

Daikin Altherma 3 R

# Product leaflet 2022



## Low temperature air-to-water heat pump

World's first high capacity R-32 refrigerant split heat pump with cooling

### THE POWER PACT

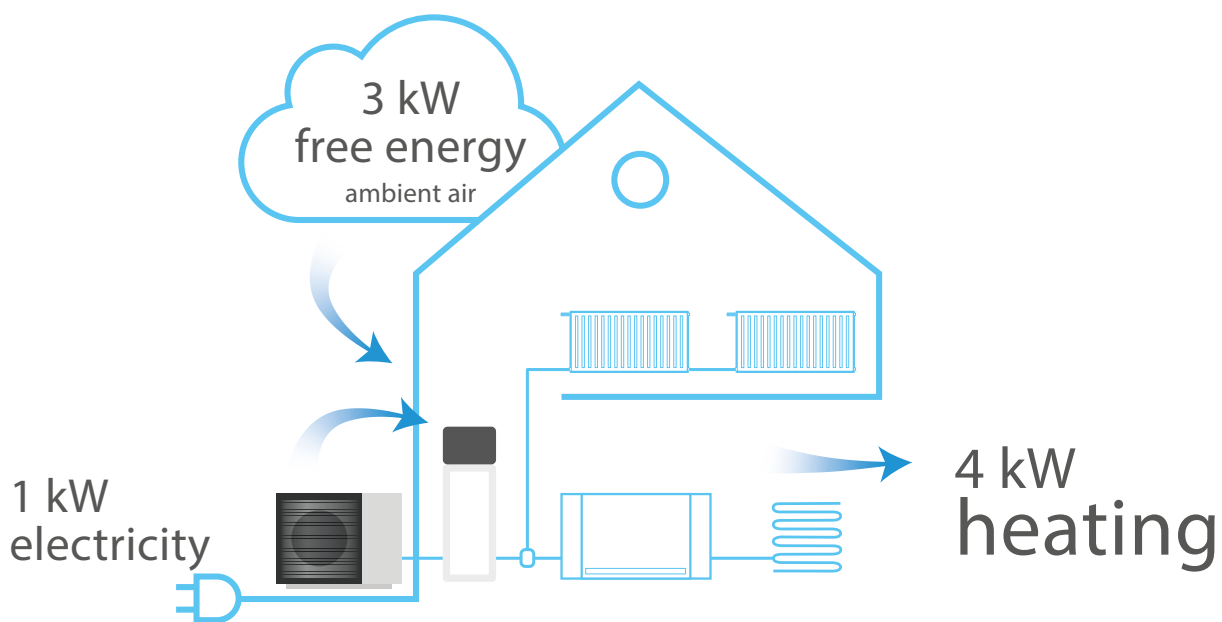


ERLA-D series

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

## How does it work?

The Daikin Altherma outdoor unit extracts up to 75% of its energy in the outside air to provide heating, cooling and hot water, 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.





## Improved compactness

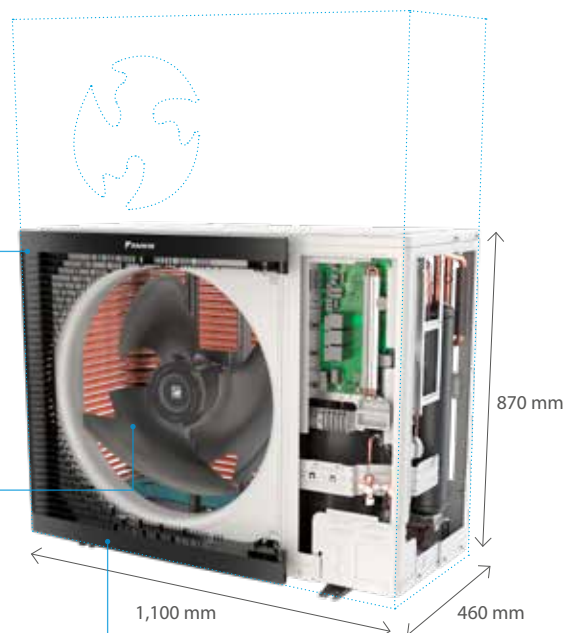
The Daikin Altherma 3 R is the world's first high capacity R-32 refrigerant split unit, providing cooling next to heating and domestic hot water.

## A redesigned casing

A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit. The light grey casing reflects the installation space to help the unit blend into any environment.

## A single fan for high-capacity units

Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.



## Ideal for small spaces

Thanks to its single fan, the height is reduced, and its black grille makes it fit discretely in all kind of exteriors.

