



# Daikin Altherma 3 GEO

## Ground Source Heat Pump



Groundbreaking innovation



The Daikin Altherma ground source heat pump uses geothermal energy and Daikin's inverter heat pump technology to deliver heating and hot water in all climates.



### Space heating

During winter



### Space cooling

Active cooling with high efficiency



### Domestic hot water production

Integrated 180L stainless steel tank



Leaving water temperature up to 65°C, so the unit can work with underfloor heating but also with radiators.



## Renovation and new build

Suitable for renovation: thanks to a high water temperature of 65°C output, the unit fits with classic radiators.

Suitable for new build: the Daikin Altherma 3 geo is also combinable with fan coils and underfloor piping.

### BLUEEVOLUTION

Bluevolution technology using R-32, environmentally friendly refrigerant with a lower GWP, reducing its CO<sub>2</sub> equivalent by 73% compared to its predecessor R-410A.



## Electricity savings

The continuous inverter operation allows a high modulation range down to 0.85kW, avoiding the unit to use more electricity to stop and start.



Daikin Altherma HPC provides heating or cooling for living rooms.

An 80-100 metre borehole in the ground creates a constant inlet temperature.

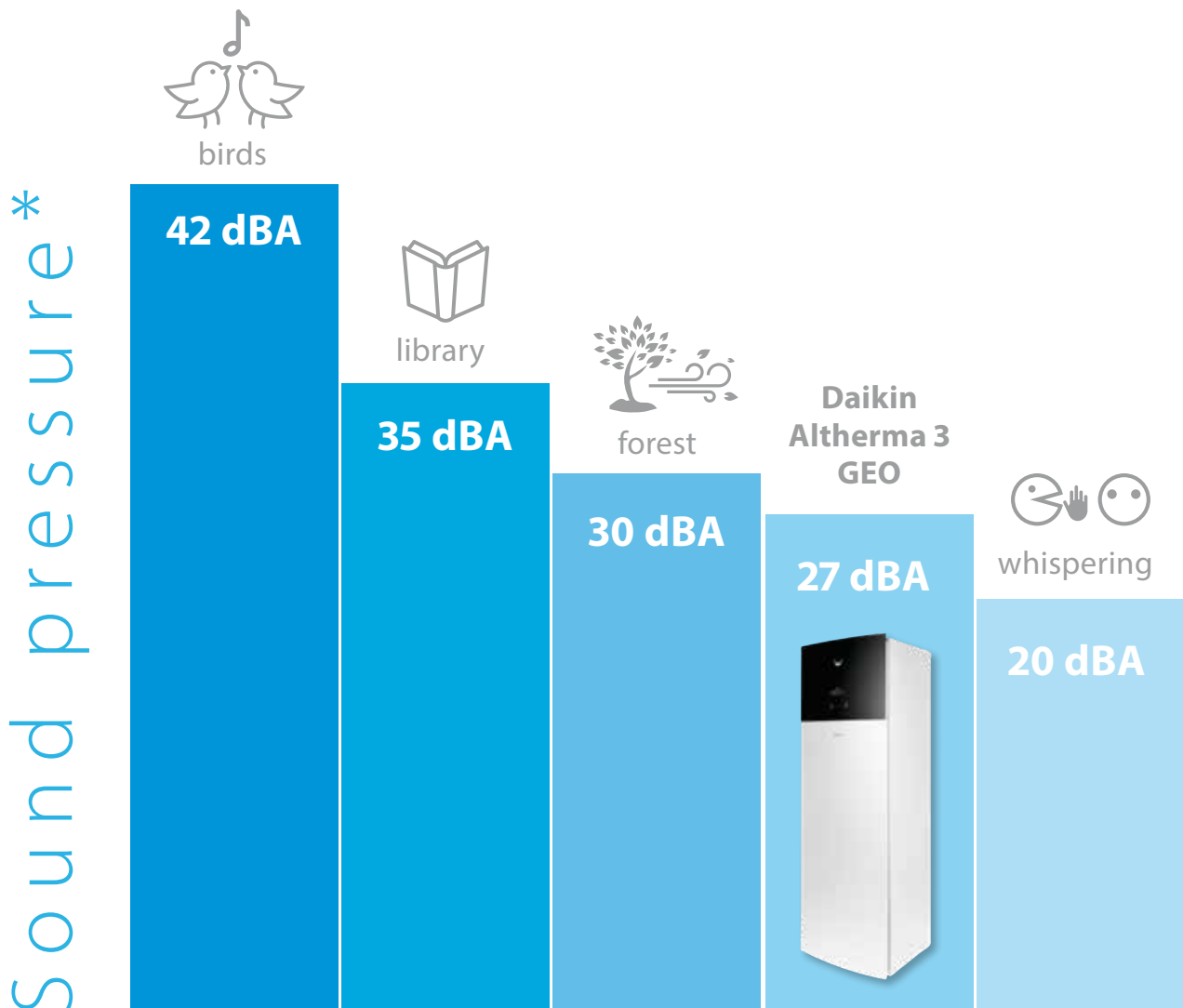
# Care for peace of mind



The Daikin Altherma 3 GEO is designed to perform the best efficiencies in what matter the most: quietness and connectivity.



## Extremely quiet operation



\*at 1 meter.

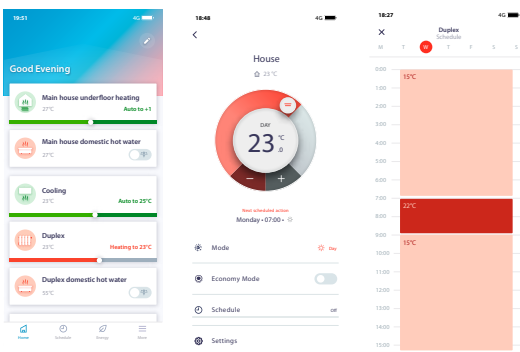


## Built-in connectivity

Control your home climate from any place, at any time



## Daikin Residential Controller



**Always in control.**  
Control your climate from any place, at any time.



Monitor the status of your heating system



Control the operation mode and set temperature



Schedule the set temperature and operation mode

## Madoka wired remote controller for Daikin Altherma

A new generation of user interface, redesigned and intuitive.

- ✓ Intuitive control with a premium design
- ✓ Three colors to match any interior design
