

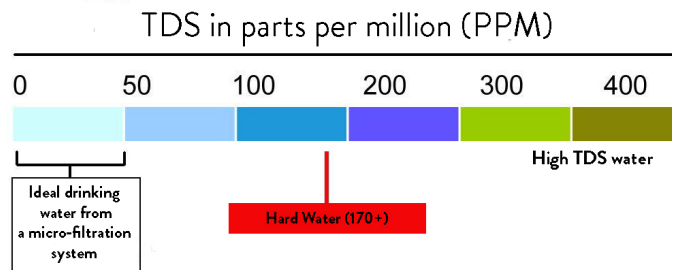


# Aqua Purifier Data Sheet

## THE SCIENCE OF WATER

Drinking water and wastewater are regulated to extremely high standards in the UK.

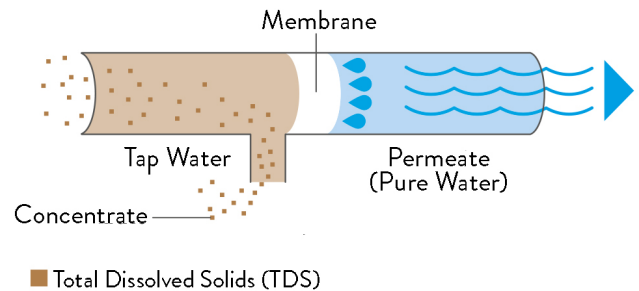
Many water dispense companies already use a filtration system that helps remove impurities, also known as TDS (Total Dissolved Solids). These impurities and chemicals can be found in regular tap water. Around 65% of the UK's mains water is classified as hard containing TDS levels of 170+ TDS<sup>1</sup>



## WHAT DOES FILTRATION DO TO 'TDS'?

Filtrating removes microplastics, and other inorganic particles, that improve the taste of the water. However, filtering alone doesn't rid the water of chlorine, dissolved metals, and pathogens such as escherichia coli, vibrio cholerae, and cryptosporidium hominis.

The TDS diagram opposite, shows how you can improve your water quality by using the Aqua Purifier system.



## WHAT IS THE DIFFERENCE BETWEEN FILTRATION AND PURIFICATION?

Pure water is totally free of pathogens. Purified water is also free of all inorganic material, including the naturally occurring minerals that can build up to form LIMESCALE.

## WHAT IS LIMESCALE? AND HOW DO WE MANAGE IT?

Limescale is an accumulation of mineral compounds, left behind on hard surfaces after water has evaporated or boiled. In many cases, these surfaces are the interiors of pipes and appliances, and limescale build-up goes undetected until some real damage has been done.

The image on the right depicts the cup of tea prepared with filtered versus purified water. On the left, we can see the traces of limescale floating in the beverage, compared to split section on the right, where the tea has been prepared with purified water.



<sup>1</sup> Reference taken from <https://www.scaleguard.co.uk/hard-water-areas.html>

### TALK TO US

London showroom: 1 New Street, London, EC2M 4TP

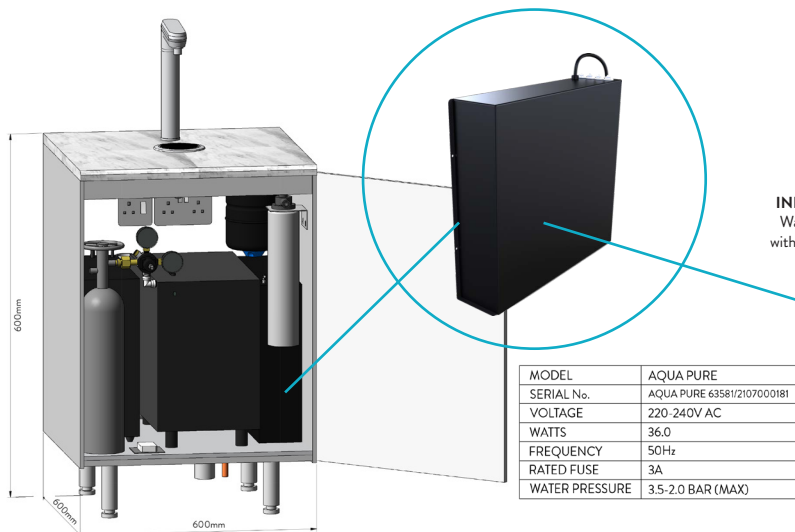
[www.aqualibra.com](http://www.aqualibra.com) | 0800 080 6696 | [hello@aqualibra.com](mailto:hello@aqualibra.com)

