathing, as well as in sweat and urine. If this water is not replaced through drinking, the body can begin to lose its ability to function normally.

THE AYUS SOLUTION

Ayus water treatment improves water

- ✓ Reducing issues with scale and corrosion
- ✓ Ayus water treatment devices are embedded with **<33 Technology** for non-chemical water conditioning. Delivering superior hydration properties (processes and when consumed).

By increasing the solubility of water, calcium and carbonate ions are held in solution eliminating the formation of calcium carbonate crystals (scale).

This is achieved by increasing the thermodynamic properties of water – bringing the water to a higher energetic state.

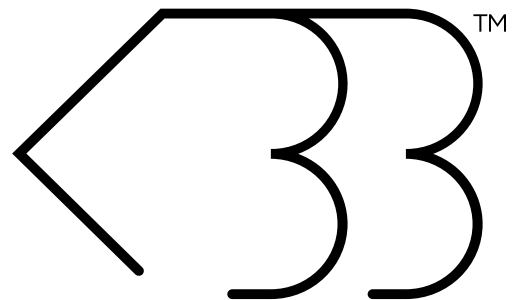


After 30 wash cycles without / **with Ayus Technology**

THE TECHNOLOGY

<33 Technology is a passive antenna, not unlike an RFID device (key fob, door access card). <33 devices are embedded with specific, beneficial energy patterns.

They are continuously powered and activated by atmospheric wave energies that vibrate at and below 33Hz, thus eliminating the need for power or batteries.



THE BENEFITS

Ayus Technology helps solving your scaling issues and delivers water at its optimum state for best hydration and quality.

✓ Laundry

Improved solubility reduces detergent usage, better cleaning and rinsing ability.

✓ Equipment

Increased life of equipment, in some cases by almost double.

✓ General

Improvement in processes of virtual anything where water is used.

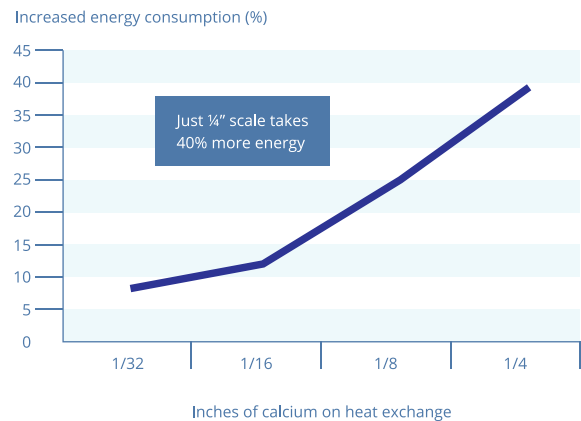
Increased Solubility - Anti Scaling

This higher energetic state allows water to hold scale ions in solution and not form calcium carbonate scale deposits.

Calcium ion activity is significantly reduced when water is conditioned with <33. It makes "hard" water act like "soft" water due to the change in the thermodynamics of solvating ions & molecules. Water makes and breaks bonds when solvating dissolved ions & molecules.

✓ Energy Savings

Calcium deposits from water insulates heat exchanges (heating water or cooling). Insulated heat exchanges need more energy to be effective.

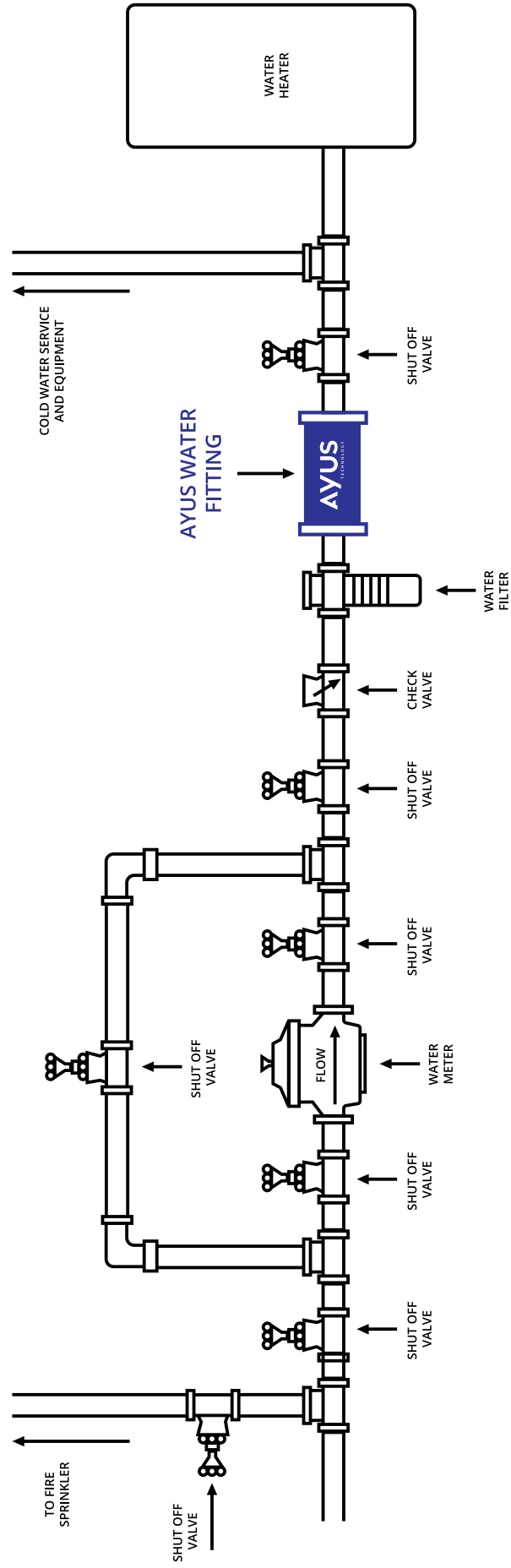


Superior Hydration Properties

Additionally, the water quality is significantly improved delivering superior hydration as shown in a double-blind randomized cross-over clinical hydration study.

