

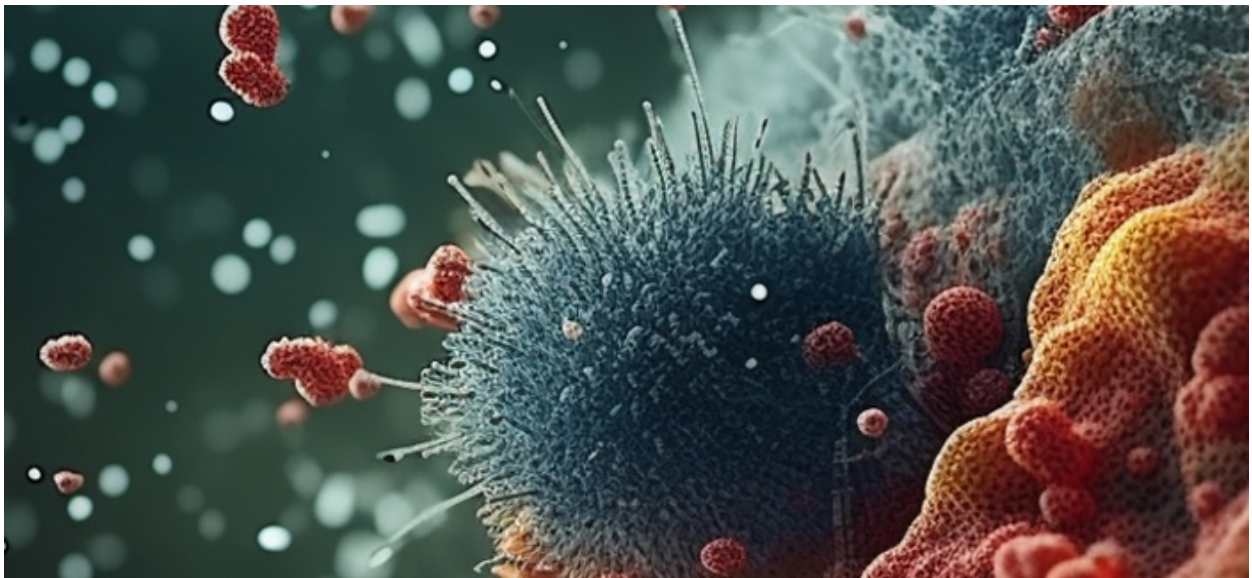
ADVECO NEWSLETTER

October 2023

Welcome to Adveco's October newsletter,

The run up to Christmas is always a busy period for any company operating in hot water and heating. System demands increase as the Autumnal weather takes hold, and lack of regular servicing or maintenance quickly takes its toll on older systems. We always encourage regular servicing because it acts as insurance for what are typically business-critical demands. This month though we also consider how a well maintained system can impact on air quality with new regulations coming into force. It's also a busy time for events and awards and we hope to see some of you in the coming weeks as our technical and sales teams will be out and about and more than happy to chat about your project needs. And the UK's commitments to net zero seemed to be back pedalling as the prime minister's planned speech on the subject was leaked to the consternation of many. We consider just how impactful these changes are likely to be on the commercial built environment...

Committing To IEQ When Operating Gas-Fired Water Heating



Despite hybrid working becoming firmly entrenched across the UK, indoor air quality (IAQ) remains an especially important issue within commercial buildings. The World Health Organisation (WHO) guidance on air quality has advised member states to consider air pollution to be as big a threat to human health and well-being as climate change and adjusted almost all its previous maximum target levels for airborne pollutants downwards. It linked long-term exposure to even relatively low concentrations of ambient and indoor air pollution to lung cancer, heart disease, and strokes.

In the wake of the Covid-19 pandemic new UK standards (BS40102-1) were deemed necessary, providing recommendations for measuring, monitoring, and reporting indoor environmental quality (IEQ) in all types of non-domestic buildings. It includes an evaluation and rating system for air quality, lighting, thermal

comfort, and acoustics, to help identify retrofit and renovation work required to improve the health and well-being of occupants.

To meet the new standard organisations will need to tackle conditions that have a direct impact on human health including humidity, and excessive levels of CO₂, CO, NO₂, volatile organic compounds (VOC), airborne particulates and mould.

Adveco has for many years operated a system of checks to ensure the comfort and safety of buildings, from initial system commissioning, to ensure correct and safe installation of appliances, to annual warranty servicing. Commissioning an application upon installation is especially critical if gas-fired appliances are an element of the hot water system. One of the most common reasons for a system to fail commissioning is the incorrect installation of the flue, often venting too low or too close to a building's windows. The commissioning process identifies such errors helping to ensure control and safe removal of CO₂ and NO_x emissions from proximity to building users.