- ✓ Easily set operation parameters



BRC1HHDW



BRC1HHDS



BRC1HHDK





# Groundbreaking innovation

Quick and easy installation thanks to factory-fitted piping on top of the unit, pre-cabled electrical connections and reduced overall weight.

All pipe connections on top, paired in and out



Standard electrical connections pre-cabled



Can easily be installed in confined spaces thanks to a small footprint and integrated handles



666 mm

# Advanced user interface

## The Daikin Eye

The intuitive Daikin eye shows you in real time the status of your system.



### Blue:

When the Daikin Eye indicates a blue colour, it means the boiler is functioning properly. The Daikin Eye will flash on and off when it's running on stand by mode.



### Red:

When the Daikin Eye indicates a red colour, it means the boiler is out of commission and requires a maintenance check.

## Quick to configure

Log in and you'll be able to completely configure the unit via the new user interface in 9 steps. You can even check if the unit is ready for use by running test cycles. You can upload the settings on a USB stick and download it directly into the unit, or via the cloud.

## Easy operation

Work super-fast with the new user interface. It's easy to use with just a few buttons and 2 navigational knobs.

## Beautiful design

The user interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.



1891 mm

597 mm

Removable compressor module, reducing the overall weight by 70 kg



# Daikin Altherma 3 GEO

Ground source heat pump for heating, cooling & hot water

- › Top-level seasonal efficiency thanks to our inverter heat pump technology providing the highest savings on running costs.
- › Delivering temperatures up to 65°C at high efficiency, the R-32 Daikin Altherma 3 GEO is suitable for underfloor heating/cooling, fan coils and radiators.
- › Integrated indoor unit: all-in-one floor standing unit including the stainless steel domestic hot water tank saves space and installation time.
- › The unit has a similar footprint when compared to other household appliances.
- › Reversible heat pump, allowing heating and cooling.



