



March 2023

Welcome to Adveco's March round up of news and guidance for more sustainable water heating. This month we turn our attention to some of the basics that are proving to be problematic as systems migrate to lower carbon electric alternatives, hot water cylinders as a key part of your renewables strategy and give you a sneak peak at a valuable new service coming from Adveco to improve hot water design...

Building Sustainability Into Hot Water Systems

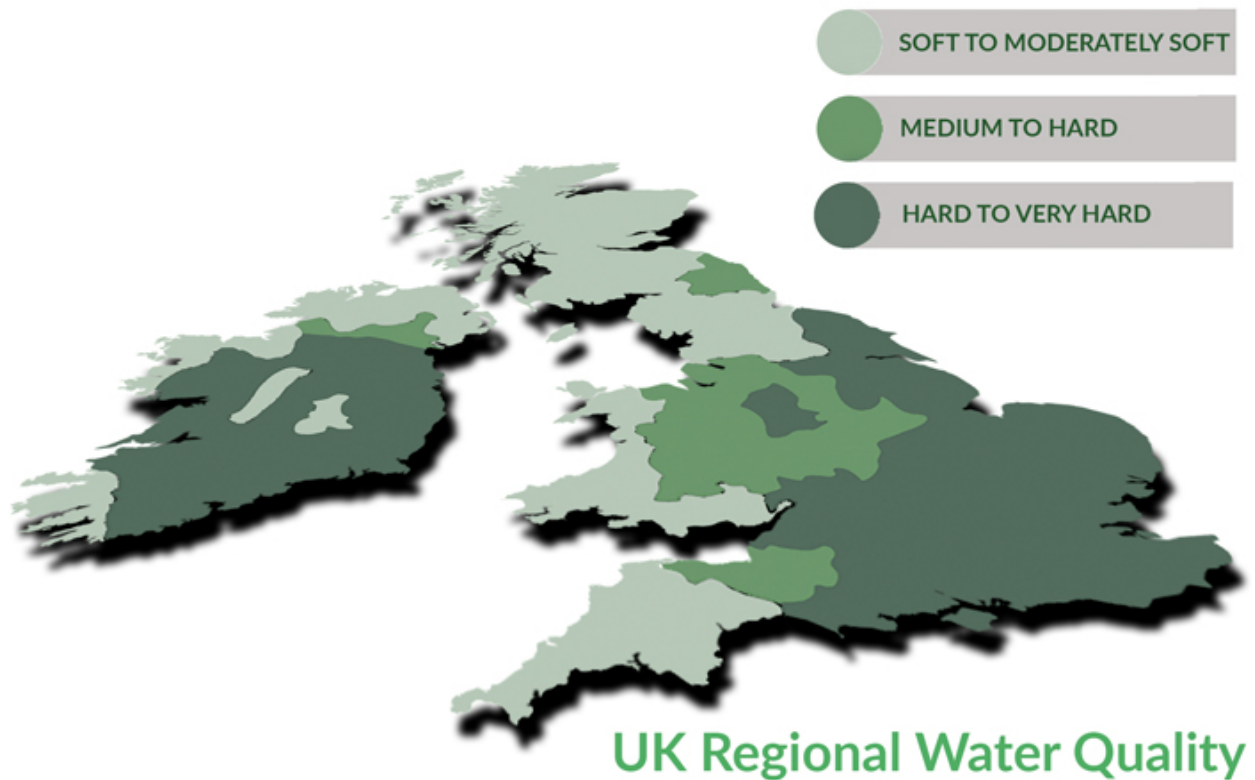
Whether a new building or refurbishment of an existing property, when it comes to designing a more sustainable hot water application for a commercial project the same basic questions will always be your starting point.

Is the location prone to hard or soft water?

Do you want gas or electricity to be the energy source for heating?

Will the system be direct or indirectly heated? What is your source of preheat?

