
introducing Ambion

Intelligent heating for
sustainable modular
housebuilders

ambion



new homes need low-carbon, highly effective heating



The way we build new homes is changing and housebuilders are increasingly looking for efficient, sustainable solutions to meet the growing demand for high-quality housing in the UK. As a result modular housing has rapidly gained in popularity in recent years, as a high quality, quick and environmentally friendly alternative to traditional construction methods.

Ambion's computer-controlled infrared (CCIR) heating system is a perfect fit for all forms of Modular Housing and Modular Constructing. It can be pre-installed in the factory, saving time and reducing installation costs and as Ambion's system is simply wired into the mains, it can easily be installed by any qualified electrician, making the process quicker and easier than on-site installations.



Ambion is just as easy to install on-site, for those who prefer to fit out properties post-delivery. And the benefits don't end there. Ambion also provides a low-carbon, low-cost source of heat that has advantages for both modular housebuilders and homeowners alike. For every kWh of energy, Ambion produces 2.67x more useful heat than a direct electric heater. This increased performance helps housebuilders to meet increasing sustainability regulations (and prepare for the upcoming Future Homes Standard) and enables homeowners to keep their energy bills low.

So, for modular housebuilders that are looking for an easy-to-install, sustainable alternative to central heating, Ambion is the ideal solution.

ideal for modern housebuilders

Ambion can deliver tailored heating, hot water or combined solutions for any modular building footprint. Solutions can be predetermined for multiple deployment or designed to specific building requirements per site.

We can provide an **entire CCIR heating system**, including as many **infrared heaters** as you need for each house type, a **control panel** and a **hot water system**. Our Ambion heater panels include fully-integrated computers, to optimise energy use within the property while maintaining a comfortable temperature 24/7.



Decarbonising heat: CCIR's key role

Heat accounts for 1/3 of the UK's emissions – so as the UK moves towards its net zero emissions target, finding low-carbon ways to heat our homes and businesses will be critical.

Computer-controlled infrared (CCIR) heating will therefore play a key role in decarbonising heat. It's powered by electricity, which is a low-carbon alternative to gas, and as it heats the materials within a room rather than the air, it's a much more effective method of heating a space than traditional central heating.

An independent review of Ambion's CCIR system verified that it uses 60% less energy than standard convection systems and 3% less than ASHPs.



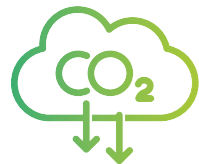
why choose Ambion?

Modular housebuilders across the UK are switching to Ambion's system because...



It's cheap and easy to install

As it's simply wired into the mains, Ambion can be fitted by any qualified electrician, and its installation costs are 40% lower than air source heat pumps (ASHPs).



It's a sustainable, low-carbon heating solution

Infrared is a low-carbon source of heat, and the high performance of Ambion's system can help you meet the requirements of the Future Homes Standard.



It's built to last for the long-term

Ambion comes with a 10-year guarantee - double that of a conventional boiler - and it has a service life of 33 years, compared to a conventional boiler's typical lifespan of 10-15 years.

In a typical three-bedroomed house, the average cost of installing Ambion is **£6,500**, compared to **£10,500** for installing an air source heat pump.

Homeowners prefer properties with Ambion installed because...



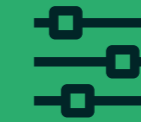
It provides low cost, highly effective heating

Ambion's system uses 60% less energy than standard convection systems, which keeps homeowners' energy bills down.



It creates a more comfortable environment

CCIR heating provides a more natural heat that feels like standing in direct sunlight, reduces damp and doesn't circulate dust like convection heating does.



It gives them total control over their consumption

The Ambion control panel and mobile app enable homeowners to control each heater individually, giving them full control over their heating.



how we're different

As the only computer-controlled infrared (CCIR) heating system in existence, Ambion takes all the benefits of infrared heating to the next level.

Our unique heat optimisation software means Ambion's performance level is much higher than any other infrared system on the market. For every kWh of energy, it produces 2.67x more useful heat than a direct electric heater. This means that it combines all of the benefits of infrared heating - such as a healthier, more comfortable environment, cheaper energy bills and lower carbon emissions.

So, if you're looking for a low-cost, sustainable alternative to central heating that can help you to meet the Future Homes Standard, there's no better choice than Ambion.



a perfect fit for future homes

First Start Homes, a leading MMC housebuilder, is striving to create a passive house - one that provides homeowners with high levels of comfort while using very little energy to heat and cool the building.

To do so, it needs a source of heat that uses minimal energy, while providing maximum comfort - which means Ambion is the ideal solution. Ambion uses 60% less energy than traditional convection systems, which means its carbon emissions are also more than 60% lower than conventional systems. By installing Ambion, First Start Homes can provide homes that are fit for the UK's low-carbon future.

First Start Homes has already reduced the running costs of its homes down to around £200 per year, and it is seeking to bring them down further. Ambion's high performance levels means it uses little energy, keeping electricity bills low, and the system's 10 year warranty and minimal maintenance costs should enable First Start Homes to further reduce the running costs of its homes.



After a trial in one of First Start Homes' showhomes was successful, it has now rolled out Ambion in 11 of its bungalows in the Vale of Glamorgan. Here's what Marcus Fookes, Head of New Markets and Operations at First Start Homes, had to say:

"We chose Ambion because we needed a sustainable form of heating that would future-proof our homes for the long term. The system maintains a comfortable temperature round-the-clock, while using minimal energy, and integrates with our solar and battery solutions. It's exactly what we were looking for."



ready to feel the benefits of Ambion?

To find out more about how Ambion is the ideal alternative for sustainable housebuilders, call us on **01924 385659** or email **modularhousing@ambionheating.com**

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