

Daikin Altherma 3 H HT

# The quintessence of heat pump

## High temperature air-to-water heat pump

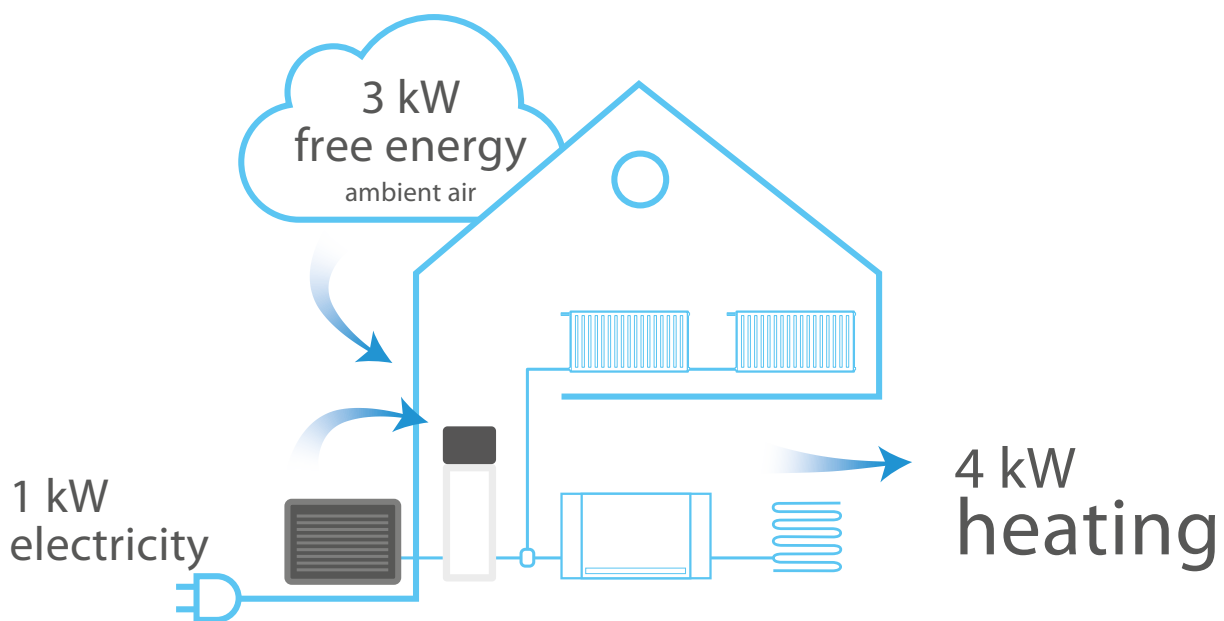
Heating, cooling and domestic hot water



# Why choose Daikin Altherma air-to-water heat pump?

## How does it work?

The Daikin Altherma outdoor unit extracts the outside air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, and heat the water up to your needs and to deliver it into your house.



## Highest energy label

Air-to-water heat pumps are among the most economical heating solutions. By relying on air to answer your heating, cooling and domestic hot water needs, the heat pump achieves the highest energy labels.



Up to



# Daikin Altherma 3 H HT

## Invented to replace boilers

### Make the jump and install a heat pump

The Daikin Altherma 3 H HT is a perfect fit for your renovation project. Because it delivers a leaving water temperature of 70°C, similar to your boiler but without the use of an additional electrical back-up heater, you don't need to replace your radiators. Changing your heating system from a boiler to Daikin Altherma 3 H HT will help you save space. Our floor standing model has a very small footprint of under 0.36m<sup>2</sup>.

#### BEFORE



#### AFTER

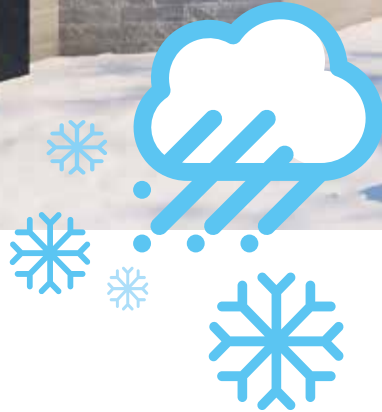


### A green investment

Moving from a boiler to a heat pump means switching to a totally green solution. No more fuel or gas is burned and electricity is produced in a renewable way; heat pumps generally reduce CO<sub>2</sub> emissions by 70%. The difference is visible on your bill, and the return on investment can occur after just one year!



Designed to withstand the coldest climate conditions



## Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 H HT to work in "heat pump" mode only down to  $-28^{\circ}\text{C}$  outside temperature.

Heating capacities are also maintained down to  $-15^{\circ}\text{C}$  outside temperature. This performance is achieved thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all new products such as the Daikin Altherma 3 H HT.

The Daikin Altherma 3 H HT is the first Daikin outdoor unit with a distinctive design. Its single fan reduces the noise level and its black front grill makes the unit fit into any environment.

All these dedicated components were specially developed in-house to make the Daikin Altherma 3 H HT unique.

**Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.**

## BLUEvolution

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is the first company in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO<sub>2</sub> emissions.

Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO<sub>2</sub> emission targets.

**R-32**

## Design and space-saving installation

Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

The black front grill stretches horizontally making the fan inside invisible. The mat grey casing reflects the colour of the wall behind for more discretion. This unit received the IF and reddot design awards 2019.



reddot design award  
winner 2019







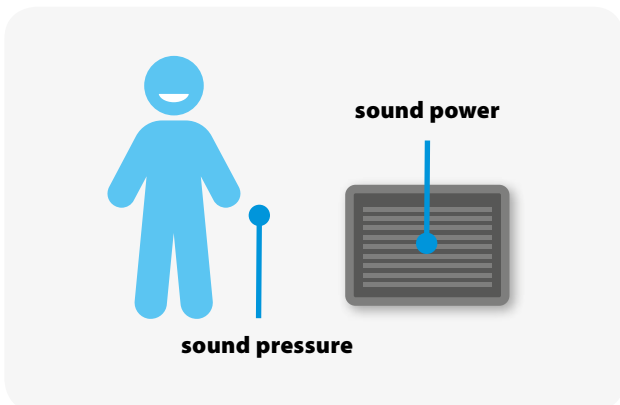
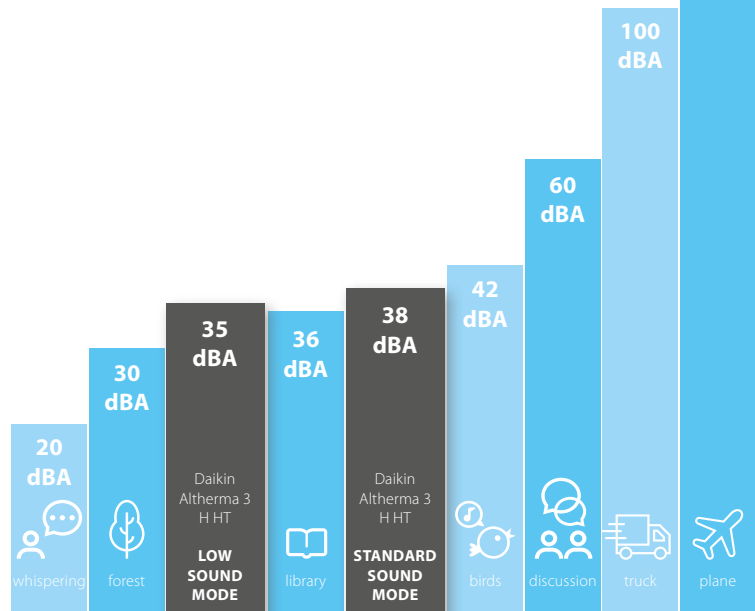
Meeting modern society's expectations

120 dBA

## Silence rhymes with comfort

The Daikin Altherma 3 H HT has been designed to reduce its acoustic level and meet the expectations of today's society.

The Daikin Altherma 3 H HT offers greater flexibility by having a low sound mode. In standard sound mode, the unit produces a sound pressure of 35 dBA at 3 metres, so somewhere between birds chirping and the inside of a library. On the other hand, the low sound mode reduces by 3 the decibels generated at 3 metres, representing a real reduction of half the sound level!



## The acoustic level can be evaluated in two ways

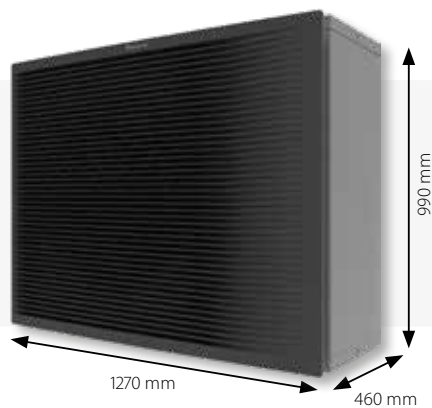
- › The **sound power** is generated by the unit itself, independently of distance and environment
- › The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

# One solution, multiple combinations

The Daikin Altherma 3 H HT range can be combined with three different indoor units to connect to the outdoor unit, offering specific features to ensure heating, cooling and domestic hot water in your home.

## Outdoor unit

The outdoor unit is available in 3 classes 14-16-18 kW.



## Integrated DHW stainless steel tank model

This model is a compact unit with a small footprint of 595x625mm. The unit is equipped with a tank of 180 or 230L to answer your domestic hot water demand. Optionally, you can choose the cooling or the bizonne functions.



## Integrated ECH<sub>2</sub>O DHW tank model

The ECH<sub>2</sub>O unit is equipped with a thermal DHW tank of 300 or 500L that can be connected to thermal solar panels. Optionally, you can choose the cooling function.



## Wall mounted model

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. Optionally, you can choose the cooling function.



