

The natural choice



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

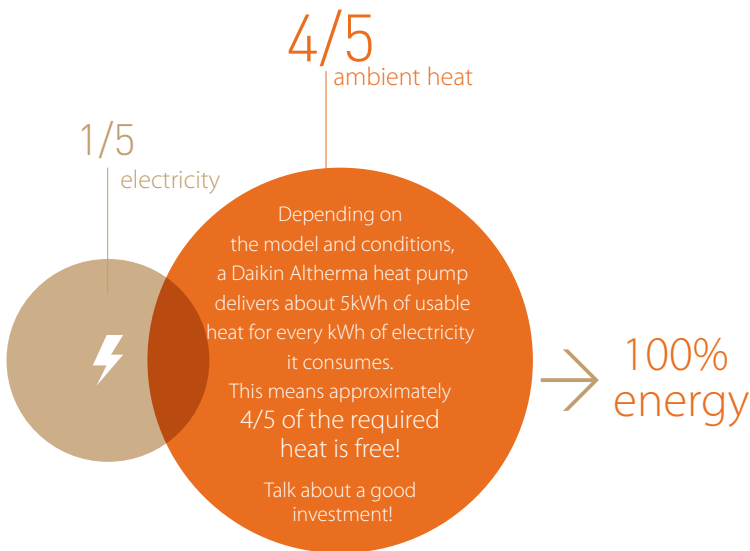
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The natural choice

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.

Four benefits of the Daikin Altherma low temperature heat pump

- ✓ Save on running costs, maintain optimal comfort
- ✓ Perfect fit for new builds and low-energy houses
- ✓ Compact solution with domestic hot water
- ✓ Intuitive & self-explanatory control



Save on running costs, maintain optimal comfort

Efficient operation in any condition

Daikin Altherma's advanced technology offers both high savings and a comfortable room temperature. It starts with correctly sized components for your home, so you don't pay for unneeded capacity. At its heart is a high-efficiency compressor producing maximum output with minimal energy.

Smart controls ensure **the most efficient energy** use across all seasons – even in very cold weather – keeping running costs low.

Low maintenance and excellent ratings for energy-efficiency credit schemes result in a Daikin Altherma installation with a great **return on your investment**.



Perfect fit for new builds and low-energy houses

One system for optimal year-round comfort

The Daikin Altherma low temperature is designed to meet the requirements of newly built and low-energy houses characterised by low heat loads.

Suitable for all climates, it is built to withstand the most severe winter conditions, providing stable room temperatures throughout your home.

Even better, the system can be connected to all types of low-temperature heat emitters used in modern residential construction. **These include under floor heating**, low-temperature radiators, fan coil units and heat pump convectors.



Compact solution with domestic hot water

If you're looking for an **all-in-one solution**, Daikin Altherma has the answer. The **indoor floor-standing unit combines heating and cooling with domestic hot water heating**. It features a high-capacity 180 or 260l tank with **50% less heat loss compared to a standard tank**. Intelligent controls offer a schedule function (heating the tank at a specified time of day) and a reheat function (automatically reheating when the temperature drops below a specified minimum).

If integrated domestic hot water isn't required, see the Daikin Altherma indoor wall-mounted unit on page 6.

Floor-standing all-in-ONE unit

Small footprint

At only **600 x 728 mm**, the space-saving Daikin Altherma integrated indoor floor-standing unit combines a small footprint with a compact sleek design.



Intuitive & self-explanatory control

User settings are accessed through a large display and an intuitive and self-explanatory menu. They include timers for heating, cooling and domestic hot water operation. This ensures stable room temperatures for higher comfort, and correct domestic water temperature for greater efficiency. More detailed menus offer further information and control, such as advanced energy management.

Alternatively, a simplified display shows only the room temperature and allows the temperature set-point to be changed.





Wall-mounted unit

Compact indoor unit with sleek design



The Daikin Altherma indoor wall-mounted unit can be the perfect solution in certain situations. Within its compact size and sleek design are all hydraulic components. This unit is suitable when integrated domestic hot water is not needed with the Daikin Altherma system; **when the unit should be combined with a separate domestic hot water tank; or when a connection to the Daikin solar hot water system is required.**

Combine wall-mounted units with solar energy

A great way to reduce the environmental cost of domestic hot water is to use solar collectors to heat the water.

There are two types of Daikin Altherma solar system available: unpressurised and pressurised. The unpressurised system only circulates water into the solar collectors when there is sufficient heat from the sun. When the heat for the sun is insufficient, the system drains back into a collecting tank eliminating the need for anti-freeze. In a pressurised system, the solar collectors are filled with a heat transfer fluid with the correct amount of antifreeze, pressurised and then sealed.

Both systems use the collected solar heat to heat the domestic water, either directly or via a heat exchanger and, in cooler weather, with the help of a heat pump. In addition, an unpressurised system can also be used to provide central heating support.



Heat pump convector



The Daikin Altherma heat pump convector does much more than a fan coil unit or other heat emitter. It can provide both heating and cooling if required. And connected to a Daikin Altherma heat pump system, it delivers

optimal energy efficiency, saving on running costs. Combined with under floor heating, the heat pump convector is the perfect option. Moreover, in this configuration it can improve efficiency by approximately 25% compared to regular fan coil units.

Today's low-energy houses need a fast-reacting heat emitter. The Daikin Altherma heat pump convector can be selected for rapid heating or cooling. Additional benefits include compact size, very low noise, plug and play installation, and individual room control with weekly timer.





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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