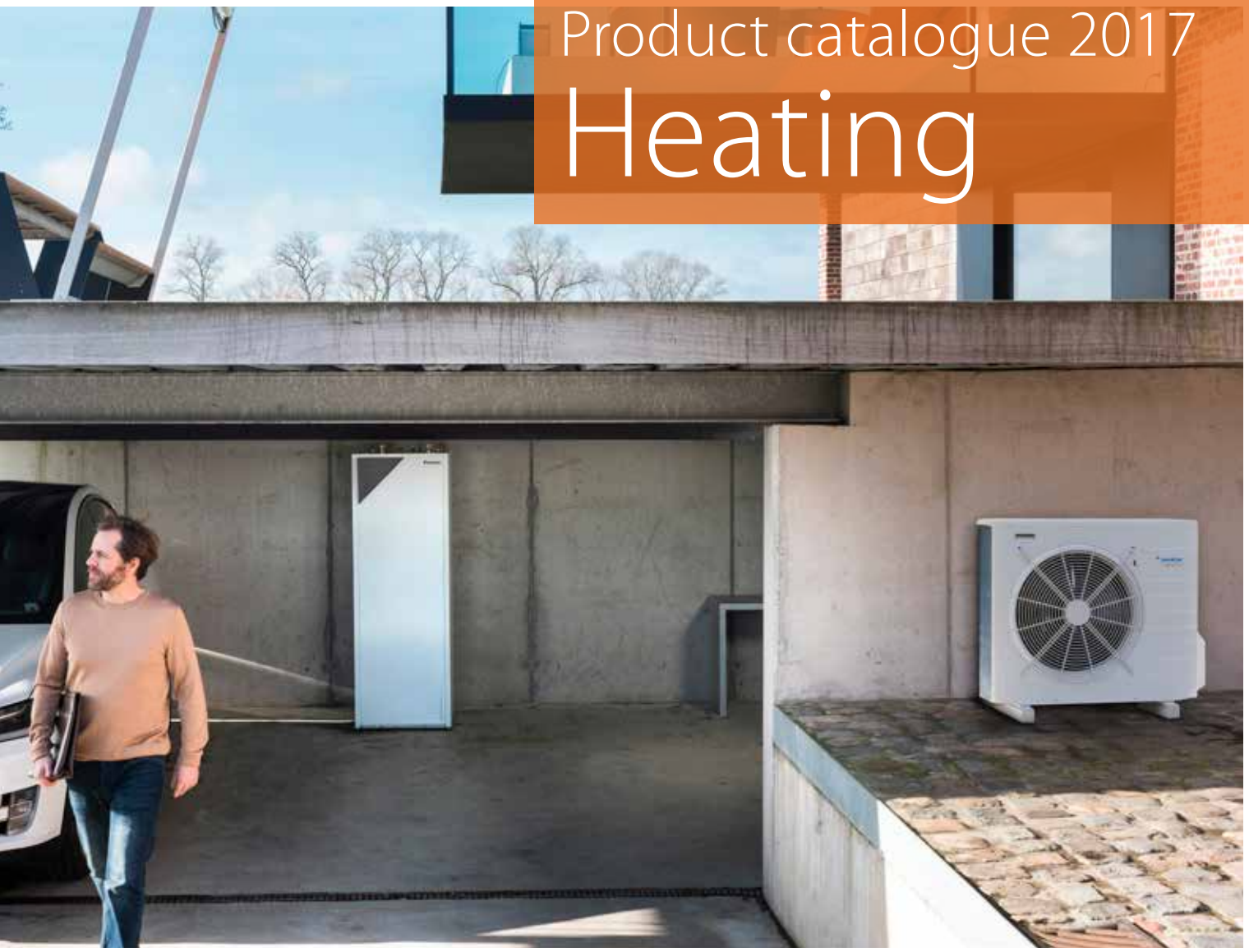
DAIKIN

altherma

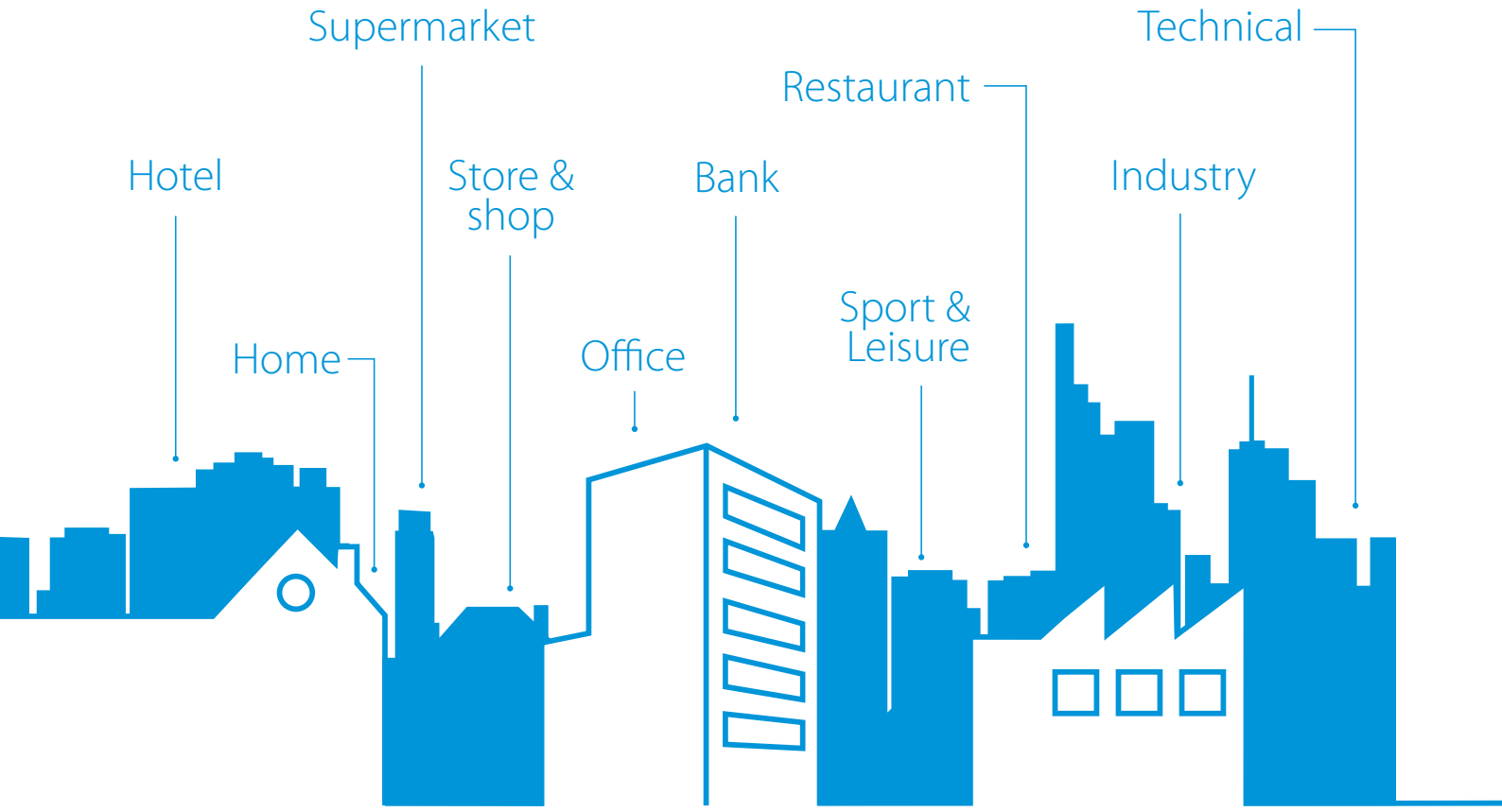
Product catalogue 2017

# Heating



All-in-one comfort for residential applications

# Daikin world




The perfect working environment is essential for all businesses. From supermarkets to offices, from public buildings to hotels, from restaurants to shops it is essential that the quality of the air is optimised at all times – but no space is used in exactly the same way and that calls for flexible, tailored and economic solutions. Daikin, the innovation leader for more than 90 years, understands this and its 'total solution' concept is built around customised solutions for individual clients. Whether cooling, heating, ventilation, air curtains or refrigeration with intelligent control systems. Daikin has the units, the experience and the solution for you. Learn all about our solutions for your business and read more about customer experiences.

# Table of content

10 years
Daikin Altherma

# A decade of comfort

## Daikin celebrates the 10th anniversary of Daikin Altherma

**In 2006, Daikin launched the first heat pump: Daikin Altherma. Over the last decade, more than 350,000 customers chose to install this innovative heat pump, making it a market leader in heating and cooling across Europe. Daikin celebrates the success of the Daikin Altherma heat pump for its ability to achieve more energy efficiency with low environmental impact.