

Daikin Altherma Low Temperature for New Houses

Heating - Domestic hot water - Cooling

- » Heating and cooling
- » Flexible configuration with respect to heat emitters
- » Low energy consumption: best COP levels in its class (up to 4.56)
- » Eco-label for Low Temperature split



Choose your air to water heat pump

A / SPLIT SYSTEM:

A1 / OUTDOOR UNIT :

AN EFFICIENT USE OF ENERGY FROM THE AIR

Daikin Altherma uses a natural source of energy. The **outdoor unit** extracts heat from the outside air and raises its temperature to a level high enough to supply heating. This heat is then transferred to the indoor unit through refrigerant pipes. The compact outdoor unit is easily installed and, as no drilling or excavation work is required, it can also be installed in flats and apartments.

A2 / INDOOR UNIT:

THE HEART OF THE DAIKIN ALTHERMA SYSTEM

The **indoor unit** heats the water that circulates through low temperature radiators, floor heating systems or fan coil units and also provides domestic hot water. If you opt for the combination of heating and cooling, then the indoor unit can also decrease the water temperature to distribute a refreshing coolness.

Available capacities for Daikin Altherma Low Temperature Split

indoor unit / outdoor unit: EKHBH-B / ER(H/L)Q-B
heating capacity: 5.75 ~16.05 kW
indoor unit / outdoor unit: EKHBX-B / ER(H/L)Q-B
heating capacity: 5.57 ~16.05 kW
cooling capacity: 7.20 ~ 16.76 kW

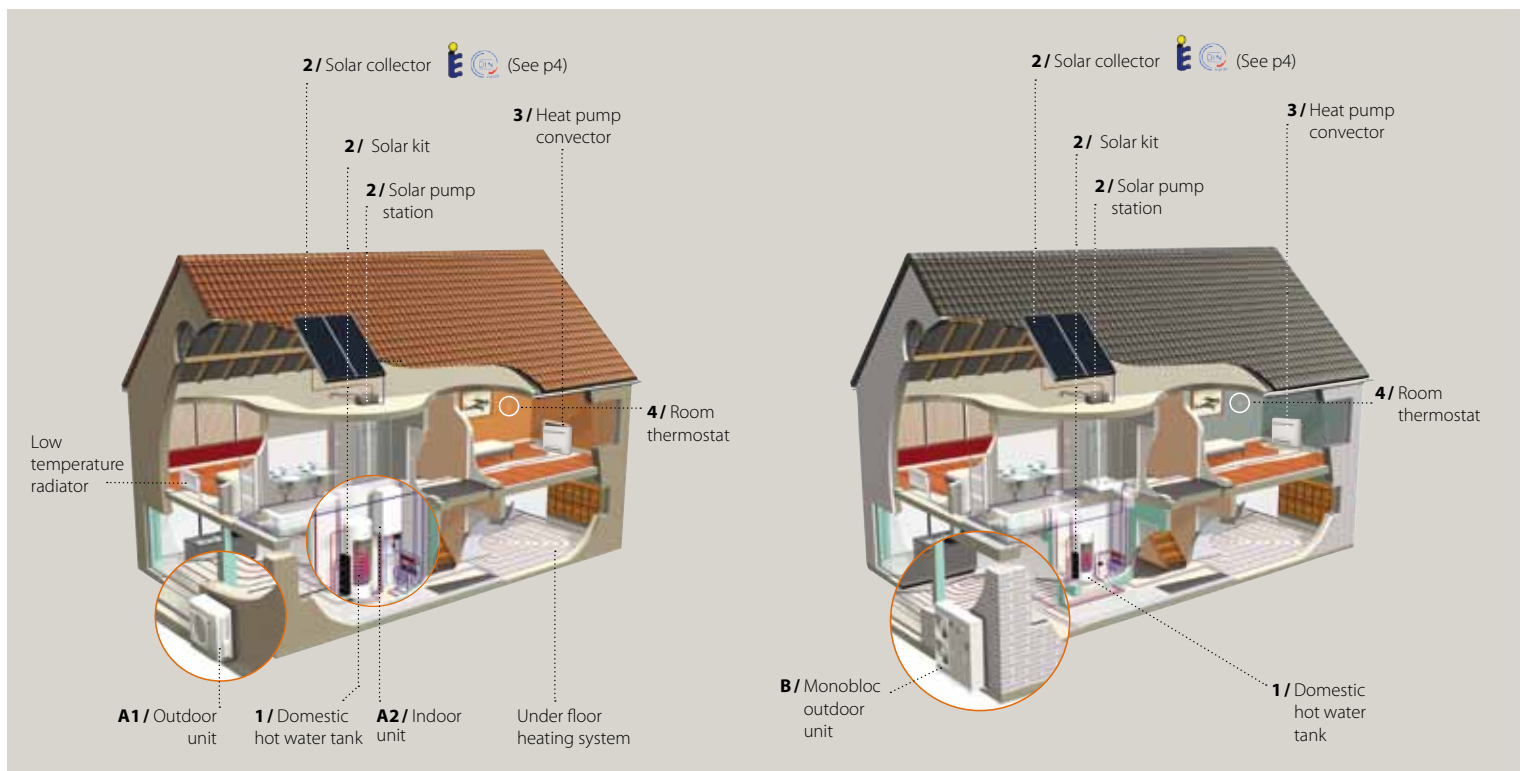
B / MONOBLOC OUTDOOR UNIT:

ALL IN ONE

In addition to Daikin Altherma outdoor and indoor unit systems, Daikin has introduced a monobloc version in which **all hydraulic parts are located within the outdoor unit**. In this system the water pipes, rather than refrigerant lines, run indoors from the outdoor unit. The monobloc can be used for both heating and cooling and is connectable directly to your heat emitters.