Not only did <33 treated water improve hydration it decreased the extend of dehydration in athletes and in close to 90% prevented dehydration.

- ✓ <33 improves how water flows across cell membranes
- ✓ Delivers superior hydration
- ✓ Prevents dehydration
- ✓ Increases bioavailability of minerals and trace elements



COMMERCIAL USE

HOTELS
RESTAURANTS
HIGHRISE-
INDUSTRIAL BUILDINGS
COOLING TOWERS

Water is the most important ingredient to life and necessary beyond anything else to sustain it. The **quality** and **state** of the **water** we consume directly reflects our **wellbeing!**

The benefits are multifold as <33 Technology delivers best quality water directly affecting the quality of water-based beverages (i.e. coffee, tea, soft drinks, etc.), food preparation as well impacting the water quality in hotel rooms (i.e. shower experience).

✓ Energy

Calcium deposits from water insulates heat exchangers (water heating and cooling applications).

✓ Equipment

Calcium build up and corrosion. Calcium and corrosion significantly reduce the service life of essential equipment.

✓ Labour

Regular maintenance needed to clean, repair, and de-scale equipment.

✓ Chemicals

Hard water requires more chemicals and detergent.



Wellbeing - Hydration

Best quality drinking water improves hydration and overall wellbeing. It also improves shower experiences, pool and hot tub water quality and overall feel.

Energetic State - Scaling

The energetic state of the water directly affects its performance and interaction with everything from heat exchangers, plumbing infrastructure, equipment lifespan and chemical use as well as labour costs.

INDUSTRIAL USE

AGRICULTURE FARMING

Water is a critical and the forgotten nutrient in animal health. The quality and energetic state of water critically affects animal health, metabolism, animal growth, feed absorbance, and productivity.

Dairy Farms

Adequate and best hydration are hugely important to the health of dairy cows and it directly effects milk production and quality.

Livestock

Water quality, as well as quantity, may affect feed consumption and animal health since poor water quality will normally result in reduced water and feed consumption.

When evaluating water quality for livestock, consider whether livestock performance will be affected; whether water could serve as a carrier to spread diseases; and if the acceptability or safety of animal products for human consumption will be affected.

(REF: Ohio State University)

✓ Poultry

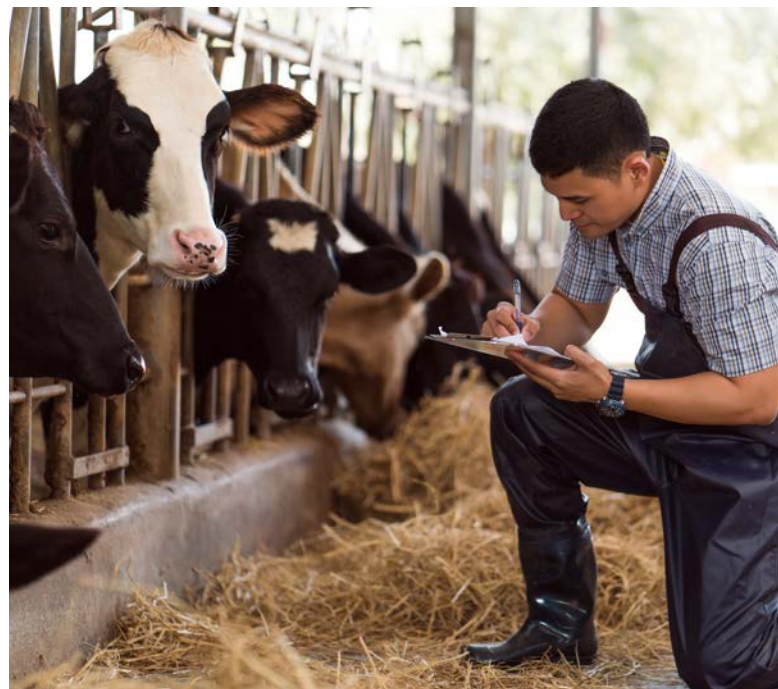
Water is a critical, but often overlooked, nutrient. Animals can survive longer without food than they can without water. Water is involved in every aspect of animal metabolism. It plays an important role in regulating body temperature, digesting food, and eliminating wastes.

At normal temperatures, chickens typically consume twice as much water as feed. During periods of high temperature, water consumption can double or quadruple. To remain healthy, poultry flocks require water of adequate quality and quantity.

✓ Pigs / Swine

Water is a key ingredient for every organism; thus, also for pigs. Water is in fact the most important nutrient consumed by the pig during its lifetime. Pigs require water for various reasons.

Water controls metabolic functions, adjusts body temperature, transports nutrients to body tissues, removes metabolic waste, promotes the production of milk and, of course, contributes to growth and production. It is therefore no surprise that readily available clean fresh water is essential for the health and welfare of pigs.





CONTACT US

Have further questions or inquiries? Let us know how we can help and if we can provide you with more information. Give us a call **800-900-6045** or send an email to **info@ayuswater.com**

Satisfied Clients



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