**

### The best-selling heat pump on the market

With more than 350,000 units sold, Daikin Altherma continues to be a top selling heat pump on the market because of Daikin's high quality standards and extensive experience in the HVAC-R industry. Every day customers are provided with the best usability and maximum energy efficiency on the market.

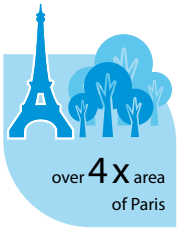
### Developed in Europe for Europe

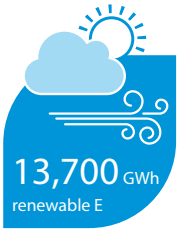
Daikin Altherma's success in the European market is a reflection of its 'made in Europe for Europe' integrity. When Daikin Altherma launched in 2006, Daikin also established its European Development Centre, (R&D). Over the last 10 years, the centre has pioneered and implemented a variety of high-tech improvements designed to meet Europe's climate needs. The research conducted by the EDC is the reason why Daikin Altherma performs just as well in cold Scandinavian winters, as it does in hot Mediterranean summers.

### A positive impact on the environment

Daikin pioneered the integration of renewable energy sources. With a decade's worth of satisfied customers and an enormously positive impact on our planet, Daikin Altherma is a celebration of responsible heating and cooling for all of Europe.