IEQ & WATER HEATING

Water Heating Cylinders For Commercial Buildings



Today Adveco provides the single most comprehensive range of commercial-grade cylinders for domestic hot water (DHW) and heating applications for the built environment. Whether specifying an off-the-shelf system, or something more bespoke, Adveco's direct electric and indirect water heaters and buffers are designed for projects requiring large volume storage of water at high temperatures.

Besides the cylinder, DHW and heating systems will require an additional primary heat source, such as an electric water heater or gas boiler. Working as a buffer and storing the hot water, calorifiers and buffer tanks reduce the operational demand placed on the primary heat source saving energy, reducing cost and lowering emissions. Cylinders offer a choice of opening or mounting flanges to house primary or back up immersion heaters offering redundancy for assured business-critical operations.

Heating coils are offered in multiple sizes and capacities, high power variants, may be fixed or independent, with both single and twin options that support the use of multiple heat sources.

The choice of options ensures support for a wide variety of applications that can include both gas-fired and electric boilers as primary heat sources. As there is no fluid mixing during thermal transfer indirect water heaters and buffer tanks can be made far less prone to destructive limescale deposits experienced in direct-heated systems in harder water areas. We have a quick comparison chart now available to help guide you on the right cylinder for your project

UK Net Zero – A Moment Of Pragmatism Or Shame?



Prime Minister Rishi Sunak has formally announced a shift in many of the timelines previously set for achieving net zero by 2050. Many claim this is a weakening of some of the government's key green commitments and a major policy shift. It is now committed to reaching UK net zero carbon emissions by 2050 but in a "more proportionate way".

The aim of UK net zero is to take out of the atmosphere as many greenhouse gas emissions – such as carbon dioxide – as it puts in. Mr Sunak intent is for the UK to continue as a world leader on net zero, but he is arguing that Britain has over-delivered on confronting climate change and that other countries need to do more to pull their weight. This realism does not, however, mean losing ambition or abandoning commitments.

Changes to core policy or commitments on UK net zero include:

- Pushing the ban on the sale of new petrol and diesel cars from 2030 to 2035.
- Target plans to phase out the installation of gas boilers by 2035 see targets weakened to 80% phase-out by that year.
- No new energy efficiency regulations on homes for homeowners and landlords who fail to upgrade their properties to a certain level of energy efficiency will no longer be fined as planned.
- The 2026 ban on off-grid oil boilers will be delayed to 2035, with only an 80% phase-out target at that date.
- No new taxes to discourage flying, no government policies to change people's diets and no measures to encourage carpooling.
- Cease of plans for 'seven bin' domestic recycling strategy.

In a statement, Prime Minister Rishi Sunak said, "For too many years politicians in governments of all stripes have not been honest about costs and trade-offs. Instead, they have taken the easy way out, saying we can have it all. We are committed to Net Zero by 2050 and the agreements we have made internationally – but doing so in a better, more proportionate way. Our politics must again put the long-term interests of our country before the short-term political needs of the moment."

Lord Zac Goldsmith, Conservative peer and former minister responded that this was, "The moment the UK turned its back on the world and on future generations. A moment of shame."

Many commentators have already drawn the conclusion that Sunak's statement is a pointed barb at former Prime Minister Boris Johnson's policies which were formalised at COP 26. Conservative MP Craig Mackinlay, who chairs the net zero scrutiny group, said he was "Pleased to see some pragmatism," from Mr Sunak, and that moving back dates for net zero targets "will take pie in the sky 'greenwash' measures out of clearly unachievable deadlines".

The government's commitment to UK net zero has consistently come under fire, and we have commented on the general lack of support or advice given to the commercial and public sectors, along with too great an emphasis on specific and often limited technology in terms of commercial application. This became most obvious in terms of the drive for heat pumps which was focussed on domestic rather than commercial deliverables, despite the high proportion of commercial buildings with high daily energy demands. This has driven our call to accept the hybrid approach to commercial water heating, to not only deliver carbon reduction but make efforts to control spiralling costs reported by many who have followed government recommendations on a singular technology approach.

For the past year, the lack of clarity on hydrogen has been a particular sticking point, especially given the phase-out dates for new gas-fired boiler installation. Any weakening in the stance on domestic gas-fired appliances can only help the potential transition to blended hydrogen, but we continue to advocate the application of hydrogen as part of the mix of options for commercial hot water in the mid- to long-term.

