

# ADVECO NEWSLETTER

Welcome to Adveco's November newsletter,

It's already beginning to feel a lot like Christmas! We have been receiving plaudits and awards for our new products, the shelves are stacked high, certainly in our warehouse, and there are plenty of new shiny products to add to your list.

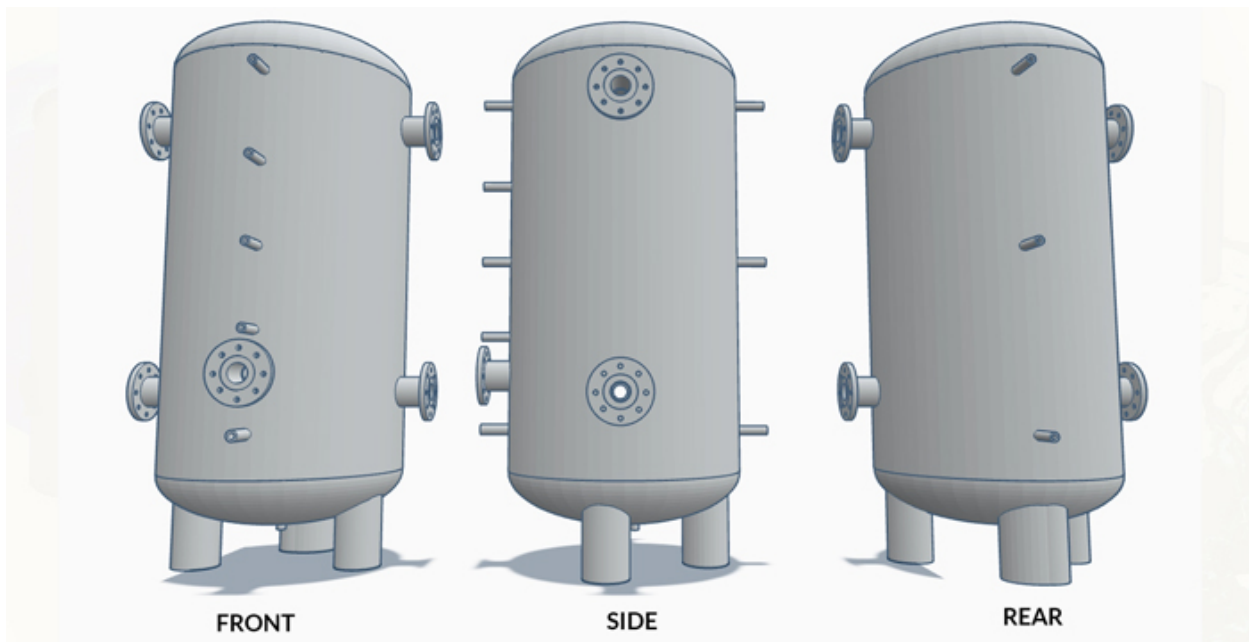
Both our FUSION electric water heater range and Live Metering service were recently singled out at the Heating & Ventilation Review (HVR) awards, both receiving highly commended trophies against some extremely stiff competition. We were also a finalist at the Energy Awards and Big Sustainability Awards with Live Metering last month, and the service has also been named finalist in the HVN Awards and Energy Saving Awards to come.



We have also completely revised our premium MSS cylinder range with particular focus on their use in commercial DHW systems based around heat pumps. And for installers there is new information on fitting the FUSION products.

We also turn our attention this month to the future of office buildings and the changing demands for hot water to provide sustainable comfort. And looking forward to the end of November we preview COP28 taking place this year in Dubai. It marks a significant milestone with the completion of the first full assessment of the Paris Agreement begun at COP26 with high hopes it will advance methods and financing to tackle global climate change...

## **MSS Cylinder Range For Heat Pump Based DHW Applications**



Introducing the next generation of MSS cylinders for heat pump based DHW projects in commercial buildings. MSS is a specialised range of premium carbon steel primary system vessels designed to serve a diverse range of water and space heating applications which require an inertia tank or energy storage vessel.

The MSS range offers ten models from 300 litre to 5000 litre capacity. Each vessel features multiple large, high-capacity connections as standard at high and low levels. These tappings enable the tanks to be used with multiple return flow temperatures or multiple heat sources, such as renewables or low- and high-grade heaters. This makes MSS vessels ideal for hot water applications using heat pumps operating at lower temperatures as greater flow is needed to raise the kilowatts of the system.

MSS also features additional connections at mid-level providing greater versatility to cater for a wide range of system applications. Designed with a low maximum height (1.87m to 2.265m with insulation) MSS despite its larger volume is easier to install in plantrooms, especially those with limited clearance. The vessels also lend themselves to incorporation into packaged plant rooms to leverage the advantages of offsite construction, which include production oversight for improved system quality and rapid delivery to install times. Due to the lower vessel height, MSS incorporates three internal baffle plates to improve thermal separation within the vessel itself.