The one thing that cannot be altered is the hardness/softness of the source of water supply, so understanding the implications and best options for addressing likely issues should be the first thing on your agenda when designing a new hot water application.



Soft water

Over time most metals will deteriorate or corrode when in direct contact with any water, rusted iron being the most familiar, but it can also affect copper, lead, aluminium, zinc, and numerous other common metals.

Corrosion is a complex phenomenon, and no single dissolved substance is responsible for making water corrosive. There are several factors that can increase the likelihood of corrosion, especially the natural softness of water. This becomes a real issue in water heating and distribution systems where metal appliances and pipes are continuously being attacked to the point of physical failure.

If your premises are located in a soft water area then you need to be aware of the threats of corrosion to your system, and small leaks in your metal plumbing components could well be a sign of a more serious problem.

Read more about recognising the causes of corrosion, testing and prevention through the use of either glass-lined or stainless steel hot water cylinders and water heating appliances.

[INTRO TO CORROSION](#)

[TESTING FOR CORROSION](#)

[PREVENTING CORROSION](#)

Hard water

With many companies considering moving from gas to electric as part of their net zero strategy, it has never been more important to understand the detrimental issue of rapid limescale generation associated with direct electric water heating.

Adveco has a useful guide available that explains the threat of limescale if ignored and considers the use of water softener and scale inhibitors. Our preferred and lower cost option is to introduce an electric boiler, such as ARDENT, in an indirect 'sealed loop'. An approach which minimises scale generation, vastly improving reliability and drastically reducing maintenance demands.



GUIDE TO TACKLING LIMESCALE IN ELECTRIC DHW SYSTEMS

Hot Water Storage & Use



Hot water storage is an essential part of any renewable strategy where energy input needs to be stored or deployed as and when required. Hot water cylinders, whether deployed as buffer storage, direct or indirect water heaters (calorifiers) provide multiple options for application design. With indirect heating you gain a key advantage of separating the supplies, reducing risks of external contamination such as a build-up of scale in hard water areas or the corrosive effects of soft water.

[Read more about the advantages of hot water cylinders as part of a sustainability strategy...](#)

HOT WATER CYLINDERS



New Faces

We are very pleased to announce that the sales team has expanded with the addition of sales engineers Vipushan Kulendrarajah and Marc Mtakula. Marc & Vip join Ashleigh and are your first point of call if you have general sales enquiries or require a particular product for your project.

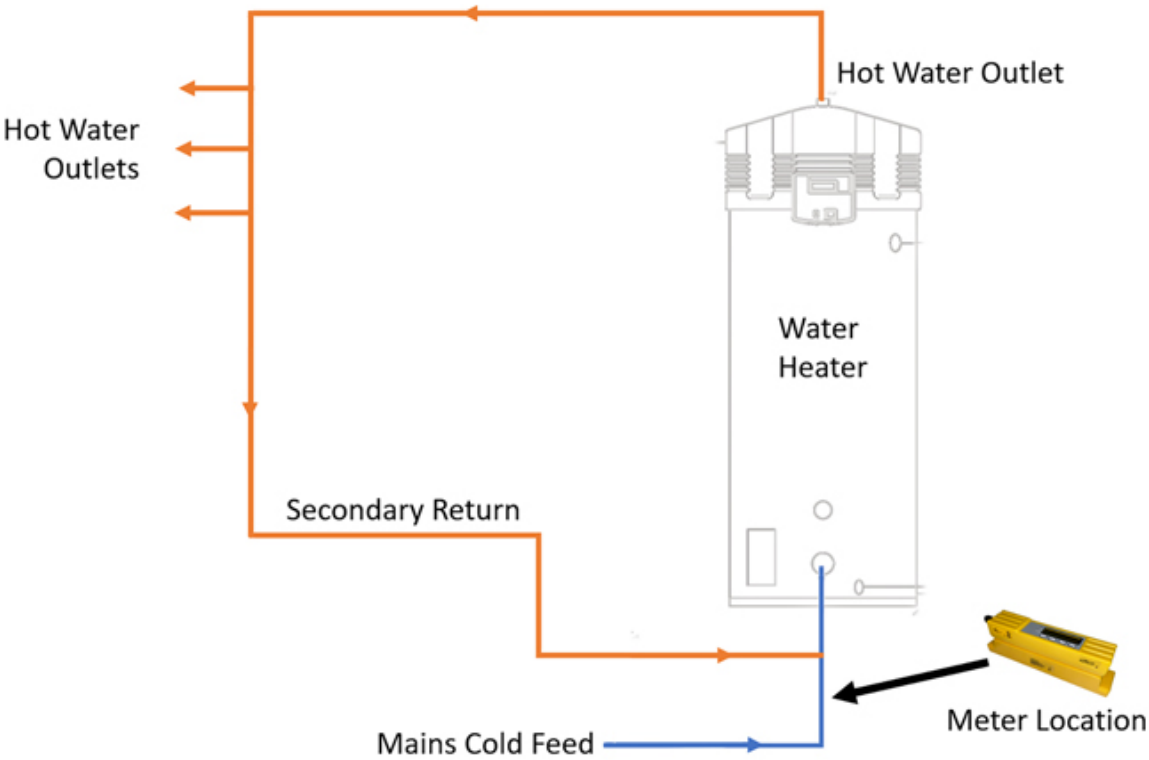
If you are looking for our specialist sales support in your region please visit the contact section of our website...

