

Daikin Altherma low temperature **for New Houses**

Heating - Domestic hot water - Cooling

- » **Heating and cooling**
- » **Flexible heat emitter configuration**
- » **Low energy consumption: best COP levels in its class (up to 4.56)**
- » **Eco-label for low temperature split**



Two low temperature solutions that include a domestic hot water system

1 Split system

A SPLIT SYSTEM CONSISTS OF AN OUTDOOR UNIT AND AN INDOOR UNIT

The Daikin Altherma outdoor unit includes a heat pump that extracts heat from the outside air resulting in 2/3 of all usable heat coming from a sustainable and free source. If a heating and cooling combination is required, the indoor unit can lower the temperature to distribute a refreshing coolness.

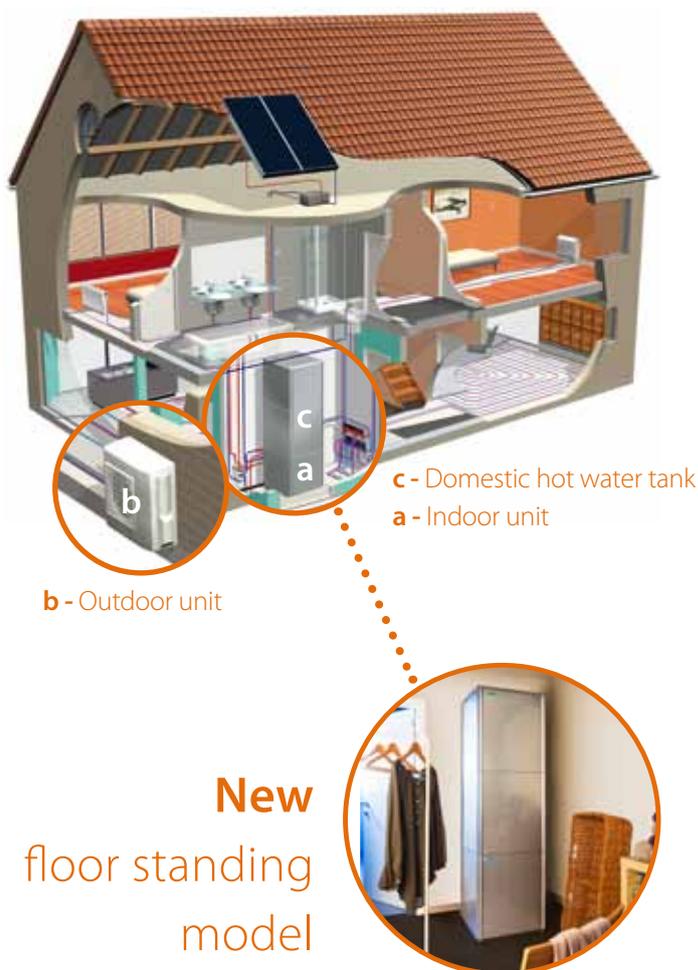
Daikin Altherma heats up to 5 times more efficiently than a traditional heating system. A lower running cost is thus achieved, while you can still enjoy a stable and pleasant level of comfort.*

Available capacities for split: 6, 7, 8 kW and 11, 14, 16 kW

New

Outdoor units with bottom plate heater are optimized for cold climates with outside temperatures down to -25°C. In these conditions, the unit's correct working is maintained by passing hot gases through the bottom plate to keep the drain holes open, by keeping the lower part of the coil free of ice, and by having no metal grids on the side that can become iced up.*

* COP (Coefficient of Performance) of up to 4.56

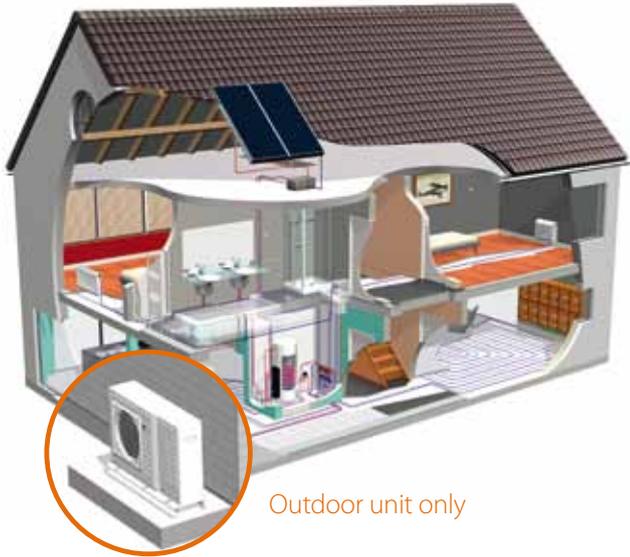


Accessories for low temperature applications

FLEXIBLE HEAT EMITTER CONFIGURATION

The Daikin Altherma system is compatible with all types of heat emitters, such as under floor heating, radiators and fan coil units, but the optimal solution is the **heat pump convector** which is much more than a fan coil unit or any other heat emitter. It can provide both heating and cooling if required and delivers an optimal energy efficiency of approximately 25% when connected to a Daikin Altherma low temperature system in combination with under floor heating.





Outdoor unit only

New
extra small
casing



An optional back up heater up to 6 kW can be installed. The control box includes the contactors, the software (PCB) and the user interface, which can be mounted separately or on the control box.

2 Monobloc system

EVERYTHING COMBINED IN ONE OUTDOOR UNIT

As an alternative to a split system, Daikin has introduced a monobloc version in which all the hydraulic parts are located within the outdoor unit. This means it is the water pipes that run indoors, making for easier installation, and the system is optimized for cold climates through freeze protection, extra insulation and computer controlled activation of the pump and back up heater.

Available capacities for monobloc: 6, 8 kW and 11, 14, 16 kW



Domestic hot water tank

As for the domestic hot water, Daikin Altherma is just as clever. The water inside the storage tank is initially warmed up using thermal energy from the outside air, thanks to the connection with the indoor unit.

The standard domestic hot water tank with a stainless steel finish is available in 200 and 260 litres.

EASY CONTROL

With the wired or wireless room thermostat, the ideal temperature can be easily, quickly and conveniently controlled. It allows for more precise measurement, thus allowing the user to optimize their comfort levels in an optimally and more energy efficient manner.

SOLAR CONNECTION

To save even more energy on domestic hot water production, the Daikin Altherma system can be connected to Daikin solar collectors.





ECO-LABEL

Daikin is the first manufacturer to receive the Eco-label for heat pumps!

Daikin Altherma low temperature with under floor heating received the EU ECO-LABEL because it has a higher energy efficiency and a lower global warming impact than other heat pump products in its class. Please refer to <http://www.daikinaltherma.eu/eco-label.jsp> for the certified products.



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.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP) and Fan coil units (FCU). Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com



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