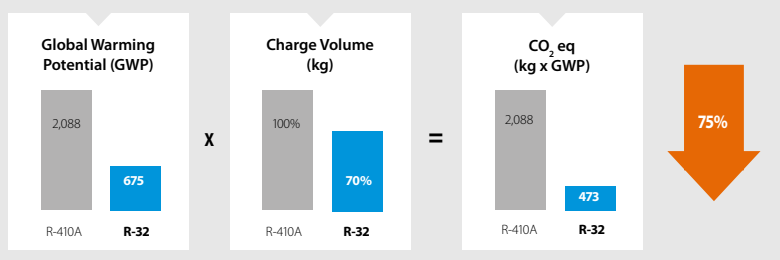


Check out the improved compactness!

## Running on refrigerant R-32

Daikin is a pioneer in launching 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.

Reduced environmental impact: CO<sub>2</sub>eq > 75% reduction  
 > GWP: R-410A: 2,088 > R-32: 675  
 > 30% less refrigerant charge needed



**R-32** **BLUEVOLUTION**



## Meeting modern society expectations

Outside, the outdoor unit blends in thanks to its black front grille. The horizontal lines of the grille hides the fan from view, making it more discreet.

In Europe, design has a huge importance. That's why, at Daikin, we have developed a new design line for outdoor units.

Customers invest in their property to make it look better and more sustainable, heat pumps must tick all boxes.

## Discretion and peace of mind

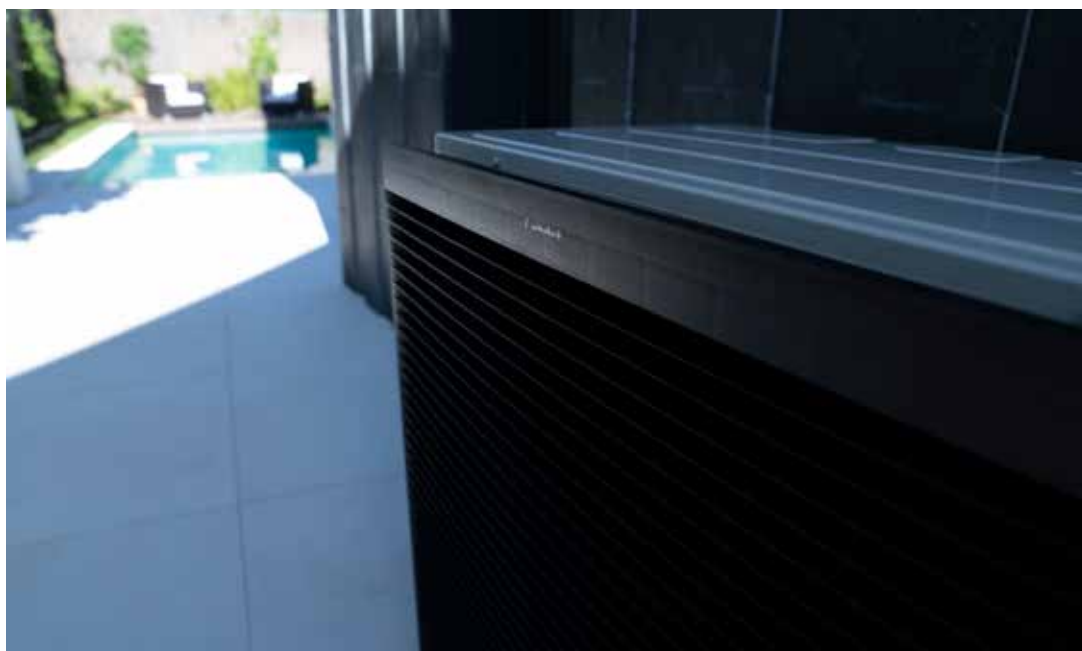
As a third generation Daikin Altherma heat pump, indoor units gather all the installation and design improvements, rewarded in 2018 by RedDot, iF and Plus X awards.

