



# Daikin Altherma

## low temperature heat pump

### Flexible installation for the modern home

For the ultimate in energy-efficient heating, hot water and optional cooling, the Daikin Altherma low temperature heat pump offers an incredibly versatile solution.

The sleek design of its wall mounted indoor unit has been designed to blend with your other household appliances, for a subtle but powerful addition to your home. It can also be connected to a stainless steel domestic hot water cylinder to deliver hot water for all of your household needs.

#### How does it work?

The Daikin Altherma low temperature system offers the ultimate in quiet home comfort.

With both heating and optional cooling capabilities, you can create a completely tailored home environment. There's also the option to connect the Daikin Altherma low temperature wall mounted unit to a hot water cylinder to give you a highly efficient supply of hot water.

When Daikin designed this unit, we wanted to create a low-maintenance, space-saving solution fit for your modern property. The slim and stylish design ensures it's a seamless fit, while its easy-to-use interface means you can take full control of your heating schedule. For high-performance technology, without compromise.

**Both the wall mounted and integrated floor systems offer:**

- › Home heating and optional cooling, with hot water connection available
- › Innovative Bluevolution™ technology uses a refrigerant with low global warming potential, for maximum efficiency with minimum environmental impact
- › An intuitive interface, with Daikin eye technology for at-a-glance reassurance
- › Award-winning design, for seamless integration into your home



By choosing Daikin, you're choosing more than our world-leading technology. More than our commitment to innovation. Even more than high-powered home comfort for your family. You're choosing to lead the UK's renewable heat movement.

Be the energy for change.



01738 827864  
info@simpleapproachea.co.uk  
airliegreen.uk

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin UK. Daikin UK has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin UK explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin UK.





# Energy for Change

Homeowner brochure



# The path to a better future

The science on climate change is clear: human activity has led to global temperatures rising by 1°C. While it might not sound like much, without swift action the impact of crises such as rising sea levels, crop failures and loss of biodiversity will be felt worldwide.

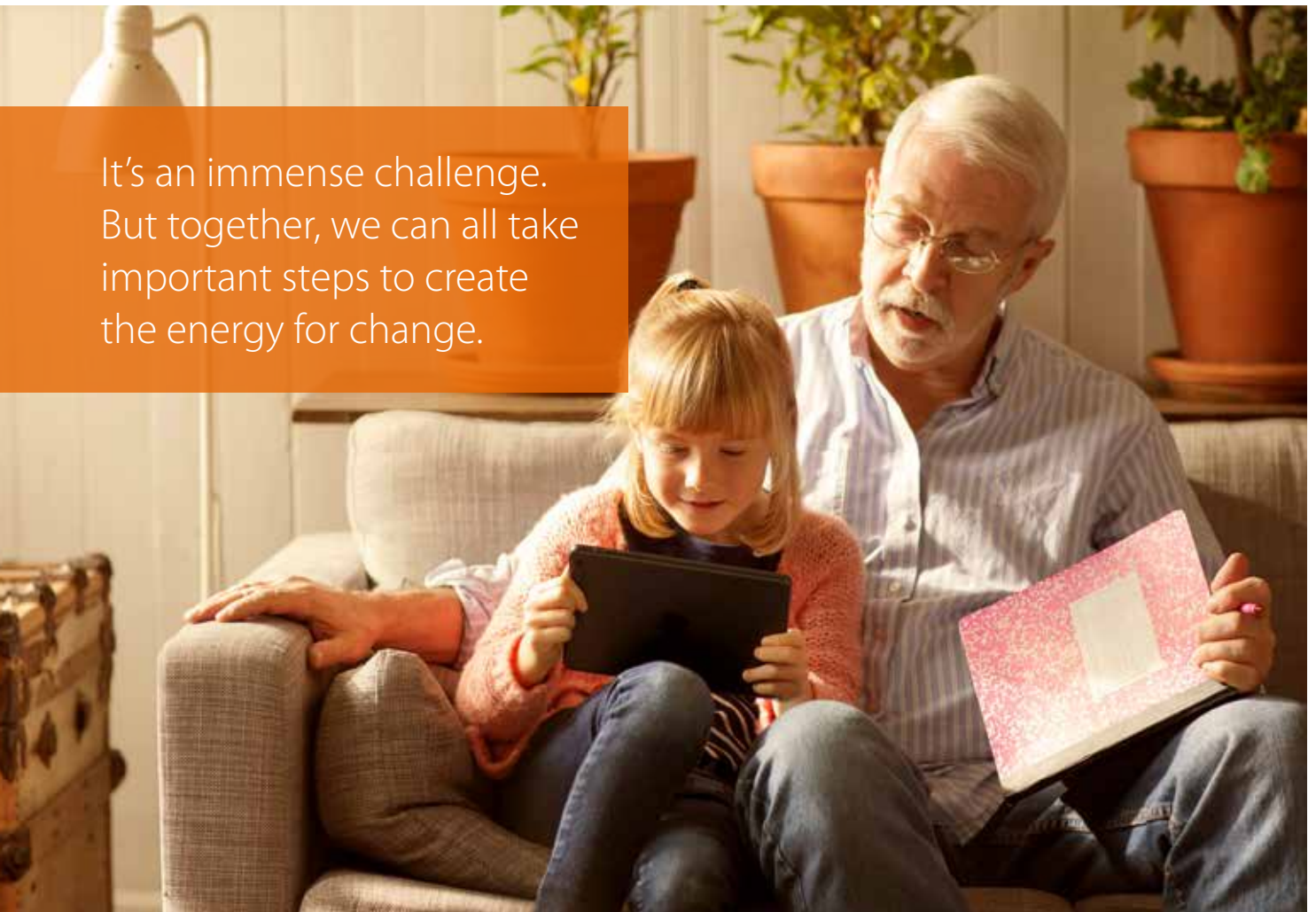
But positive change is already in motion.

