



Aquifier safelock filter information



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Why should we choose an abode aquifier tap?

Abode water filters are designed to improve the overall taste, smell and appearance of drinking water and can remove chemical substances from your water supply.

Water filters are the most inexpensive and most convenient method of improving water quality in the home.

Convenience:

- Water is available 24 hours a day at the turn of a handle.
- Your filtered water never runs out, we offer a free filter replacement reminder service to all. Note: If when your tap was installed the registration card was lost please call us, we can quickly add you to our list.
- Abode aquifier filter taps deliver a speedy apx. 2 Litres / Min (depending upon water quality and pressure)

Storage:

- Abode Aquifier taps take up no more room than a conventional mixertap, the compact filter unit is housed under the sink for efficient use of space, keeping the fridge free for food.

Food and drinks:

- Using filtered water when preparing food or drink improves the overall taste, the filters integral scale system will also help to slow the build up on cookware and kettles.

Transport:

- What could be more easy, carrying *56L of water a week from the shop, or a filter cartridge delivered twice a year to your door.

*Based on a family of 4 drinking the recommended daily intake of 2 Litres.

Environment:

- Aquifier filters are an excellent alternative to bottled water; just think of the impact of each family not consuming 1456 plastic bottles each year.

*Based on a family of 4 drinking the recommended daily intake of 2 Litres, bottled in 2L bottles.

Cost:

- The cost of an aquifier tap may be slightly more than a non-filter tap but generally our customers would save the extra cost within the first year. All taps are supplied with the first filter and all required fittings and instructions. Aquifier taps start at just £209 (RRP inc. vat)

	Abode: Aquifier tap	Brita: Classic jug	Evian: Still bottled water	Volvic: Still bottled water
Cartridge life	5,678 L (6 months max)	150 L (4 weeks max)	N/A	N/A
Pence per Litre*	0.56p / Litre	2.2p / Litre	3p / Litre	7p / Litre
Cost per year** (£)	£64	£64.40	£87.60	£204.40

*Prices based on market research 18/3/5

**Based on a family of 4 drinking the recommended daily intake of 2 Litres (2920 Litres total).

The cost of abode aquifier filters also includes first class postage and packing; filters are dispatched the same day of order.

Commonly asked questions:

The water quality is good where we live, do we need a filter tap?:

All water in the UK is regulated and inspected frequently to ensure it is safe to drink, this is taken for granted nowadays, however the taste of the water is not regulated, and depends entirely on where you live.

Even if you are lucky enough to live in an area where the water quality is good, chlorine is still added for safety, the taste and odour created from adding chlorine is the major difference that most people notice or dislike. Abode aquifier filters removes an average 86% of Chlorine taste and odour*.

*based on test data for ANSI / NSF standard 42, values in domestic use will vary depending upon water quality.

- Only 69% of consumers surveyed in March 2000 by the Drinking Water Inspectorate (DWI) are satisfied with the quality of their tap water. That equates to 18 million people who are dissatisfied with the quality of their water.
- The main reason for dissatisfaction was found to be the taste and hardness of their water
- 86% of those surveyed drink water from the tap, 6% bottled water only and 6% milk and alternatives to water. That is approximately 8 million people in the UK not drinking tap water!
- 46% of those who do not drink tap water don't do so because they dislike the taste and or smell. This proportion has not changed since the research was first conducted in 1997.
- 33% of people believe there is a danger to health from things in tap water. Chemicals, bacteria and bugs were the main concerns.

Source The Drinking Water Inspectorate Findings of (Consumer Research March 2000)

Can I use an Aquifier tap with a reverse osmosis (RO) unit?

Reverse osmosis is a process of filtering water very efficiently; whilst RO units and filters are expensive they do filter the water so well that it does leave the water tasting 'bland', however a small number of customers prefer or have need of a RO filtering system.

RO filter can substitute the Aquifier filter cartridge but must use a $\frac{1}{2}$ " pipe for the filtered water outlet, the RO unit must also be capable of delivering the filtered water at the minimum pressure stated for each filter tap model.

Can I use the tap with a water softener?

Yes, Aquifier taps are ideal for use in conjunction with a water softener.

It is not advised to drink softened water due to the increased sodium levels and taste, normally a separate new drinking water tap is added next to the sink. An Aquifier tap will replace and combine the existing kitchen tap and separate drinking water tap all in one.

The hot and unfiltered cold water should come from a softened source; the filtered water must come from an unsoftened source however.

Can I use the filter Aquifier tap with water from any source?

No, in summary the water must be safe to drink from its source. You should only use Aquifier filters on municipally supplied microbiologically safe potable drinking water.

How does the filter reduce the effects of hard water?

The filter contains a harmless chemical that temporarily reverses the polarity of your water, this change only lasts for an hour or two at maximum, this change does not effect the taste of the water but helps to prevent the scale building up on cookware when heated.