# Get the comfort you deserve with the best functionalities

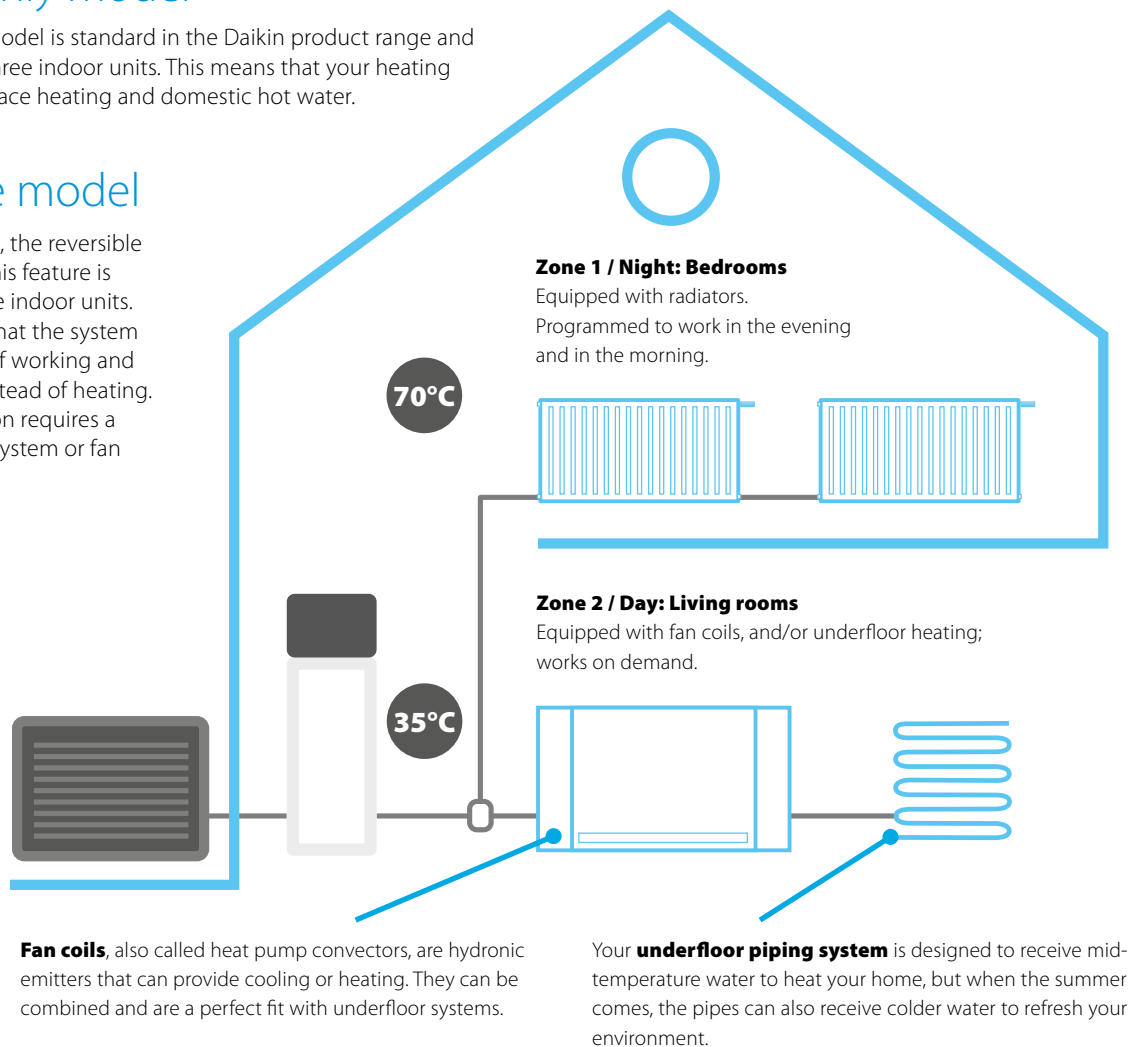
Choose from the Daikin "Three Pluses" the functionality that best fits your needs. The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.

## + Heating only model

The heating only model is standard in the Daikin product range and is available for all three indoor units. This means that your heating system provides space heating and domestic hot water.

## + Reversible model

If you need cooling, the reversible model is for you! This feature is available in all three indoor units. Reversible means that the system can invert its way of working and provide cooling instead of heating. The cooling function requires a underfloor piping system or fan coil units.



## + Bizone model

Only the integrated floor standing unit is optionally equipped with a bizone function: you can choose two independent zones with different emitters that need a different temperature level in different rooms (example: underfloor system in the living room and radiators in the bedroom upstairs).

The 2 zones can also be managed independently: deactivate heating on the first floor during the day in order to reduce over consumption.



# Always in control, no matter where you are

## Madoka, your intuitively designed thermostat

Intuitive control with a premium design: the smooth curves of the Daikin Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large easy to read numbers, the controller features are accessed using three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

### Easily set operating parameters

Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.

### Three colours to match any interior design

No matter what your interior design, Madoka will match it. Silver gives an additional touch to stand out in any interior or application, while black is an ideal match for darker, stylish interiors. White offers a sleek, modern look.



# Madoka

There is only one first choice: [www.daikin.eu](http://www.daikin.eu)

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