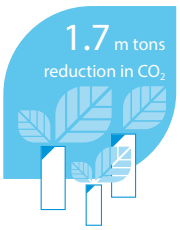
**Eco-friendly technology**
We saved as much $CO_2$ as a forest over 4 times the size of Paris would consume

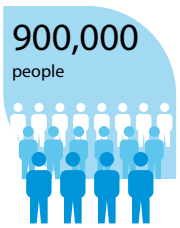



**Sustainable energy production**
We produced 13,700 GWh of renewable energy

**Low emission levels**
We reduced our $CO_2$ emissions by 1.7 million tons




**A growing community**
We provided 900,000 people with responsible heating, hot water and cooling

# A leader in energy efficiency

To promote the ecological design of energy related products (ErP) in Europe, the EU Commission issued the Ecodesign Directive. This directive applies to all EU Member States and introduces minimum efficiency standards for heat generators and water heaters.

To ensure these energy efficiency standards are met, the Ecodesign Directive requires heating products to display a uniform energy label. These energy labels showcase the energy efficiency of a heating product, which allows consumers to easily compare models.

To help installers transition to the next generation of energy efficiency standards, Daikin offers:
› specialist training courses
› informative literature
› online resources

## How energy labels work

› As an installer, it's vital to understand how energy labels are created and tailored for heating systems
› Labeling applies to individual products (product labels) and heating systems (package labels)
› A data sheet detailing the efficiency specifications must also accompany each item

### Product labels

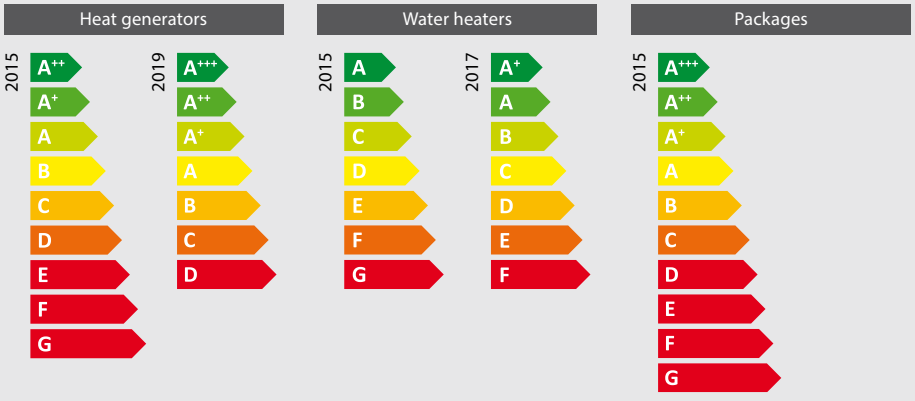
The EU Directive defines two product groups:

**Lot 1: Heat generators**
› Space heating only
› Combi heaters for space heating and domestic hot water heating (gas, oil and electric boilers, heat pumps and CHP units)

**Lot 2: Water heaters and tanks**
› traditional water heaters
› solar water heaters
› heat pump water heaters
› storage tanks

### Package labels

Combination systems, such as a heat generator with room control or solar thermal system, are referred to as packages. Package labels are calculated by combining the efficiency values of each included unit, and must be provided by the installer.



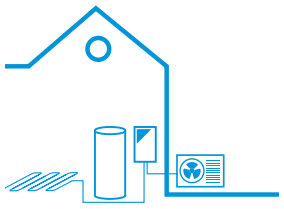

### From green to red

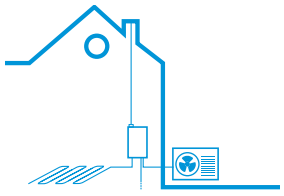
The same principle for refrigerators, washing machines and TV sets now applies to heating systems. Devices and appliances are organised by efficiency classes on a scale of A+++ to G. Dark green represents the highest level of efficiency, while dark red represents the lowest level. The scales differ for individual product groups.

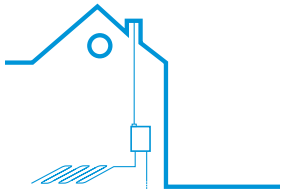
# Daikin heating systems

## Why choose a Daikin heating system?

- More than **50 years of experience** in heat pumps
- Innovative heating technologies to **reduce running costs** and optimise renewable energy usage
- Research and development **in Europe for Europe**
- A solution for any application
- Combinable with **all kinds of heat emitters**
- **Always in control, no matter where you are with an app**







## Solutions for space heating and domestic hot water

Air-to-water heat pump technology:
extracting heat from the outside air
› Guaranteed heating capacity down to -25°C; reliable operation during winter
› Optimise renewable energy with solar connection for electricity and domestic hot water support
› Compatible with ECH$_2$O thermal stores to provide additional domestic hot water comfort

Hybrid heat pump technology:
gas condensing technology combined with air-to-water technology
› Most economic operation mode is selected depending on energy prices, outdoor temperature and internal heat load
› Optimisation of dual technologies
› Compatible with ECH$_2$O thermal stores to provide additional domestic hot water comfort