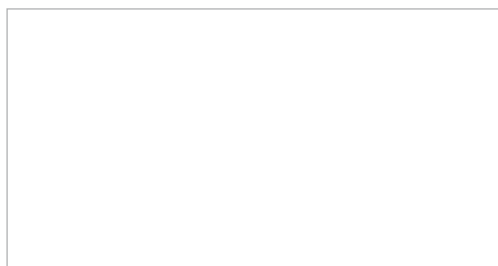
up to

| Indoor Unit                     |                                | EGSA   | H06D9W                   | X06D9W(G) | H10D9W | X10D9W(G) |
|---------------------------------|--------------------------------|--|--------------------------|-----------|--------|-----------|
| Heating capacity                | Min.                           | kW   | 0.85                     |           |        |           |
|                                 | Nom.                           | kW   | 3.34                     |           | 5.48   |           |
|                                 | Max.                           | kW   | 7.98                     |           | 9.55   |           |
| Power input                     | Nom.                           | kW   | 0.74                     |           | 1.17   |           |
| COP                             |                                |  | 4.51                     |           | 4.70   |           |
| Space heating                   | Average climate water outlet   | General ηs (Seasonal space heating efficiency) | 150                      | 143       | 160    | 154       |
|                                 | 55°C                           | Seasonal space heating eff. class              | A++                      |           | A+++   |           |
|                                 | Average climate water outlet   | General ηs (Seasonal space heating efficiency) | 214                      | 199       | 210    | 200       |
| Domestic hot water heating      | 35°C                           | General Declared load profile                  | A+++                     |           | L      |           |
|                                 | Average climate                | ηwh (water heating efficiency)                 | 117                      |           | A+     |           |
|                                 |                                | Water heating energy efficiency class          |                          |           |        |           |
| Space cooling                   | Medium temperature application | General SEER                                   | -                        | 15        | -      | 15        |
|                                 |                                | Pdesign  | -                        | 8         | -      | 8         |
|                                 | Low temperature application    | General SEER                                   | -                        | 14        | -      | 14        |
|                                 |                                | Pdesign  | -                        | 8         | -      | 8         |
| Casing                          | Colour                         | White or Silver-grey                           |                          |           |        |           |
|                                 | Material                       | Precoated sheet metal                          |                          |           |        |           |
| Dimensions                      | Unit                           | HeightxWidthxDepth                             | 1,891x597x666            |           |        |           |
| Weight                          | Unit                           |  | 222                      |           |        |           |
| Tank                            | Water volume                   |  | 180                      |           |        |           |
|                                 | Insulation                     | Heat loss                                      | 1.2                      |           |        |           |
|                                 | Corrosion protection           |  | Pickling                 |           |        |           |
| Operation range                 | Installation space             |  | 5 / 35                   |           |        |           |
|                                 | Brine side                     |  | Min.~Max. °C             |           |        |           |
|                                 | Heating                        |  | -10 / 30                 |           |        |           |
|                                 | Domestic hot water             |  | 5 / 65                   |           |        |           |
|                                 | Water side                     |  | Min.~Max. °C             |           |        |           |
| Refrigerant                     | Type                           |  | R-32                     |           |        |           |
|                                 | GWP                            |  | 675                      |           |        |           |
|                                 | Charge                         |  | 1.70                     |           |        |           |
|                                 | Charge                         |  | TCO <sub>2</sub> Eq 1.15 |           |        |           |
| Sound power level               | Nom.                           | dBA  | 39.0                     |           | 41.0   |           |
| Sound pressure level at 1 meter | Nom.                           | dBA  | 27.0                     |           | 29.0   |           |
| Power supply                    | Name/Phase/Frequency/Voltage   |  | 3~/50/400 or 1~/50/230   |           |        |           |
| Current                         | Recommended fuses              |  | 3P 16A or 1P 32A         |           |        |           |

## Options

| Type                   | Material name                  |               |
|------------------------|--------------------------------|---------------|
| Controls               | Remote user interface          | BRC1HHDAA/S/W |
|                        | Room thermostat (wired)        | EKRTWA        |
|                        | Room thermostat (wireless)     | EKRTR1        |
| Adapter                | Cascade control                | EKCC8-W       |
|                        | Gateway                        | DCOM-LT/IO    |
|                        | Gateway                        | DCOM-LT/MB    |
| Sensor                 | Demand PCB                     | EKRP1AHTA     |
|                        | Digital I/O PCB                | EKRP1HBAA     |
| Valve                  | Remote indoor sensor           | KRCS01-1      |
|                        | External sensor                | EKRTETS       |
| Others                 | Reduce power limitation sensor | EKCSSENS      |
|                        | Valve kit                      | EKVK1A/2A/3A  |
|                        | PC cable                       | EKPCCAB4      |
|                        | Ground source filling kit      | KGFSILL2      |
|                        | Hydromodule replacement        | EKGSHYDMOD    |
|                        | Separate power supply BUH      | EKGSPOWCAB    |
|                        | Magnetic filter Fernox         | K.FERNOXTF1   |
| Magnetic filter Fernox | K.FERNOXTF1FL                  |               |

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