The softening capacity of the filter is not its primary function and best suited to low scale areas, in very hard water areas the scale function will fade before the GAC element, customers in a high scale area should either add a second inline scale filter or replace their filter cartridge more often.

Following the tips below will help the anti-scale performance of your Aquifier filter:

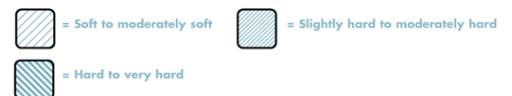
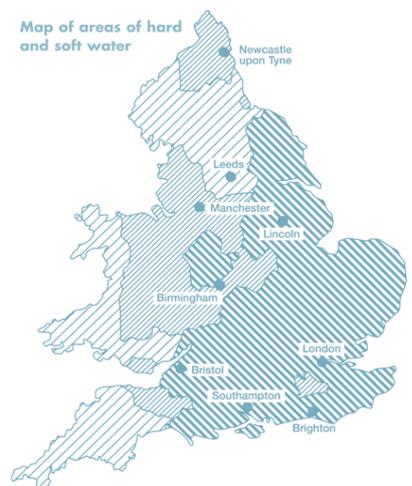
- 1) Empty kettles and pans after use, only use as much water as your need. This is less wasteful and means the water is not allowed to touch the cookware once the polarity charge has faded.
- 2) Reduce the flow rate through your filter, the water will not flow through your tap as quickly but has more time in contact with the filter improving performance
- 3) Flush the tap though for a moment before use, this will disperse any water that is uncharged within the system
- 4) Replace the filter more frequently or add a second in line filter specifically designed to reduce scale (several such additional filters are available on the market)

Hard water is typically scaled using Clarke degrees. The higher the value the more hard the water is. You can find out how hard your water is by either testing your water or contacting your local water provider.

Description	Clarke	Ca	CaCO ₃
Soft	0 to 3.5	up to 20	up to 50
Moderately soft	3.6 to 7	21 to 40	51 to 100
Medium / Slightly hard	7.1 to 10	41 to 60	101 to 150
Moderately hard	10.1 to 14	61 to 80	151 to 200
Hard	14.1 to 21	81 to 120	201 to 300
Very hard	>21	over 120	over 300

Source Essex & Suffolk water.

This map shows a general summary of water hardness in England and Wales



Source DWI.

How does the Aquifier tap range work?

This depends upon the model you choose, for the Atlas and Gosford the hot handle operates hot water in a conventional manner, unfiltered cold water is selected by turning the handle forwards, backwards selects filtered water.

For the Arnon model hot and unfiltered cold water are controlled in the same manner as all single lever taps, filtered water is selected by pushing the handle to the off and cold position using a patented ceramic disc valve.

Each time the filtered water is used we recommend you flush the tap for a moment as you would when using any tap. Flushing will help to cool the water and will remove any water that may have been stood in the tap or the filter.

How long do Aquifier cartridges last?

Aquifier filter cartridges are designed to last 5,678 Litres or 6 months (whichever is first). We recommend the units are replaced periodically in the interests of hygiene and to ensure maximum performance.

If your water quality is particularly poor you may need to replace the filter more frequently however this is rare.

Why have abode changed the Aquifier filter?

In response to customer feedback abode has made several important modifications to your aquifier system.

The changeover to the new system should take about 15 minutes, once completed changing your cartridge each time should only take a few moments.

The new aquifier safelock system has several benefits over your existing filter:

- The safelock cartridge is very quick to fit, simply push the cartridge and turn 90°.
- Changing the filter could not be easier, no tools are required.
- The new filter is now 4 times finer, improving the quality and clarity of your filtered water.

How do I change my Aquifier Safelock filter?

Each replacement cartridge comes with complete instructions on replacing your filter and should take less than 5 minutes, The advice below is a summary of the 4 simple steps.



1) Turn off the water to the filter & run the tap until empty.



2) Twist the filter 90° then pull



3) Push then twist the filter 90°



4) Turn on the water to the filter

How does the Aquifier filter perform compared to other brands?

This is mainly a subjective matter and relies on the person and the original quality of water available; subsequently we feel it is not fair to offer such comparisons.

The following information is available on our Aquifier filter system however:

- **Triple stage filter:**
 Stage 1 - cellulose fibre sediment filter – this pre- filter become progressively finer trapping more and more dirt & sediment and helps to prevent accidental blockage.
 Stage 2 - Granular activated carbon (GAC) – removes unwanted tastes, odours & chlorine
 Stage 3 – Scale crystals – treats the water reducing the effects of ‘hard water’
- **Minimum & Maximum water pressure rating (filter only) 1.8 - 5.5 bar**
- **5 micron rated filter, note a human hair is apx. 70 microns wide.**
- **5,678 Litres or 6 months maximum cartridge life**

- **Supplied with speedfit fittings and isolation valve**
- **Quick action quarter turn Safelock filter change system**

Activated carbon filters are most effective for removing organic contaminants from water. Because organic chemicals are most often responsible for taste, odour and colour problems, GAC filtration can be a good way to improve aesthetically objectionable water.