Many of us are already doing our part to live more sustainably. You might recycle, compost your leftovers, cycle a little more or consume a little less.

And by 2050, the UK Government has set a target of net zero greenhouse gases in the UK. So low-carbon electricity generation is on the rise. Renewable wind and solar energy generation is growing. Already it's all helping us experience cleaner air, improved wellbeing and a healthier planet.

To ensure we reach our climate goals on time, more and more of our homes will rely on electricity and renewables for our heating and hot water, as we make the transition to low-carbon heating.

It's an immense challenge.  
But together, we can all take  
important steps to create  
the energy for change.





# Heating your home?

It's time for change

You can kickstart positive change, today, by making the switch to Daikin heat pump technology.

By using renewable heat to warm your home, you'll enjoy all the comfort and control you expect, and save energy, while minimising your impact on the planet. Daikin Altherma 3 uses R32 refrigerant which has 75% less GWP (Global Warming Potential) than its predecessor R410a.

The Daikin Altherma 3 low temperature heat pump is perfect for an energy-efficient new property, it's also suitable for replacing an older heating system. Wherever it finds a home, it will keep heating bills low while helping to reduce your carbon emissions and environmental impact.

We at Airlie Green have joined Daikin in making that positive change by installing Daikin R32 Altherma 3 heat pumps, we are offering a highly efficient, reliable all year round heating system that delivers all of your heating and hot water needs.

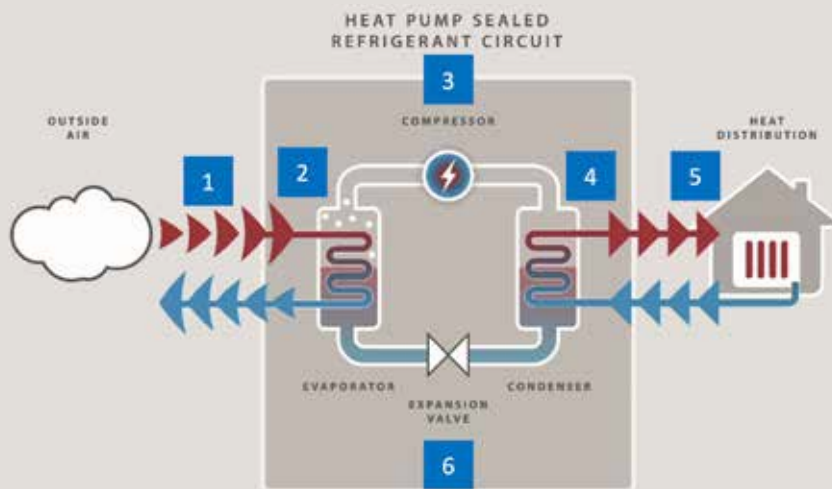
**Together, we can all do the right thing: for people, the planet and our future.**

# How do heat pumps work?

A heat pump extracts energy from one place – the air, ground or water – and transfers it to your home in an effective, sustainable way.

A heat pump works pretty much like a fridge in reverse. In a fridge, heat is extracted from inside the fridge so that it feels cold inside and is released externally – which is why the coil on the back of your fridge feels warm. A heat pump works the other way around by extracting heat from the outside air and releasing it into a central heating system to warm a home.

Here's how it works:



1. Air is blown across an evaporator, where heat energy from the air is absorbed by a sealed refrigerant circuit
2. The heat energy absorbed increases the refrigerant temperature and the refrigerant evaporates from a liquid to a gas, storing the captured energy
3. The refrigerant gas passes through a compressor where it is pressurised, increasing its temperature even more
4. The refrigerant gas passes into a condenser where the refrigerant cools and condenses back into a liquid, releasing the heat energy
5. The released heat is transferred into the home's heating and hot water circuit
6. The refrigerant passes back through an expansion valve to begin the whole process again.

## The eco-friendly answer to heating your home

There are a few different types of heat pump. But they all have one thing in common: they're powered mainly by renewable energy, making them one of the most economical and eco-friendly heating solutions available today.

At Daikin, we recommend air-source heat pumps for UK homeowners looking to make a positive change.

We design some of the world's most eco-friendly, powerful air-to-water and air-to-air heat pumps – for minimum disruption to your everyday, and maximum benefit for your family.