



Heat pumps

are key to sustainable new homes



Perfect new-build heating solutions

When you are planning residential developments, renewable energy – especially for heating – cannot be overlooked if you are aiming for truly low-carbon homes.

The Daikin Altherma air-water heat pump range provides a perfect heating and hot water solution for new build properties. Our heat pumps have a high seasonal efficiency and are designed specifically for thermally efficient, low energy, zero carbon homes and will help you to achieve SAP targets in a cost efficient way.

Fully compliant with environmental directives and with an A++ ERP rating, Daikin Altherma heat pumps are easy and economical to install and with user-friendly controls and low running costs, they provide home comfort for your customers.



Easy to use controllers

Unique features as standard

- › Backlit, plain text, menu driven
- › **For the installer:** Easier to commission using the 'quick wizard' function; upload installer settings via PC
- › **For the householder:** User friendly, intuitive, high comfort with smart room temperature control



Three heat pump options for every application

Daikin Altherma Monobloc up to A++

- › All-in-one unit saves space indoors
- › Sealed refrigerant circuit - your preferred installer needs no specialist F-gas certification

Daikin Altherma LT Split up to A++

- › Small outdoor unit can be sited up to 30m away from the compact wall-hung indoor unit
- › Higher seasonal efficiencies providing greater running cost savings
- › Designed for severe winter conditions

Daikin Altherma Hybrid up to A++

- › Combines an air-to-water heat pump with the familiar gas condensing boiler
- › Delivers a high level of improvement in SAP (DER against TER)
- › Operates as a true Hybrid system
- › Intelligent management minimises running costs



'Free' heat - even when it's -25°C

Daikin Altherma is based on air-to-water heat pump technology – around three times more efficient than fossil fuel boilers. As a result, up to 70% of the heat output is effectively free.

- › Heating and hot water all year – even if it's -25°C outside
- › Lower running costs and up to 73% less CO₂ than oil or electric heating
- › Certified by the Microgeneration Certification Scheme (MCS)

Heat pumps are a cost effective way to achieve SAP

As Building Regulations continue to evolve, developers are looking for new and innovative products to achieve Target Emission Rates (TER). Daikin will support your SAP assessor to show how our solutions can provide cost effective whole house solutions.

Helping you deliver sustainable homes

During every stage of the project, our dedicated specification team will support you to ensure that your design and technical requirements are met, and energy compliance targets are achieved.

Our pre-sales technical team will provide advice to ensure that heating and hot water systems are carefully designed, taking into account details such as pipe sizes, radiator sizes and locating the outdoor units to meet planning requirements and householder preferences.

Daikin UK offer a unique heating design service with full hot water and heating layouts, emitter sizing to

SAP benefits of Daikin Altherma heat pumps – example						
SAP assessment [Scotland]	Gas Boiler + PV [1kW]		Daikin Altherma		Daikin Altherma Hybrid	
	TER	DER	TER	DER	TER	DER
Mid terraced [75m ²]	12.6	11.9	24.8	15.6	21.78	16.4
<i>Improvement</i>	-	5.5%	-	37.0%	-	24.5%
Semi-detached [90m ²]	14.0	13.8	26.6	15.8	23.49	16.7
<i>Improvement</i>	-	1.4%	-	40.7%	-	28.6%
Large detached [195m ²]	10.9	10.07	21.6	12.1	18.97	13.3
<i>Improvement</i>	-	7.6%	-	43.9%	-	29.4%

Running cost savings – case study					
The renewable energy produced by a Daikin Altherma hybrid fitted in a 3-bed Dumfries home (7.9 kW heating load at -3.4°C, design flow temperature 50°C) was measured from May 2014 to March 2015. The results show that the annual running cost savings for heating compared to a gas boiler alone was 27%.					
Heat Pump Annual SPF	Heat Pump Coverage for Space Heating [8,448 kWh]	Boiler Coverage for Space Heating [2,162 kWh]	Total Running Cost of Hybrid for Space heating	Equivalent Running Cost if a Gas Boiler used instead*	Running Cost Savings for Hybrid over Gas Boiler
4.0	79.6%	20.4%	£294	£405	27%

* GB Energy Supply Tariff – Gas 2.94p/kWh, Electricity 10.028p/kWh

minimise flow temperatures and maximise running cost savings. Collateral warranties are available on request to meet the requirements of registered social landlords. Our mobile showroom can be arranged for on-site staff product training and to support tenant liaison days when needed.

Smooth installation

We offer a range of support for installers, including training at one of our 5 centres of excellence, on-site commissioning, and a workmanship standard – all designed to ensure that your heat pump project runs smoothly.

After sales support

Daikin UK's network of in-house service engineers are on standby to resolve any equipment issues within designated response times. The Daikin Altherma air-water heat pump comes with a 3-year parts and labour warranty as standard, rising to 5-years where installed by our Key Partner installers.



MCS HP0006



Trust Daikin

Daikin UK offers the most efficient heating, ventilation and air conditioning solutions, renowned for design excellence, quality and reliability. So our customers can depend on Daikin for the ultimate in comfort.

Daikin UK has always prided itself on providing energy efficient and affordable heating solutions. And while we believe domestic heat pumps offer a future that makes greater use of renewable energy, we are also committed to offering options for every situation.

For some householders, energy efficient condensing boilers offer a value-for-money solution for existing dwellings. As a result, Daikin UK is expanding its portfolio of heating appliances with a range of state-of-the-art gas condensing boilers.

Compatible with a range of heat emitters, Daikin's boiler complements our industry-leading range of hybrid, heat pump and solar systems - all available exclusively from Daikin UK.

daikin.co.uk

Dedicated homeowner support line: 0845 641 9271

Heating Sales Team: 0845 641 9070

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