

# Daikin Altherma HT Air Source Heat Pump

**INVERTER** THE ENERGY EFFICIENT HOME HEATING SYSTEM



Daikin Altherma is a highly flexible, energy efficient home heating system that extracts the heat from the outside air, raises this heat to a higher temperature and then distributes warmth around the home. At the heart of the system lies an air to water heat pump.

Because of this advanced technology, three quarters of the heat generated by the Daikin Altherma system is from a renewable energy source, the air around us, and therefore absolutely free of charge! The Daikin Altherma air to water heat pump is today's answer to the current and future problems associated with conventional heating systems, such as, increasing primary energy costs and an unacceptably high environmental impact.

## LESS ENERGY, PLEASANT WARMTH IN THE HOME

Daikin Altherma operates 3 to 5 times more efficiently than a traditional heating system based on fossil fuels or electricity. By making use of the heat in the outside air, you use far less energy while still enjoying a stable and pleasant level of comfort. Also, maintenance requirements are minimal ensuring low running costs. Thanks to the inverter technology and in-built weather compensation control Daikin Altherma uses; energy savings are even greater than most other heat pump systems.

## HIGH PERFORMANCE

Thanks to the cascade technology of Daikin Altherma HT, a temperature of 80°C can be reached without an additional electric heater. Daikin Altherma HT can be configured for use in both new and refurbishment applications, and connects to standard high temperature radiators. If you already have a heating system, there is no need to change your heat emitters.

## COMPLETE COMFORT FOR YOUR FAMILY

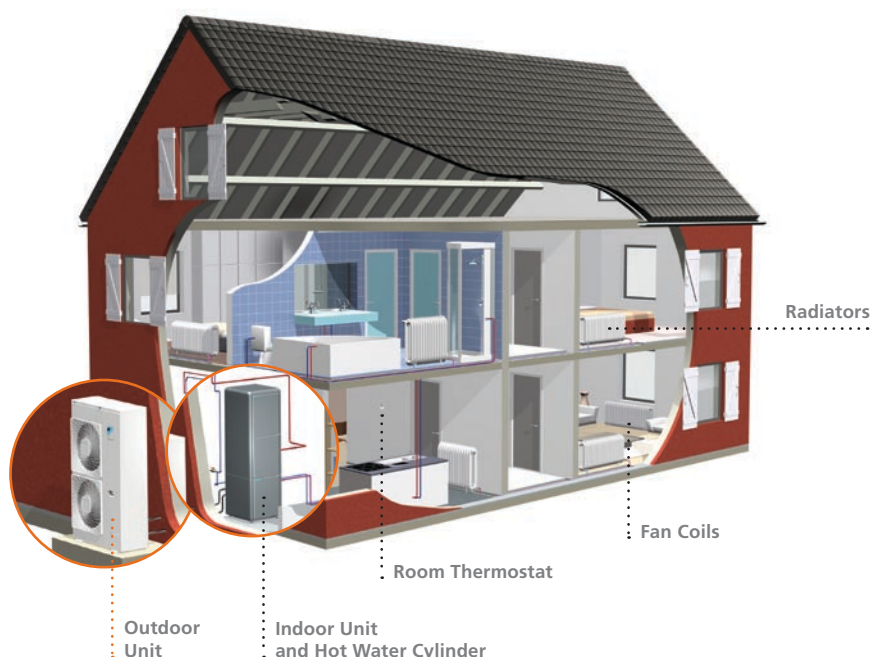
Daikin Altherma satisfies all your heating and domestic hot water requirements right through the year even on the coldest days. With a fully integrated control system, Daikin Altherma will provide consistent comfort with optimum efficiency.

- ✓ Drop in replacement for existing boiler
- ✓ 30 – 50% reduction in CO<sub>2</sub> emissions
- ✓ Low running costs
- ✓ Low maintenance
- ✓ No groundwork i.e. trenches or boreholes
- ✓ No gas supply, flues or ventilation required
- ✓ No fuel storage tanks required
- ✓ Comparable installation costs to gas fired boilers
- ✓ Suitable for both apartments & houses
- ✓ Single phase power supply with low starting current
- ✓ Weather compensation built in as standard
- ✓ Helps achieve 3 stars rating or higher in the code for sustainable homes
- ✓ Reduced VAT for domestic applications – down to 5%

| COMBINATION OUTDOOR INDOOR |                |     |                                  |               |               |
|----------------------------|----------------|-----|----------------------------------|---------------|---------------|
| OUTDOOR UNIT               |                |     | ERSQ011AAV1                      | ERSQ014AAV1   | ERSQ016AAV1   |
| SINGLE PHASE               |                |     |                                  |               |               |
| Nominal capacity           | Heating        | kW  | 11                               | 14            | 16            |
| Nominal input              | Heating        | kW  | 3.57                             | 4.66          | 5.57          |
| COP                        |                |     | 3.08                             | 3.00          | 2.88          |
| Operation range            | Heating        | °C  | -20 to +20                       |               |               |
|                            | Domestic water | °C  | -20 to +35                       |               |               |
| Sound power level          | Heating        | dBA | 68                               | 69            | 71            |
| Sound pressure level       | Heating        | dBA | 52                               | 53            | 55            |
| Dimensions                 | HxWxD          | mm  | 1345 x 900 x 320                 |               |               |
| Weight                     |                | kg  | 120                              |               |               |
| Refrigerant charge         | R-410A         | kg  | 4.5                              |               |               |
| Power Supply               |                |     | 1~/230V/50Hz                     |               |               |
| Recommended fuses          |                | A   | 32                               |               |               |
| INDOOR UNIT                |                |     | EKHBRD011AAV1                    | EKHBRD014AAV1 | EKHBRD016AAV1 |
| FUNCTION HEATING ONLY      |                |     |                                  |               |               |
| Dimensions                 | HxWxD          | mm  | 705 x 600 x 695                  |               |               |
| Weight                     |                | kg  | 144.25                           |               |               |
| Leaving Water Temp         |                | °C  | 25-80 without electrical heating |               |               |
| Drain Valve/Fill Valve     |                |     | Yes                              |               |               |
| Material                   |                |     | Precoated sheet metal            |               |               |

Measuring conditions - EW: 55°C; LW: 65°C; dT: 10°C; ambient conditions: 7°CDB/6°CWB

| COMBINATION TABLE INDOOR - ACCESSORIES  |                 | EKHBRD011AAV1 | EKHBRD014AAV1 | EKHBRD016AAV1 |
|---|-----------------|---------------|---------------|---------------|
| Stainless steel DHW cylinder (unvented) | EKHTSU200AA     | •             | •             | •             |
|   | EKHTSU260AA     | •             | •             | •             |
| Wired remote control                    | EKRTR           | •             | •             | •             |
| Wireless remote control                 | EKRTR + EKRTETS | •             | •             | •             |



- ✓ Highly efficient: CoPs of over 3 in high temperature
- ✓ Cascade technology: 80°C can be reached without an additional electric heater
- ✓ No loss of capacity in the UK climate
- ✓ Metallic casing newly designed
- ✓ Installation benefits thanks to design of hydrobox and hot water cylinder Hydraulic components already included
- ✓ Fast hot water cylinder recovery times

[www.altherma.co.uk](http://www.altherma.co.uk)

Visit [www.microgenerationcertification.org](http://www.microgenerationcertification.org) for a list of the latest MCS certified Daikin heat pumps

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Daikin units comply with the European regulations that guarantee the safety of the product.