## GREAT TASTE. NO LIMESCALE!

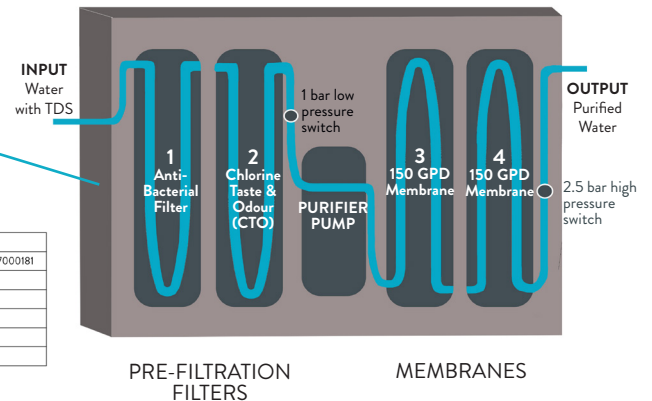
Aqua Libra Co is the only company in the industry that uses purified water in the boiler, which increases water quality, eliminates LIMESCALE to **ZERO** and cuts faults and breakdowns by 90%.

Tap water travels through 4 stages to completely remove all traces of contaminants.

Stage 1 & 2 filters any traces of chlorine, taste, and odours, before it passes into the Aqua Purifier. The water then passes through stages 3 & 4 indicating high capacity [150 GPD per membrane].



The diagram below shows the internal process of the **Aqua Purifier** 4 Stage filtration process.



The image above shows how the Aqua Purifier fits neatly into a 600mm cupboard, along with the other streamline modules that support hydration solutions.

**What is the importance and functionality of the Membrane?**  
Thin Layer Composite (TLC) membrane | 100% dry membrane maximizing shelf life  
High rejection stability at high input TDS | Maximal pressure: 6.90 bar  
Maximal temperature: 49°C pH: 4-11 | Free chlorine: 0.1 ppm

## SEE AND TASTE THE DIFFERENCE

**What are the implications that limescale can have over time.**

The diagram on the right shows a case study, which has been carried out to identify the impact of limescale on a water boiler, within 83 days.

The boiler on the left has been dispensing boiling water without any limescale management method, resulting in a build up of heavy limescale eroding the internal components of the boiler. In comparison, the boiler on the right has been connected to the Aqua Purifier throughout the case study, showing no impact of limescale on the boiler.

The majority of faults and breakdowns, with hot water products are caused by limescale. Limescale build up reduces water flow to your appliances meaning they will not function properly, adding additional cost to repairs and replacements.

## AQUA PURIFIER = NO LIMESCALE

**No limescale, longer life-cycle.  
No chemicals, better-tasting water.**

- Vastly improves reliability of your product
- Prolongs the life span of your equipment.
- Proven fact drinking pure water provides huge health benefits.
- All beverages taste better as no chemicals in the water.



ENERGY  
EFFICIENCY



EXTENDED  
LONGEVITY



REDUCED  
MAINTENANCE

**Zero limescale means**



**THE MAJORITY OF  
REPORTED PROBLEMS  
WITH HOT WATER  
PRODUCTS ARE CAUSED  
BY LIMESCALE.**



**RESULT USING  
PURIFIED WATER**

**TALK TO US**

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