Ground-to-water heat pump technology:
extracting heat from the ground
› Ideal for climates where the average winter ambient temperature drops below 3°C
› Stable underground temperatures achieve high seasonal efficiency

Gas condensing technology:
› New dual heat exchanger lowers heating and hot water costs
› Optional preassembled B-pack contains all components for a functional installation in one module. The flexibility of the unit means it can fit into limited spaces (also behind a boiler)
› Compatible with ECH$_2$O thermal stores to provide additional domestic hot water comfort

# $ECH_2O$ range:
## domestic hot water comfort

Domestic hot water is an important aspect to achieving the ultimate comfort at home. With Daikin's $ECH_2O$ range of thermal stores, your customer can expect semi-instantaneous domestic hot water at any time. Easy to install and energy efficient, the $ECH_2O$ range maintains high standards of water sanitation and safety. The $ECH_2O$ thermal store is a perfect match with any technology, including air–to-water heat pumps, hybrid heat pumps or boilers.

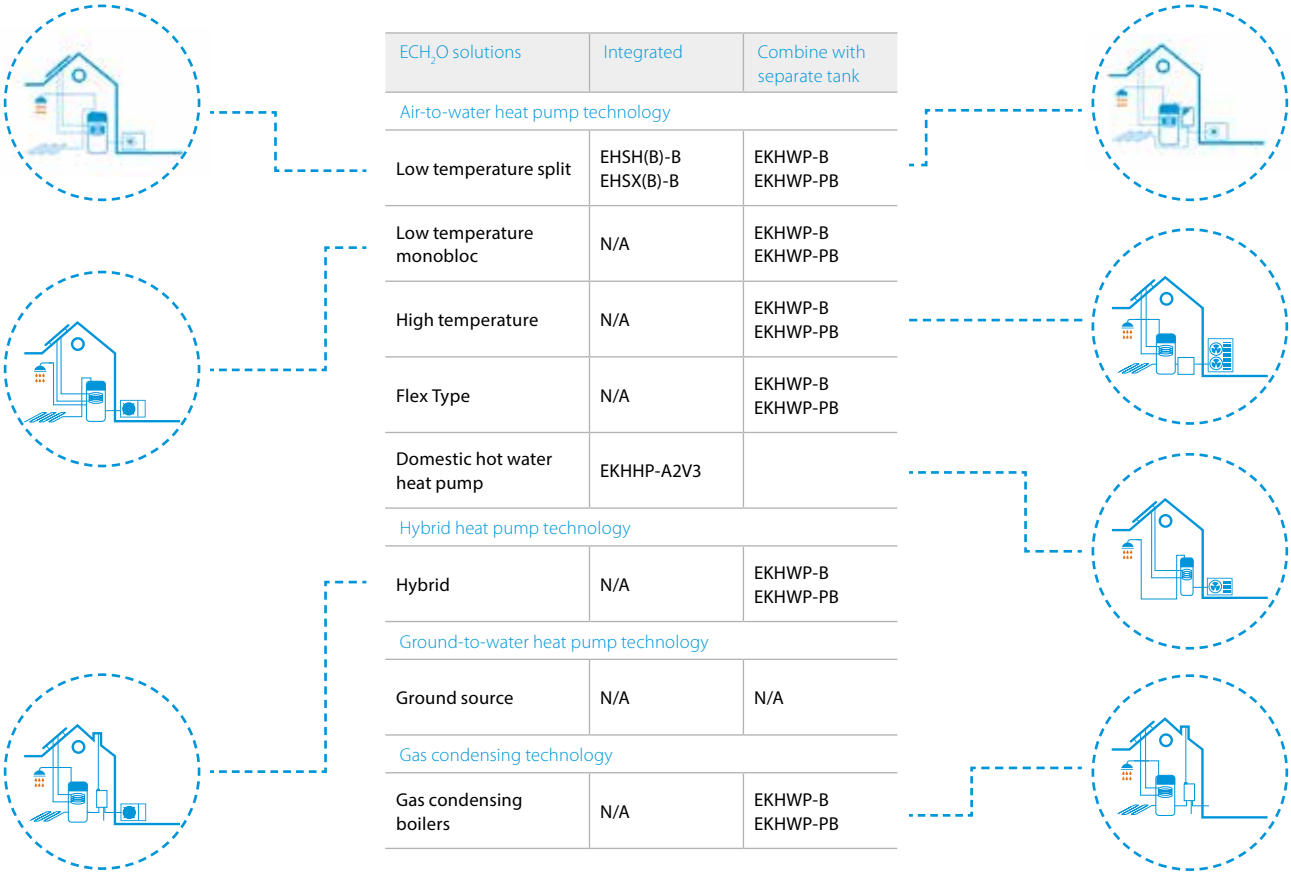
## The benefits

### Fresh water principle:
› Domestic hot water production on demand means fresh water at all times
› Minimum volume of stored domestic hot water prevents the risk of contamination and sedimentation