Available capacities for Daikin Altherma Low Temperature Monobloc

ED(H/L)Q-B
heating: 11.2 ~16.00 kW
EB(H/L)Q-B
heating capacity: 11.2 ~16.00 kW
cooling capacity: 12.85 ~16.73 kW



EXTRA COMFORT

1 / DOMESTIC HOT WATER TANK

For your domestic hot water, the unique lay-out and special placement of the system components maximise energy efficiency. The water inside the storage tank is primarily warmed up by thermal energy from the outside air, thanks to a heat exchanger connected to the heat pump. However, an additional electrical heating element in the domestic water tank can take care of extra heat required in the shower, tub or sink. At necessary intervals the water is automatically heated to 70°C to prevent the risk of bacteria growth. With Daikin Altherma you can enjoy delightfully warm and perfectly safe water at all times. Depending on the daily consumption of hot water, Daikin domestic hot water tanks are available in different sizes.



2 / SOLAR SYSTEM

For even greater efficiency and cost savings, Daikin offers you a complete solar system. This will provide you with up to 70% of the energy needed to produce all your domestic hot water. The high-efficiency collectors transfer all the shortwave solar radiation into heat as a result of their highly selective coating. The collectors can be mounted on the roof tiles. The solar kit controller and pump station provide the transfer of solar heat to the Daikin domestic hot water tank via an external heat exchanger. In contrast to tanks with two heat exchangers, this system allows the entire content of the tank to be efficiently heated with solar heat and, if necessary, with heat pump energy.



3 / HEATING SYSTEM

Several different types of systems are available to heat your home, and Daikin Altherma is compatible with all of them. You can choose between under floor heating, low temperature radiators, a heat pump convector or regular fan coil units.

NEW The **heat pump convector** is much more than a fan coil unit or any other heat emitter. The heat pump convector can provide both heating and cooling if required and obtains optimal energy efficiency when connected to a Daikin Altherma Low Temperature system. With an interlink function, the heat pump convector is able to emit the required levels of heat at low leaving water temperatures, while retaining a modest size. The heat pump convector improves efficiency by approximately 25% compared to a heating system that combines under floor heating and regular fan coil units. The heat pump convector can easily replace existing heat emitters, thanks to its plug and play installation.



4 / ROOM THERMOSTAT

With the wired or wireless room thermostat*, the ideal temperature can be easily, quickly and conveniently regulated. An external sensor (EKRTETS) can be placed between the under floor heating and the floor, as an option to the wireless room thermostat. It allows for more precise measurement and can regulate the comfort level of your customer even more optimally and energy efficiently.



*EKRTW for wired wall-mounting and EKTRR for the wireless type.



B/31/1

ECO-LABEL

Over the past ten years, the «Flower» has become a Europe-wide symbol for energy-efficient products, providing simple and accurate guidance to consumers.

All products bearing the «Flower» have been checked by independent bodies for compliance with strict ecological and performance criteria. There are currently twenty-six different product groups, and already more than 250 licences have been awarded for several hundred products. Heat pumps have recently been added as a product group, and Daikin was the first company to obtain the Eco-label for its Daikin Altherma air-to-water heat pumps. The EU awards an Eco-label to a heat pump when its evaluation shows it to be more energy efficient than the average for heat pumps without an Eco-label. In being awarded the EU Eco-label, Daikin Altherma was assessed in a range of categories: heating and cooling efficiency, refrigerant global warming potential (GWP), noise, absence of RoHS substances, training, documentation, availability of spare parts and detailed information at point of sale.

Daikin Europe N.V. obtained an Eco-Label for the following Daikin Altherma products with under floor heating valid for applications with an outlet temperature of 35°C.

The following models received the ECO-LABEL:

ERHQ006B-EKHBH008B, ERHQ007B-EKHBH008B, ERHQ008B-EKHBH008B, ERHQ011B-EKHBH016B, ERHQ014B-EKHBH016B, ERHQ016B-EKHBH016B, ERHQ006B-EKHBX008B, ERHQ007B-EKHBX008B, ERHQ008B-EKHBX008B, ERHQ011B-EKHBX016B, ERHQ014B-EKHBX016B, ERHQ016B-EKHBX016B.



Daikin solar collectors are awarded with the Solar Keymark certification. The Keymark for solar thermal products is recognized all across Europe and helps users to select quality solar collectors. In most European countries this certification is even mandatory 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.



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Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units.



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