REGIONAL SALES

Mining For Data Gold

Finally, we are excited to give you the first look at Adveco's new live metering service. This temporary, simple to install, non-invasive onsite process generates consistent 24/7 data on existing hot water systems to accurately understand actual demands. This enables us to provision accurate sizing and optimised system recommendations for commercial properties intending to replace legacy gas systems with more sustainable electric applications.

Contact your sales representative for more information or register interest by completing one of our enquiry forms.



REGISTER INTEREST

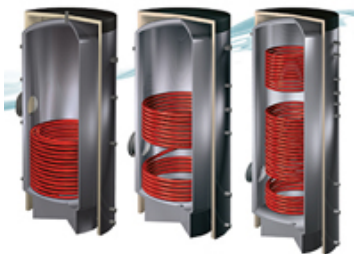
Hot Water Cylinders From Adveco



GL Range

GL family of low-cost carbon steel storage tanks offer a selection of off-the-shelf vessels for commercial hot water (DHW) projects requiring direct electric heating, buffer storage, indirect heating or preheat.

FIND OUT MORE



ATSx

The Adveco ATSx hot water tanks offer a range of models from 200 to 1000 litres at 10 bar as standard. This range of stainless steel vessels is suitable for use as hot water buffers, and single, or dual coil calorifiers as required for the application.

FIND OUT MORE



SSI SST SSB

The Adveco range of stainless steel hot water tanks from 200 to 2500 litres. The stainless steel range is suitable for use as hot water buffers, single coil, or dual coil calorifiers as required for the application.

FIND OUT MORE

Adveco 2023 Product Guide

Fully updated for 2023, this useful reference guide provides a full summary of Adveco's current product portfolio. Don't forget these are just the start of our offering, acting as the buildings blocks for your bespoke hot water systems...

2023 PRODUCT GUIDE



Discover Adveco's expanding range of low carbon and renewable products

[FPi R32 monobloc Air Source Heat Pump](#)

[L70 Air Source Heat Pumps for larger projects](#)

[FUSION pre-sized hybrid hot water systems](#)

[Solar Thermal Drainback Systems](#)

[ARDENT Electric Boilers](#)

[Hot Water Cylinders, Indirect Water Heaters, Calorifiers & Buffers](#)

[Commercial Gas-Fired Water Heaters](#)

[Standalone Heat Recovery from Chillers](#)

[Offsite Constructed Packaged Plant Rooms](#)



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