### Optimal domestic hot water performance
› Tapping performance for optimal domestic hot water comfort
› Slow temperature evolution to avoid sudden temperature drops

### Fit for the future: included today, activated 'tomorrow'
› Smart grid ready
Space heating and domestic hot water at lowest energy tariffs and energy storage
› Integrated solar energy: use solar thermal or PV energy for maximum use of renewable energy in space heating and domestic hot water. Maximised sage of self-produced thermal energy or electricity
› Integrate with other heat sources
- For new builds: use with a fireplace and water pocket
- For renovations: use with an existing boiler

### Flexible installation options
› Easy cascade: accessible connection to multiple heat pumps (working as one)
› Lightweight, robust and easy handling even with 500l storage tank



| $ECH_2O$ solutions | Integrated | Combine with separate tank |
|---|---|---|
| Air-to-water heat pump technology | | |
| Low temperature split | EHSH(B)-B<br>EHSX(B)-B | EKHWP-B<br>EKHWP-PB |
| Low temperature monobloc | N/A | EKHWP-B<br>EKHWP-PB |
| High temperature | N/A | EKHWP-B<br>EKHWP-PB |
| Flex Type | N/A | EKHWP-B<br>EKHWP-PB |
| Domestic hot water heat pump | EKHHP-A2V3 | |
| Hybrid heat pump technology | | |
| Hybrid | N/A | EKHWP-B<br>EKHWP-PB |
| Ground-to-water heat pump technology | | |
| Ground source | N/A | N/A |
| Gas condensing technology | | |
| Gas condensing boilers | N/A | EKHWP-B<br>EKHWP-PB |

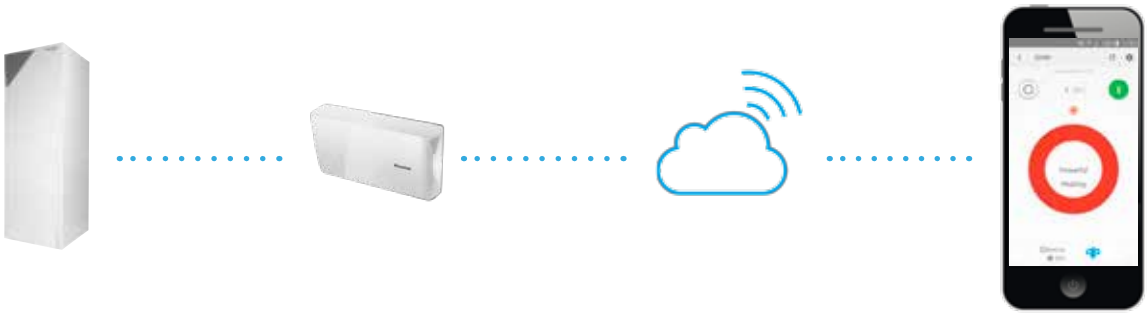
# Always in control,
## no matter where you are

**The Daikin Online Control Heating app is a multifaceted programme that allows customers to control and monitor the status of their heating system.**

### Control:
› The **operation mode** and set temperature
› Remotely control your system and domestic hot water
Third-party products and services integration via IFTTT

### Monitor:
› The status of your heating system
› The power consumption
› **Energy consumption graphs**

### Schedule:
› Schedule the set temperature and operation mode
› **Holiday mode**
› View in intuitive mode



### Main features
› 'Daikin Eye' (intuitive setting)
› IFTTT compatible*
› Tank temperature monitoring
› Equipped with GDPR (data protection)
› Remote firmware update of LAN Adapter
› Control over multiple unit locations

### Applicable Daikin units
› Daikin Altherma low temperature split
› Daikin Altherma low temperature monobloc (5-7 kW)
› Daikin Altherma ground source heat pump
› Daikin Altherma hybrid heat pump
› Wall mounted gas condensing boiler D2CND
› GCU ECH20

### Main functions
› Provides a quick overview of unit(s)
› Space heating and cooling settings
› Monitor domestic hot water settings, e.g. actual DHW tank temperature
› Schedule your unit(s) with up to 6 actions per day
› Weekly, monthly and yearly energy management settings
› Control over multiple unit locations


### PV connection
Customers can increase their consumption of self-produced electricity from their PV panels

Advantages:
› Lower running costs for your heat pump, as part of the Hybrid Multi
› Minimise power injection to the power grid

*IFTTT is a solution that connects compatible third-party products and services, such as smart metres, lights, thermostats, etc.

# Supporting tools

## Stand By Me,
## my climate of security

**With your customer's new Daikin installation and Stand By Me service programme, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market.**

### Free warranty extension

The first advantage of **Stand By Me** is a free warranty extension:

- ☑ applies to both labour and parts
- ☑ begins immediately after registration

### Quick follow-up by Daikin service partners

Daikin service partners are automatically notified when a customer registers their installation on **www.standbyme.daikin.eu** and needs maintenance.