The GAC is produced by heating a number of carbonaceous substances (e.g. cellulose based substances such as wood or coconut shell) in the absence of air. Creating safe and highly porous and absorbent material.

The cartridge is packed with granules of activated carbon. When water passes through the filter, the numerous carbon granules trap particles and remove dissolved substances in the water. Carbon will also reduce levels of other impurities. These are as follows:

Acetaldehyde (4)	Dyes (5)	Lead (3)	Precipitated Sulphur (2)
Acetic Acid (3)	Ethyl Acetate (5)	Mercaptans (4)	Propionic Acid (4)
Acetone (4)	Ethyl Acrylate (5)	Metal Salts (1)	Propionaldehyde (3)
Alcohols (4)	Ethyl Alcohol (4)	Methyl Acetate (4)	Propyl Acetate (4)
Alkalinity (1)	Ethyl Arine (4)	Methyl Alcohol (4)	Propyl Alcohol (4)
Amonia (1)	Ethyl Chloride (4)	Methyl Bromide (5)	Propyl Chloride (4)
Anines (3)	Ethyl Ether (4)	Methyl Chloride (4)	Radon (4)
Antifreeze (4)	Fertilizers (1)	Methyl Ethyl Ketone (5)	Rubber Hose Taste (5)
Anyl Acetate (5)	Fluorides (2)	Naphtha (5)	Sea Water (1)
Anyl Alcohol (5)	Formaldehyde (2)	Nitrates (0)	Sediment (2)
Arsenic (1)	Gasoline (5)	Nitric Acid (3)	Soap (3)
Benzene (5)	Glycols (5)	Nitrobenzene (5)	Sodium Hypochlorite (5)
Bleach (5)	Heavy Metals (3)	Nitrotouene (5)	Soluble Iron (2)
Boron (1)	Herbicides (5)	Odours (General) (5)	Solvents (4)
Butyl Acetate (5)	Hydrogen Bromide (2)	Oil Dissolved (5)	Sulphonated Oils (4)
Butyl Alcohol (5)	Hydrogen Chloride (1)	Oil Suspended (2)	Sulphuric Acid (1)
Calcium Hypochlorite (5)	Hydrogen Fluoride (1)	Organic Acids (4)	Suspended Matter (2)
Carbon Dioxide (0)	Hydrogen Iodide (2)	Organic Esters (5)	Tannins (4)
Chloral (5)	Hydrogen Perozide (5)	Organic Salts (4)	Tar Emulsion (4)
Chloramine (4)	Hydrogen Selenide (3)	Oxalic Acid (5)	Tartaric Acid (4)
Chlorine (5)	Hydrogen Sulfide (3)	Oxygen (5)	Unwanted Tastes (4)
Chlorobenzene (5)	Hypochlorous Acid (5)	Ozone (4)	THM's (5)
Chloroform (5)	Inorganic Acids (1)	PCB, s (5)	Toluene (5)
Chlorophenol (5)	Inorganic Chemicals (1)	Pesticides (5)	Toluidine (5)
Chlorophyll (4)	Insecticides (5)	Phenol (5)	Trichlorethylene (5)
Citric Acid (4)	Iodine (5)	Phosphates (0)	Turpentine (5)
Cresol (5)	Isopropyl Acetate (5)	Plastic Taste (5)	Urine (2)
Defoliant (5)	Isopropyl Alcohol (5)	Plating Wastes (3)	Vinegar (3)
Detergents (3)	Ketones (5)	Potassium (4)	Xanthophyll (4)
Diesel Fuel (5)	Lactic Acid (4)	Precipitated Iron (2)	Xylene (5)

Key to the above list:

- 5 = EXCELLENT a proven application
- 4 = VERY GOOD a proven application
- 3 = GOOD acceptable results
- 2 = FAIR limited application
- 1 = POOR not a recommended use
- 0 = Not an application for carbon



Can I use a 'chiller' unit in conjunction with the tap?

Yes, Several companies manufacture refrigeration units to cool the water before it passes through the filter, this can be useful during our brief summer months when the incoming water temperature rises.

The chiller unit must also be capable of delivering the filtered water at the minimum pressure stated for each filter tap model and should use $\frac{1}{2}$ " pipe for ease of connectivity.

For impartial information visit:

The sites below contain lots of information on water quality, possible contaminants and water filtering products.

www.dwi.gov.uk/ - Government drinking water inspectorate.

<http://www.britshwater.co.uk/> - Leading trade advisory body.

The information provided is designed to be a fair and honest representation of Aquifier filter tap products, it is written solely for the use of Abode customers and its representatives. Our policy is to continually improve the quality and specification of our products, accordingly we reserve the right to amend specifications without prior notice.