



January 2023

What's Trending For 2023?

Happy New year from all the team at Adveco. But what will 2023 be bringing?

This coming year you can expect to read more about the advantages of deploying heat pumps. Installation figures certainly need to ramp up quickly if government met targets are to become a reality. New developments in higher efficiency refrigerants with ever lower global warming potential, in particular R290, will enable higher temperatures to be achieved with less system investment increasing the attractiveness of the technology.

Solar systems, especially solar thermal for hot water provision, has seen a dramatic increase in interest, notably when fuel prices began to spike during late 2022. This well understood, proven technology is not only low maintenance, it demands a smaller footprint on roof tops compared to like-for-like photo voltaic (PV) systems. Solar thermal also has the advantage of being a truly renewable system so its an instant win for net zero projects.

Finally there is movement from the government on hydrogen replacement, with ministerial consultation up and running through until March, at which point there are hopes for a defined policy on this potentially critical net zero energy resource. Despite further funding announcements, investment remains low compared to the figure required to deliver modernised, national infrastructure. Despite the hyperbole, don't expect things to move fast, and domestic applications, as with heat pumps, are likely to be the focus, despite huge energy demands from industry, transport and the commercial sectors. Gas therefore remains very much in the mix for the next decade as a prime option for water heating in the commercial refurbishment projects.

Offsite construction will continue to trend upwards in 2023 and you can read more about the application of this approach to system building for hot water below.



The path to net zero will, without doubt, embrace all of the above, alongside new technologies and methods of harnessing the best features to reduce carbon and better manage costs. At Adveco, we will continue to explore these new opportunities and develop practical applications to leverage the best from your investment. Our work, we are proud to say, has again been recognised by the industry's media, with Adveco being awarded this month the Heating & Ventilation Company of the Year Award by Building & Construction Review. Its another great accolade, and a terrific way to start the year. For more than 50 years Adveco, and acting as A.O. Smith Water Heaters before that in the UK, has always been, and remains a safe pair of hands when it comes to supporting your projects.

For more in depth analysis check out our regular blog pages, and make sure you download our 2023 Product Brochure which is available now.

[READ OUR BLOGS](#)

Vince Ng Joins The Adveco Team

We are very pleased to announce the appointment of Vince Ng as Adveco's new business development manager. Vince will be driving national sales accounts, supporting Adveco's portfolio of national accounts, including key brands across retail, hotels, restaurant chains and the public sector.

He will also be leading our continuing professional development (CPD) programme. Our existing CPDs already cover sizing domestic hot water systems and maximising contributions from solar thermal. These are now joined by a new CPD, Best Practices for Electric-Based Commercial Hot Water Systems.

As organisations look to alternatives for securing low-carbon hot water this new CPD session considers the options of achieving net zero in buildings by cutting carbon emissions through the electrification of water heating. It covers the specification of electric water heating, direct electric and low carbon methods including solar thermal and, in particular, air source heat pumps. This will provide an understanding of the challenges and issues surrounding commercial electric water heating and the importance of pairing kW to litres when designing a system and provide a clear overview of the next stage in the technological development of heat pumps.

If you are interested in arranging a CPD seminar in person at our training facilities in Farnborough, at your offices or online please get in touch and Vince will be able to support you with arrangements.



BOOK A CPD SEMINAR

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





Offsite System Construction For Commercial Hot Water

The most valuable assets any commercial building can offer is space. Internal spaces to grow, develop and drive advantage in business. This leads to a balancing act between granting usable, comfortable space for staff and customers, while meeting the demands of a building's critical hot water and heating systems.

Plant rooms, or boiler houses as they were known, vary from purpose-built to jury-rigged spaces used to accommodate heating and hot water systems. Basements are typically repurposed in older buildings, whilst it is not unusual to find them tucked in amongst other rooms creating a mixed-use setting. Wouldn't it be advantageous to separate such building services and relocate them away from those using the building whilst improving the efficiency of the system for a host of benefits including lower operational costs and reduced emissions?

Simply upgrading to a new boiler or electric water heater can deliver notable efficiency improvements over models from just 10 years ago, and today's modern appliances pack that into much more compact, space-saving formats. So, you could gain greater capability from a smaller footprint in your plant room, and potentially reclaim a few square meters. But what if you could reclaim the entire plant room?

Refurbishing plant to a new location may sound drastic, but that needn't be the case. Increasingly the HVAC industry has embraced the idea of offsite construction, creating modular units or systems that are pre-installed and ready for relatively quick and simple connection once delivered to a site.

Supporting growing hot water and heating demand, combined with the limitations of incorporating large scale plant room space within new or existing buildings, Adveco has been creating new designs for application built completely into a prefabricated plant room space.

The GRP enclosures incorporate a wealth of choice, from gas to hybrid applications deploying heat pumps or solar, through to increasingly popular all-electric configurations, all with intelligent control system for optimised performance and continuity of service.



Faced with the narrow construction windows, the completed plant room can be placed straight from the delivery vehicle or craned into position on to a roof on day of delivery with final electrical and plumbing connections completed in a matter of days.

Flat rooftops are truly 'dead space' for most buildings, but they provide a broad opportunity to relocate heating and hot water plant safely and more securely. They are also excellent for positioning hybrid systems that integrate renewable and sustainable technologies. Air source heat pumps (ASHPs) gain unimpeded airflow, and operating noise, though relatively low, now becomes almost unnoticeable to those on the ground. The flat roof is also perfect for the installation of solar thermal systems, where a framework is constructed to align the collectors for optimal energy collection. By locating the plant room on the roof, pipe run from the collectors is minimised as are thermal losses, so you get more energy for your investment.

These are just a few examples of where Adveco's application design, system prefabrication and expertise in hybrid and renewable technology can help maximise underutilised space.

[READ MORE ABOUT OUR PACKAGED PLANT ROOMS](#)

Compact Water Heating From Adveco



AD Wall Mounted Water Heater



Hydrogen 20% Blend Ready Water Heaters



ARDENT Electric Boilers

AD wall-mounted is a range of 'A' class energy efficient water heaters available in three rated heat outputs, 27 kW (AD16), 33 kW (AD22) and 61 kW (AD37). When combined with a water cylinder, AD wall-mounted helps meet peak withdrawals without increasing the water heater power.

FIND OUT MORE

The the ADplus & AD ranges of high-power gas-fired condensing water heaters are all 20% hydrogen blend ready without the need for any modification for commercial DHW or heating projects. This provides a practical choice today, especially for refurbishment projects, while future proofing systems in advance of a greener gas grid.

FIND OUT MORE

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

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](#)

[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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