Your customer is guaranteed:

- ☑ quick and reliable service
- ☑ management of all information related to their installation such as, registration documents, attendance records, maintenance records, etc.
- ☑ immediate access to the correct information contributes to flawless service

### Extended warranty on parts

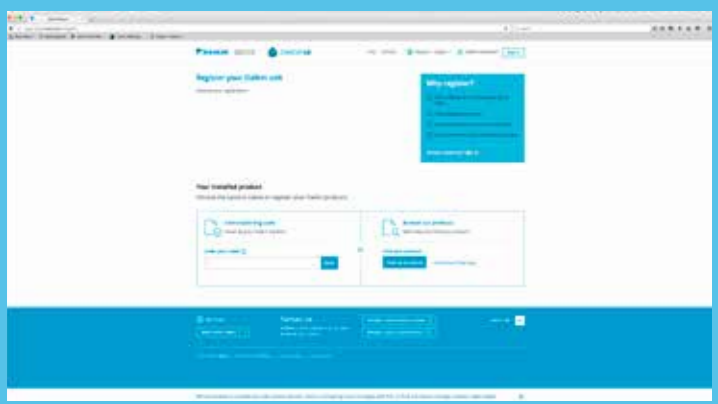
For a small fee, customers can extend the warranty on specific parts. **Stand By Me** guarantees:

- ☑ that each component is replaced quickly
- ☑ helps avoid financial surprises
- ☑ long life and smooth operation and all other benefits of a Daikin installation
- ☑ reliable service from official Daikin service partners

Daikin service partners work exclusively with Daikin parts and have all of the necessary technical knowledge to solve any issue that may arise

## Register your Daikin unit:

www.standbyme.daikin.eu

# Simulation software

The Daikin Altherma Simulation Software provides end users with the best heat pump, taking into account the type of building and specific climate data. An installer can provide the following data:

› House application: heat/cool load, water temperatures and power supply
› Climate conditions: location and design temperature
› Domestic hot water requirements: tank volume, material and solar connection
› Preferences: 'heating off' temperature and a night setback function

Based on the specific build and location details, the software programme provides a full projection and appropriate material selection.

The software also provides detailed information for the installer and the end user, on the expected outcomes of the specified Daikin Altherma unit under a certain application and climate, such as:

› Seasonal efficiency of the heat pump system
› Amount of backup for heater operation
› Energy consumption and energy cost per month
› Savings on running costs compared to traditional heating systems

This information is then summarised and compiled into a detailed report for installers and customers.

Check your local Daikin website for availability of this simulation software.

# Flue gas selection tool

Using our Flue Gas Selection tool, users can find the flue gas connections that suit your building. From homes to apartment buildings, this tool showcases a range of custom options built for your home.



# Online support

## Business portal

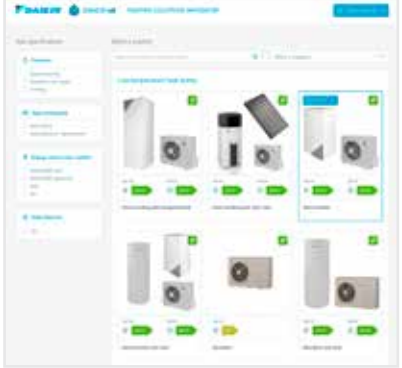
› Learn more about Daikin's units on our new extranet portal: **my.daikin.eu**
› Receive information in a matter of seconds using our powerful search tool
› Customise search options to only see information that is relevant for you
› Accessible via a mobile device or computer

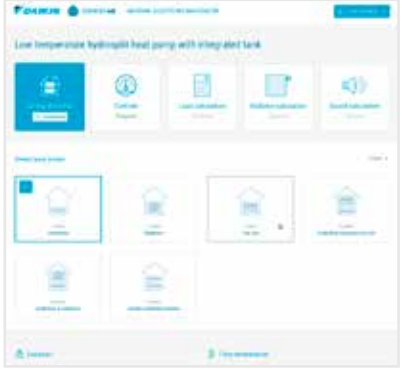
## my.daikin.eu


# Heating Solutions Navigator

This support tool is an interactive platform that allows users to search, customise and select the best Daikin heating solution based on their needs and expectations

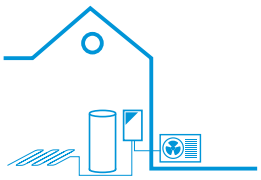
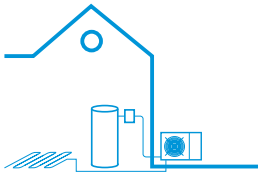
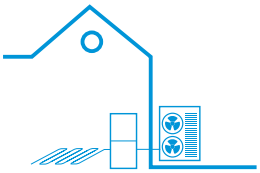
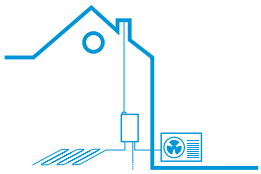
› User-friendly interface showcases the wide array of Daikin heating solutions available
› Customisable search allows the user to easily compare the unique features and adaptations of each unit
› Create realistic simulations to compare performance and energy efficiency levels