READ ON FOR MORE ON HYDROGEN CONSULTATION

Adveco Recognised For Net Zero Impact Award



Adveco has been named a finalist in the Net Zero Impact category of the Heating & Ventilation News (HVN) Awards 2023 for its Live Metering tools and design. The Net Zero Impact award recognises initiatives in carbon reduction, energy efficiency or embodied carbon which set groups or individuals on a path towards net zero.

Live Metering was conceived by Adveco in response to the London Fire Brigade's (LFB) strategic project of station refurbishment to deliver net zero across its built estate. "Our close work with our public sector partners, especially the LFB, to deliver a truly practical response to the many issues facing those wishing to decarbonise legacy water heating infrastructure has again impressed industry judging, selecting us as one of this year's finalists for the Net Zero Impact award. Year-on-year selection as a finalist in the 2023 HVN Awards is a real endorsement of our continuous programme of technical development and innovation. From both a product and services perspective, this has characterised Adveco's drive to continue being the

hot water specialist for commercial and public sector building projects in this new more sustainable age,” said Bill Sinclair, Technical Director, Adveco.

Live Metering

New to The Team

We are pleased to welcome Karim Kaci to the Adveco team. Karim joins us as CAD Technician, working on a programme to revise and update our technical drawings library. This project will ensure consultants and contractors have all the necessary documentation on Adveco designed applications for specification and build.



Big Sustainability Expo

3rd October, Ageas Bowl, Southampton.

Now in its 8th-year, the Expo brings professionals from large corporations and SMEs, non-profits, charities & public sector together to explore the latest in sustainable approaches to business. Join Martyn Pooley, Account Sales Manager, London, South East, East Anglia who hosts Adveco on stand 5.



Building Services Forum

5th Oct, Chelsea harbour hotel, London

A prestigious one-day event providing a vital platform for building services professionals to learn and network, share ideas and solutions. Adveco's technical director Bill Sinclair will be presenting on the topic of solar thermal. UK Sales Manager Greg Brushett will be available to discuss your projects.



Kent Registered Managers Care Conference

10th October, Clive Emson conference Centre, Maidstone, Kent.

Join Business Development Manager Vince Ng who will be hosting the Adveco stand at the conference, so come and discuss options for new build and refurbishment of existing care properties

[MORE INFORMATION](#)

[MORE INFORMATION](#)

[MORE INFORMATION](#)

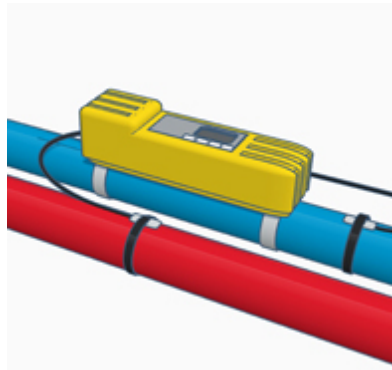
Sustainable Electric Hot Water



FUSION

Adveco's FUSION packaged electric water heaters offer a range of low-carbon, all-electric applications for commercial projects with a wide choice of pre-sized variants. FUSION E electric boiler, cylinder & pipework. FUSION T adds FPI32 ASHP and advanced controls. FUSION E plus & T plus incorporates electric immersion for greater resilience when hot water is a business critical function of daily operations.

[FIND OUT MORE](#)



Live Metering

Data gathering, sizing and bespoke system recommendation for commercial properties intending to replace legacy gas systems. Live Metering supplies business-critical information to create more sustainable applications that are optimised to meet all hot water storage and delivery demands.

[FIND OUT MORE](#)



ARDENT Electric Boiler

ARDENT is designed to serve as an indirect water heater or heating system. Wall-hung and floor standing variants for those seeking to avoid a reliance on gas energy supplies. In hard water areas the ARDENT electric boiler can be used to dramatically reduce the costly build up of damaging limescale.

[FIND OUT MORE](#)

Adveco 2023 Product Guide

Now updated to include the new Adveco FUSION system and Live Metering service, our 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

[Live Metering.](#)

[Solar Thermal Systems](#)

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

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

[FUSION packaged electric water heaters](#)

[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](#)



01252 551540



Enquiries@adveco.co

Adveco Ltd. is the hot water specialist with more than 50 years of expertise in the building service industry. Adveco Ltd 2023. Unit 7 & 8 Armstrong Mall, Southwood Business Park, Farnborough, Hampshire, GU14 0NR