

The natural choice



DAIKIN ALTHERMA
LOW TEMPERATURE HEAT PUMP
HEATING, COOLING &
DOMESTIC HOT WATER

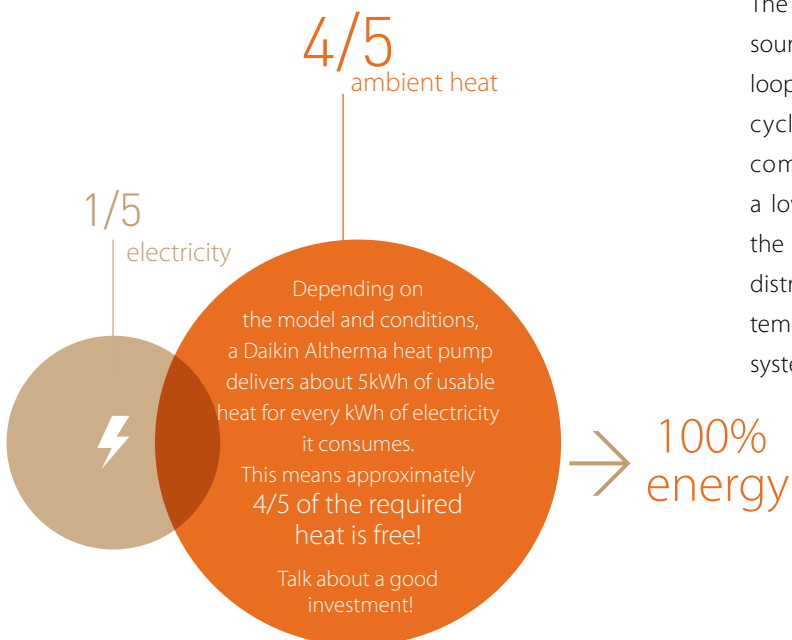
END USER LEAFLET

The natural choice

3 in 1: heating, cooling and hot water

Daikin Altherma is a total heating and domestic hot water system with an option for cooling.

Based on heat pump technology, it represents a flexible and cost-effective alternative to traditional heating systems. The inherent energy efficiency of Daikin Altherma makes it an ideal solution for reduced energy consumption and low CO₂ emissions.



The Daikin Altherma heat pump uses a sustainable energy source: extracting heat from the outside air. In a closed loop containing a liquid refrigerant, a thermodynamic cycle is created through evaporation, condensation, compression and expansion. This “pumps” heat from a lower to a higher temperature level. Via a heat exchanger the heat gained is transferred to your home’s central heating distribution system. This can be under floor heating, low-temperature radiators and/or fan coil units. For cooling, the system operates in reverse.

The high efficiency system

Daikin Altherma can heat your home up to 5 times more efficiently than a traditional heating system based on fossil fuels or electricity, achieving an excellent coefficient of performance (COP) rating of 5.04 *. By making use of the heat in the outside air, the system uses much less energy while you enjoy a stable and pleasant level of comfort. Also, maintenance and operational requirements are minimal, keeping running costs low.

Calculate your energy savings.

Go to ecocalc.daikin.eu and see for yourself how much you can save with a Daikin heat pump.



*EHV(H/X)04C or EHB(H/X)04C with ERLQ004CV3 (Ta DB/WB 7°C/6°C - LWC 35°C (DT=5°C))

* Simulation for a new build detached house (room in roof) with low temperature emitters, for 4 people and a heated surface of 125m², taking into account Belgian climate conditions and energy prices.

The Daikin Altherma low temperature heat pump, part of an **innovative** product range, is designed to deliver only the best in **climate control:**

Best seasonal efficiencies, providing the highest savings on running costs

- excellent COP ratings for incentive and certification schemes
- no need for (or only very limited) use of electrical assistance
- best efficiencies achieved within the most relevant temperature range



Perfect fit for new builds, as well as for low-energy houses

- custom-made product for very low heat loads
- built to withstand the most severe winter conditions
- heating, cooling and domestic hot water in one system



Designed **with you in mind**

Integrated floor standing unit, saving installation space and time

- all components and connections factory-made
- very small installation footprint required
- minimum electrical input with constantly available hot water



Integrated solar unit, maximising renewable energy and offering top comfort

- solar support for domestic hot water with unpressurised solar system
- lightweight plastic tank
- bivalent option: combinable with a secondary heat source
- app control possible



Wall mounted unit, offering flexibility for installation and domestic hot water connection