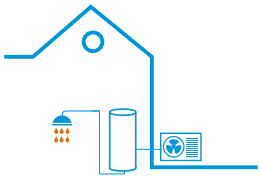




# Products overview

**Solutions for heating and domestic hot water**

| Solutions | Air-to-water technology | | | Hybrid technology |
|---|---|---|---|---|
| | Daikin Altherma low temperature split | Daikin Altherma low temperature monobloc | Daikin Altherma high temperature split | Daikin Altherma hybrid heat pump |
| Different technologies |   |   |   |   |
| Energy label | › heating: A++<br>› hot water: up to A+++ | | › heating: A+<br>› hot water: B | › heating: up to A++<br>› hot water: A |
| Applications | › Ideal for new houses, low energy houses or together with an existing boiler (bivalent) | | › Ideal for replacement of a traditional boiler | › Ideal for replacement of a gas boiler |
| Functionalities | › Space heating<br>› Domestic hot water<br>› Cooling<br>› Solar connection for hot water production with thermal store<br>› Solar connection for electricity production (photovoltaïc)<br>› Online controller*<br>* not available on E(D/B)(L/H)Q011-016BB6V3/W1 | | › Space heating<br>› Domestic hot water<br>› Solar connection for hot water production with thermal store | › Space heating<br>› Domestic hot water<br>› Cooling with air to air or air to water heat pump<br>› Solar connection for hot water production with thermal store<br>› Solar connection for electricity production (photovoltaïc)<br>› Online controller |
| Installation | › 1 indoor unit<br>› 1 outdoor unit | › 1 outdoor unit | › 1 indoor unit<br>› 1 outdoor unit | › 1 indoor unit + 1 gas condensing boiler<br>› 1 outdoor unit |
| Different emitters | › Under floor heating<br>› Low temperature radiators<br>› Fan coil units<br>› Heat pump convector | | › High temperature radiators | › Under floor heating<br>› Low and high temperature radiators |

| | Solution for domestic hot water only | Solution for heating and domestic hot water | |
|---|---|---|---|
| **Ground-to-water technology** | **Air-to-water technology** | | **Combustion** |
| **Daikin Altherma ground source heat pump** | **Domestic hot water heat pump** | **Daikin Altherma Flex Type** | **Gas condensing boiler** |
|   |   |   |     |
| › heating: A++<br>› hot water: A | › hot water: A | › heating: A+<br>› hot water: A | › heating: A<br>› hot water: A |
| › Suitable for new houses and for renovations | › Ideal for replacement of an electric domestic hot water tank | Ideal for large hot water and heating requirements in<br>› Apartments<br>› Collective housing<br>› Hotels<br>› Fitness<br>› Spa<br>› Schools<br>› Hospitals<br>› Libraries | › Ideal for replacement of an existing gas boiler |
| › Space heating<br>› Domestic hot water<br>› Solar connection for electricity production (photovoltaïc)  <br>› Online controller  | › Domestic hot water<br>› Solar connection for hot water production with thermal store | › Space heating<br>› Domestic hot water<br>› Cooling (Heat recovery)<br>› Solar connection for hot water production with thermal store | › Space heating<br>› Domestic hot water<br>› Solar connection for hot water production with thermal store<br>› Online controller  |
| › 1 indoor unit | › 1 indoor unit<br>› 1 outdoor unit | › Several indoor units<br>› 1 or more outdoor units | › 1 indoor unit |
| › Under floor heating<br>› Fan coil units<br>› Heat pump convector<br>› Low and high temperature radiators | › Tap water | › Under floor heating<br>› Low temperature radiators<br>› Fan coil units<br>› Heat pump convector | › Under floor heating<br>› Radiators |


DAIKIN

# Daikin Altherma heat pumps:
# at the heart of any heating solution

**With 50 years of experience in heat pump technology and 10 years of experience with air-to-water heat pumps, Daikin is your reliable service partner to deliver the best comfort energy efficiency and reliability to your customers.**

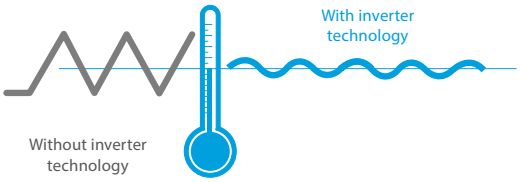
## Why choose a Daikin outdoor unit?

### Comfort

The Daikin Altherma outdoor unit is suitable for all climates, even withstanding severe winter conditions with an operating range down to -25°C.

### Energy efficiency

Inverter compressors continuously adjust compressor speed to meet actual demand. Fewer start and stop rotations results in up to 30% decreased energy consumption and more stable temperatures.