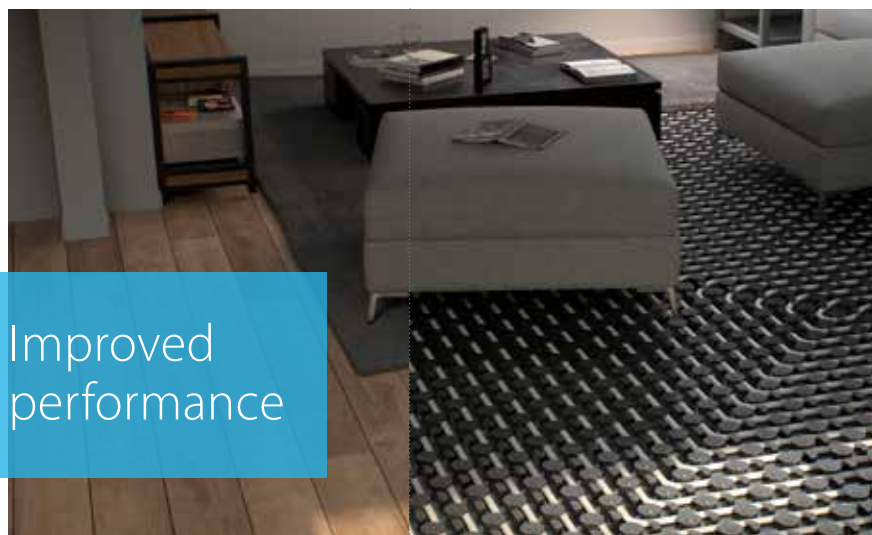
Daikin indoor units can be installed in different places, garage, basement, utility room or even a kitchen while still blending in with the indoor design.

The units have also been designed to ease the work of the installer and therefore contribute to your peace of mind!



Check out the improved design!





Improved performance

Underfloor heating



Heat pump convector

## All year round comfort

Daikin Altherma 3 R provides heating efficiently, both for space or domestic water.

With a leaving water temperature of up to 60°C at -7°C outside, the unit is intended for new buildings. The unit operations are ensured down to -25°C outside temperature.

As a low temperature heat pump, it is particularly efficient with low temperature emitters, such as underfloor heating and heat pump convectors, both available in the total Daikin solution.

## World first in its category

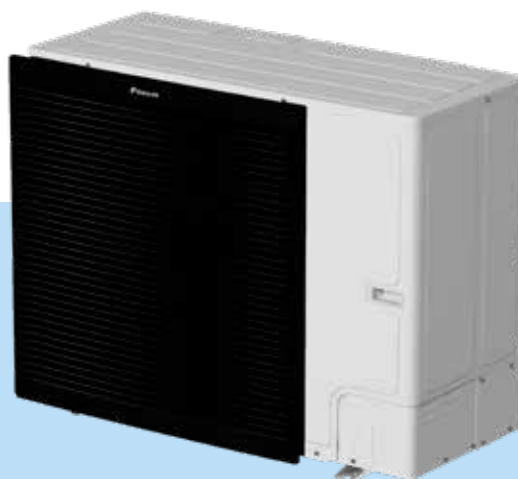
Indeed, Daikin Altherma 3 R is the world first high capacity R-32 refrigerant split heat pump to provide cooling, next to heating!

A patent is also pending for the plate heat exchanger, positioning once more Daikin as the heat pump leader (patent application n°EP3839360).



Check out the improved performance!

## Daikin Altherma 3 R, a complete offer



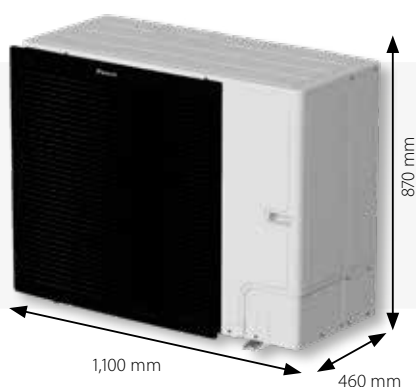
- ✓ Space Heating
- ✓ Space Cooling
- ✓ Domestic hot water
- ✓ App and voice control
- ✓ Flexible emitter choice
- ✓ All year round peace of mind

# One solution, multiple combinations

The Daikin Altherma 3 R 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 11-14-16 kW.



## Integrated DHW stainless steel tank model

This model is a compact unit with a small footprint of 595x634mm. 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 bizon functions.



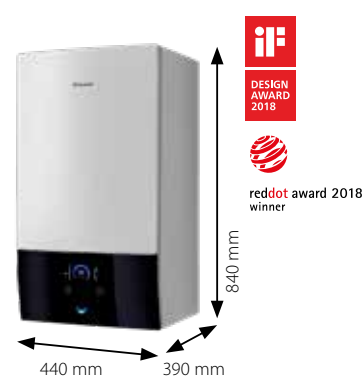
## Integrated ECH<sub>2</sub>O DHW tank model