- compact unit with small installation space, almost no side clearances are required
- combinable with a separate domestic hot water tank of up to 500 litres, with or without solar support



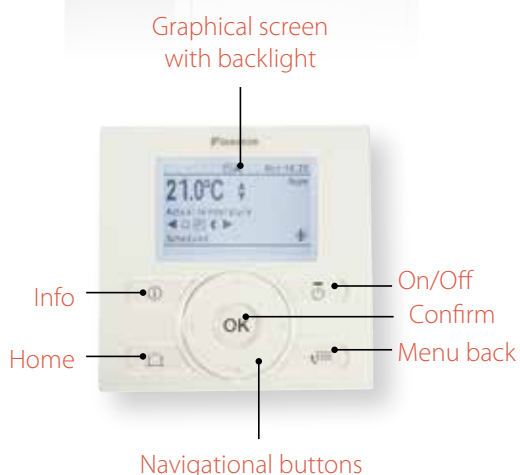
Combining heating, cooling and domestic hot water **in one**

Integrated floor standing unit saving installation space and time



Thanks to an innovative and sleek design, the **Daikin Altherma all-in-one solution provides heating, cooling and domestic hot water**. Our floor standing indoor units have a small footprint and are stackable on a floor space of just **600x728 mm** and can have a 180 or 260 litre domestic hot water tank added.

We use the most advanced domestic hot water tanks to minimise heat loss and **deliver you 50% more heat retention compared to standard tanks**. But to maximise efficiency, we combine our advanced technology with state-of-the-art control systems that use intuitive menus to allow you to pre-set the schedule and temperature for domestic hot water production and to combine this with a reheat function that automatically reheats the tank when the temperature drops below the pre-set minimum. The same controller also allows you to programme your heating or cooling requirements.



Make use of the sun's free energy

Integrated solar unit maximising renewable energy and offering top comfort

The integrated solar unit **uses free energy from the sun** and thus supports the production of domestic hot water. Solar energy and heat pumps complement each other ideally in this application. Depending on your customer's needs, an unpressurised and pressurised solar system can be offered. The integrated solar unit is available in a **lightweight plastic tank** and is combinable with a secondary heat source as an option. With the app easy control is possible via your smartphone.

The Daikin Altherma integrated solar unit provides solar support for the production of domestic hot water using either an unpressurised or pressurised system depending on your particular needs.

The solar unit uses a an advanced lightweight plastic tank that incorporates exception hygienic properties to protect against contamination. Thanks to our 'flow through' principle, bacteria is unable to become established and grow and this eliminates the need for a thermal disinfectant cycle.

Our solar unit can be connected to any secondary heat source, such as a gas boiler, to provide heating and domestic hot water.

Additionally it can be controlled by either the state-of-the-art controller or via a smartphone app.



Wall mounted unit

Flexibility for installation and domestic hot water connection

When an existing hot water system is to be retained or when floor space is limited, the Daikin Altherma wall mounted unit may be the perfect solution.

The compact unit contains all the **necessary hydraulic connections** within a **sleek design** to **ensure fast installation and ease of maintenance**.



As with all the Daikin Altherma products, initial commissioning is facilitated by the configuration wizard on the controller that then shows only the relevant settings, which can be downloaded to a pc as a back-up. The controller also displays full text error messages to allow the end user to take appropriate corrective action, while detailed information can be read from the extended menus should a service engineer need it. The controller is combined with a temperature sensor that is installed in a location that will best allow it to monitor ambient temperatures for the control of optimal heating and cooling.

Daikin Altherma: the optimal solution for all climates



Years of testing and experience with extreme temperatures has given Daikin unparalleled knowledge in creating heat pumps that are guaranteed to **deliver top performance even in the most severe of winter conditions**. Our outdoor units incorporate frost protection design features that avoid ice build-up enabling them to continue working optimally no matter what temperatures are encountered.

So, no matter which Daikin Altherma system is chosen, our units deliver the best solution for any climate.



Daikin, your partner of choice

Solar Keymark certification



Daikin's solar collectors have been awarded the Solar Keymark certification. The Keymark for solar thermal products is recognized across all of Europe and helps users to select quality solar collectors. In most European countries this certification is mandatory for the products to be eligible for subsidies.



Today, Daikin leads the way towards more efficient, cost-effective and environmentally friendly comfort solutions, introducing products optimised for all seasons. In fact, Daikin products reduce energy and costs in a smart way. They are designed to perform under all conditions and reflect the actual performance you can expect over an entire heating and cooling season. So, with Daikin you make the right choice for your wallet... and the environment.

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