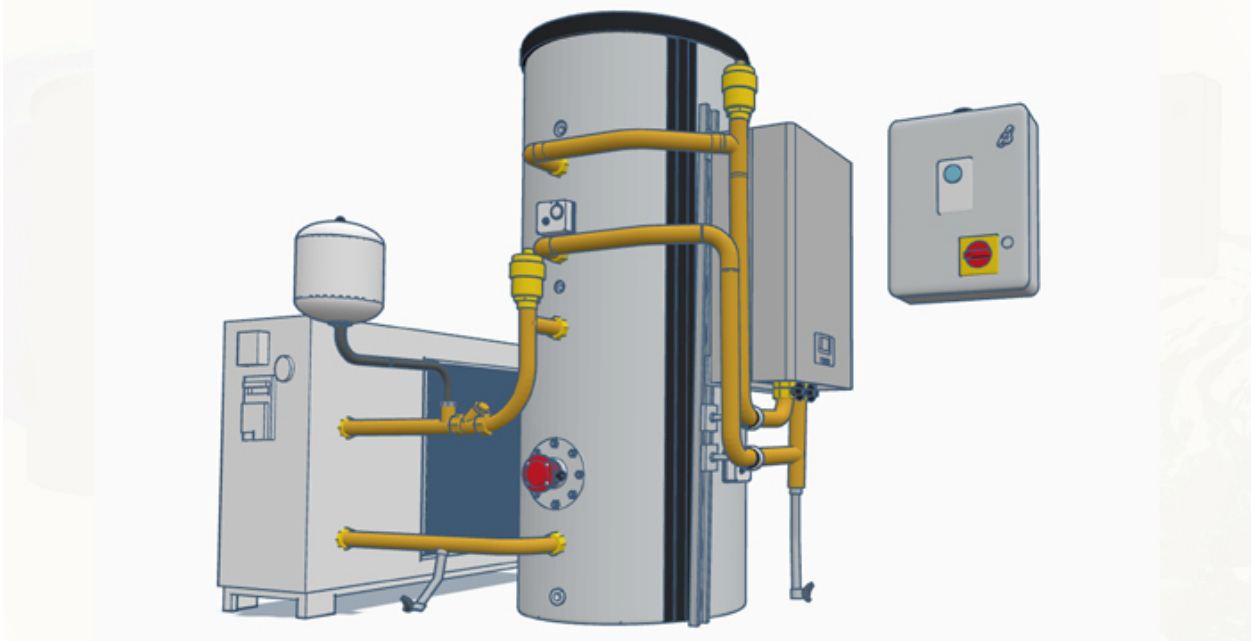
The Adveco MSS range is suitable for use with standard working pressures of up to 6 bar. For projects requiring higher pressure, such as multi-storey buildings with basement plant rooms, 10 bar versions are available on request in all sizes. All MSS vessels support working temperatures of up to 95°C.

Multiple sensor pockets at all levels provide straightforward integration of controls or BMS sensors. An inspection/clean-out flange allows for ease of service or maintenance.

100mm removable insulation is supplied with every vessel and Adveco can provide optional ancillaries including control and overheat thermostats, automatic air vents, and gauges.

The versatility of the Adveco MSS with its multiple large capacity connections means that it is capable of meeting the large majority of system requirements, whether for DHW, central heating or cooling, negating the need for bespoke cylinder manufacture which is both more expensive and time-consuming. For projects specifying larger energy storage vessels MSS offers everything you need at a ready-to-go price.

## **FUSION Electric Water Heater Range Installation Manual Available**



For those installing the new award-winning range of FUSION electric packaged electric water heaters and renewable water heaters a brand new manual is available this month to walk you through the more simple and faster installation process for commercial projects with a wide choice of pre-sized variants.

Next-generation FUSION-E systems harness Adveco's ARDENT electric boiler and high-pressure ATSI single-coil stainless steel cylinders to deliver a compact, highly-efficient, low-carbon electric water heater.

FUSION-T adds Adveco's FPi32 Air Source Heat Pumps, dedicated controls and metering, for further carbon reduction and operational cost savings.

FUSION -Eplus and FUSION-Tplus meet the needs of organisations where hot water supply is a critical operation function, with the addition of an electric immersion and automation controls for assured supply.

### **PRODUCT MANUALS**

## **Preserving The Future Of UK Office Space**



As the specialist in the design and supply of sustainable hot water applications, we can help address the sustainability of office spaces today. Unless a new build, which will be electrical-based, most refurbishments will look to either improve on existing gas systems or aim to completely replace them with electrical alternatives, typically heat pumps and/or electric heating with a boiler.