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

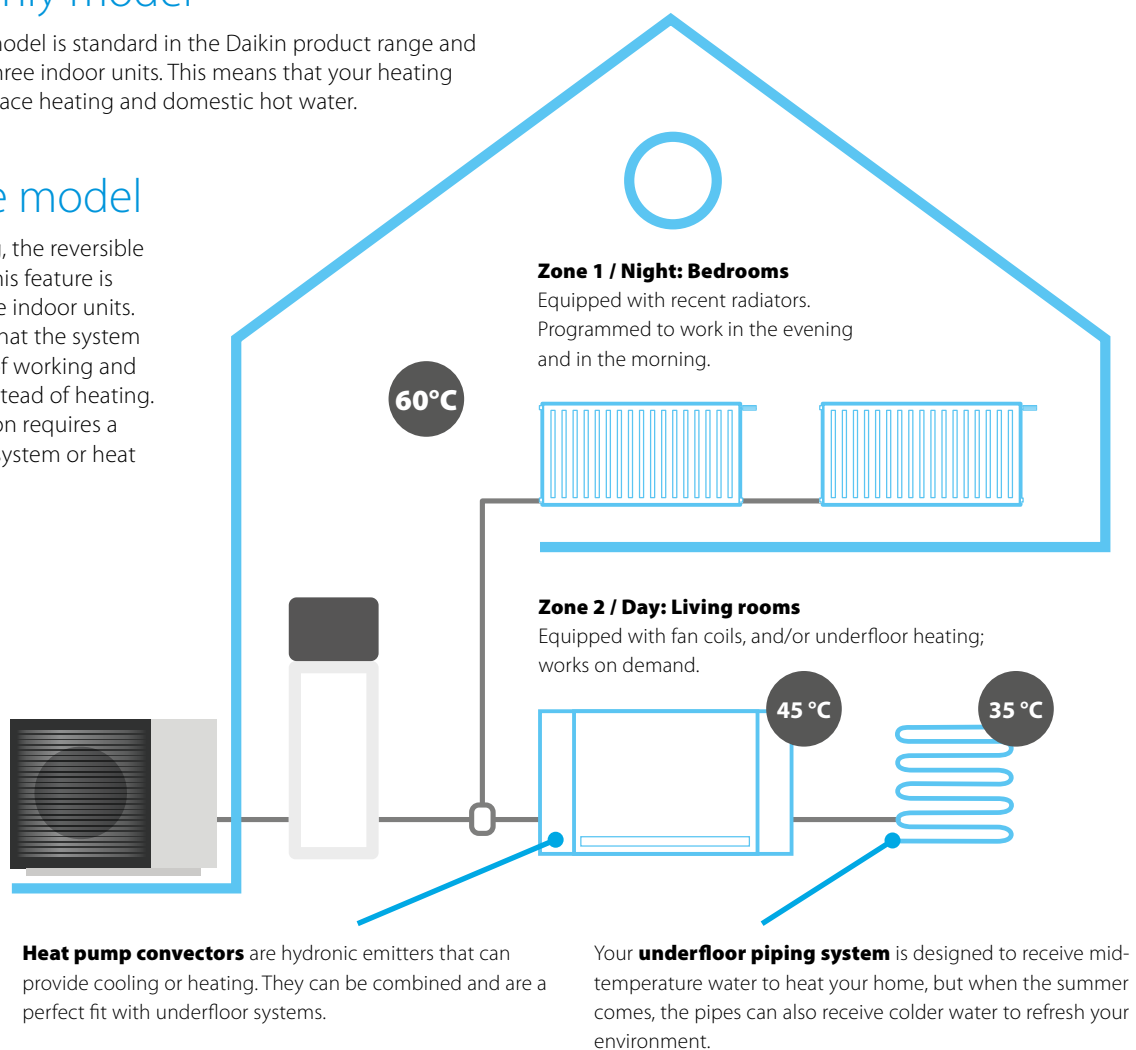
Choose from the Daikin "Three Pluses" the functionality that best fits your needs. The indoor units come in 3 possible versions: heating only, reversible and bizon, giving you the opportunity to tailor your Daikin heating system.

## + 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 heat pump convectors.



## + Bizon model

Only the integrated floor standing unit is optionally equipped with a bizon 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.



# Onecta App, now available with voice control

Manage your heating  
system from your  
smartphone.

## Voice control

To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before. Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

## Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

## Control

Customise the system to fit your lifestyle and year-round comfort levels.

## Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.



onecta

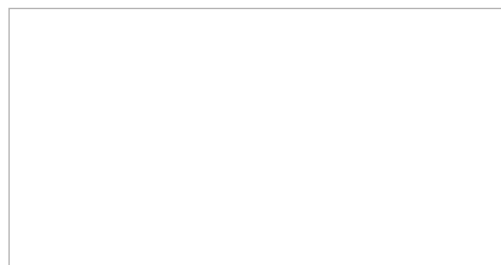
Scan the QR code to  
download the app now



Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.



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