Office space in England contracted by an estimated 18m square feet during the Covid-19 pandemic, the single largest shake-up of the sector has ever seen. Unsurprisingly developers reacted warily as occupancy levels remained low, and many older offices which no longer met the demands of a modern employer or stringent environmental standards were decommissioned or transferred to domestic applications. This has been especially pronounced in smaller cities and away from central business districts.

Despite this, rents for prime offices – classified by good location, accessibility, and energy efficiency of the premises – are increasing in all major UK cities. This is being driven by developers reacting to pressure to make more versatile office spaces, supporting the growth of agile working and greener by supporting shifting work patterns and meeting new environmental regulations. These workspaces demand fully equipped premises – often with reception, meeting rooms, dedicated cloakrooms and shower facilities, break rooms, on-premises cafés and canteens – and a wider working environment that addresses sustainability in line with corporate social responsibility.

With concerns over the rise in emissions – and their effects on the global climate – larger, more forward-looking organisations are already realising and embracing the importance and value of embedding sustainability into growth & development strategies. This distinguishes them from the majority, however, which rely on legacy office space. Recent studies suggest more than 70% of the UK's current office stock will still be in use by 2050, the majority of which currently suffer from a lack of retrofit needed to make them more energy efficient, comfortable, and attractive to workers. These ageing buildings will be directly challenged by modern shared working spaces and should be recognised as becoming a primary cause for employment churn in the near term.

Talk to Adveco today about introducing more sustainable hot water systems into your office buildings to immediately address the environmental concerns and comfort of workers.



## Facing The Global Challenge Of Climate Change - COP28



The 28<sup>th</sup> session of the Conference of Parties (COP28) is the 2023 United Nations Climate Change Conference. Inaugurated in 1995, COP is an annual opportunity for signatories to the United Nations Framework Convention on Climate Change (UNFCCC) to debate solutions to climate change.

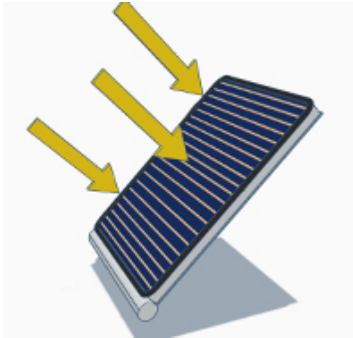
The key outcome of the COP process has been the 2015 Paris Agreement, signed by 195 parties, which saw the agreement to cut global greenhouse gas emissions to ensure global surface temperatures remain below 2 degrees Celsius (ideally 1.5 degrees Celsius) in order to prevent dangerous climate change.

COP26, which was held in Glasgow, built on the Paris Accord, with renewed commitments by signatory governments to reduce their greenhouse gas emissions. 190 countries agreed to the phasing out of coal for energy production which is widely regarded as one of the fastest and relatively easy ways to cut carbon emissions. Timeframes for emissions reduction targets were also established, though crucially not legally binding.

It was hoped that COP27, held in Sharm-el-Sheikh, Egypt, would build on this success and push targets to reduce greenhouse gas emissions even further as UN reports suggest current commitments of signatories to the Paris Agreement don't go far enough to successfully limit global warming to under 1.5 degrees Celsius (vs. 1990s levels). COP27 was feted for the creation of the Loss and Damage Fund, primarily aimed at helping developing countries cover the cost of damage caused by natural disasters related to global warming, such as wildfires, rising sea levels, heatwaves, drought, and crop failure. Questions over how quickly the fund will be able to get up and running, and how effectively it is able to function remain, clouding initial jubilation.

COP27 was also characterised by a lack of commitment to completely phase out fossil fuels. The final commitment stated a need to “accelerate efforts towards the phase-down of unabated coal power and phase-out of inefficient fossil fuel subsidies.” This has been a major point of contention for the green lobby. As a result, Cop27 was greeted with an equal mix of celebration and frustration, so much now rests on Cop 28 being seen as a success, but it poses significant challenges.

## Sustainable Electric Hot Water



### Solar Thermal

A proven and extremely reliable technology, solar thermal offers a clear path to reducing CO<sub>2</sub> emissions and offsetting expensive electric costs for organisations using large amounts of hot water. Adveco's collectors with drain back provide a low maintenance option to help achieve sustainability goals.

[FIND OUT MORE](#)



### Air Source Heat Pumps

The FPI32 & L70 ranges of commercial Air Source Heat Pumps (ASHP) for the provision of preheat in domestic hot water applications. Adveco ASHPs can be supplied as a part of a bespoke hybrid, or all-electric system, as well as an element of a prefabricated plant room system.

[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

Fully updated For November 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](#)



**2023 PRODUCT GUIDE**  
Low carbon, electric and gas domestic hot water systems for bespoke commercial building projects

[www.adveco.co.uk](http://www.adveco.co.uk)



## 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](mailto: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