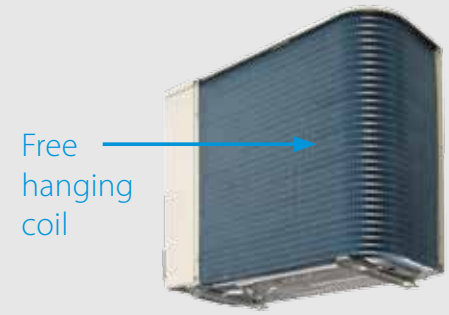

### Reliability

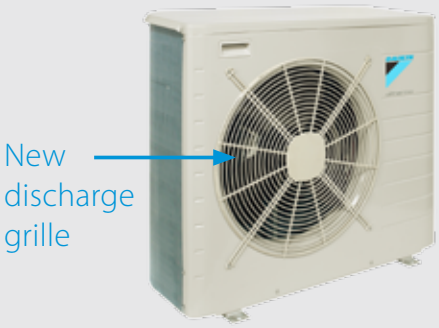
With advanced protection against frost and ice, the Daikin Altherma range can be adapted to meet the demands of various climates across Europe.

› Free hanging coil ensures no ice build up in the lower part of the outdoor unit.
› The round shape of the discharge grill prevents ice accumulation, as water is able to disperse more easily compared to a rectangular grill.

**Countermeasures to eliminate ice buildup**

Using advanced protection to avoid frost and ice means that the Daikin Altherma range can be adapted for various climate across Europe.



# Daikin Altherma low temperature

## Why choose a Daikin Altherma low temperature

**Energy efficient heating, cooling and hot water solution for new builds and low-energy houses**

### Comfort

#### Heating
Heat pumps extract existing heat from the air, which makes heating your home an energy efficient process

#### Cooling
Powered by renewable energy sources, heat pumps cool your home without consuming large amounts of energy

#### Hot water
With one heat pump system, Daikin Altherma low temperature uses renewable energy to supply enough hot water for six showers

### Reliability

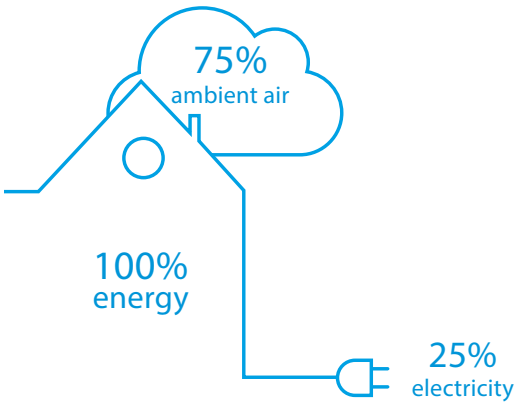
- Flexible solutions: split floor standing, split wall mounted and monobloc unit
- Uses the $ECH_20$ principle to provide superior water sanitation
- Incorporates advanced technologies and frost protection features to prevent ice buildup

### Energy efficiency

A++

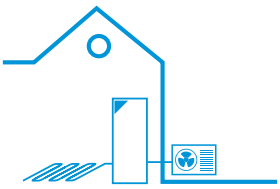
#### Powered by renewable energy
By extracting renewable energy from the air, our Daikin Altherma low temperature heats, cools and provides your customer with hot water in a sustainable way.

- Powered by **75%** renewable energy extracted from the air and **25%** electricity
- Achieves **A++** energy efficiency label for heating
- Optional solar support can produce up to **70%** of the energy that your heat pump and boiler needs



# Daikin Altherma low temperature offers a wide range to adapt to your customer's needs

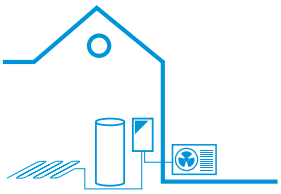
› **Best seasonal efficiencies providing the highest savings on running costs**
› **Perfect fit for new builds, as well as for low-energy houses**



Floor-standing unit with integrated domestic hot water tank

## Compact and yet 100% comfort guaranteed

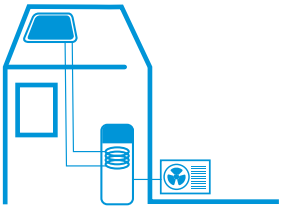
› All components and connections are factory mounted
› Very small installation footprint required
› Minimum electrical input with constantly available hot water
› Bi-zone option: two temperature zones automatically regulated by the same indoor unit



Wall mounted unit

## High flexibility for installation and domestic hot water connection

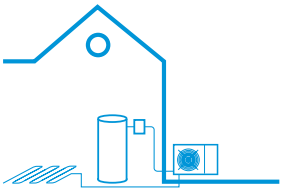
› Compact unit with small installation space (almost no side clearance is required)
› Can be combined with a separate domestic hot water tank of up to 500 litres, with or without solar support



Integrated $ECH_2O$

## Maximising renewable energy with top comfort for hot water preparation

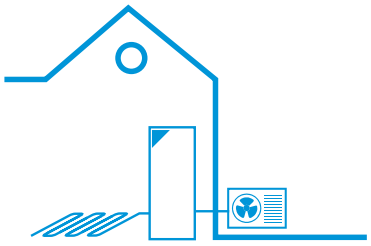
› Solar support for domestic hot water
› Lightweight plastic tank
› Bivalent option: can be combined with a secondary heat source
› App control available



Monobloc outdoor unit

## Ideal when indoor space is limited

› Compact monobloc for space heating and cooling with optional domestic hot water
› Fuss-free installation: only water and electricity connections are required
› Frost protection features ensure reliable operation down to - 25°C (outside temperatures)



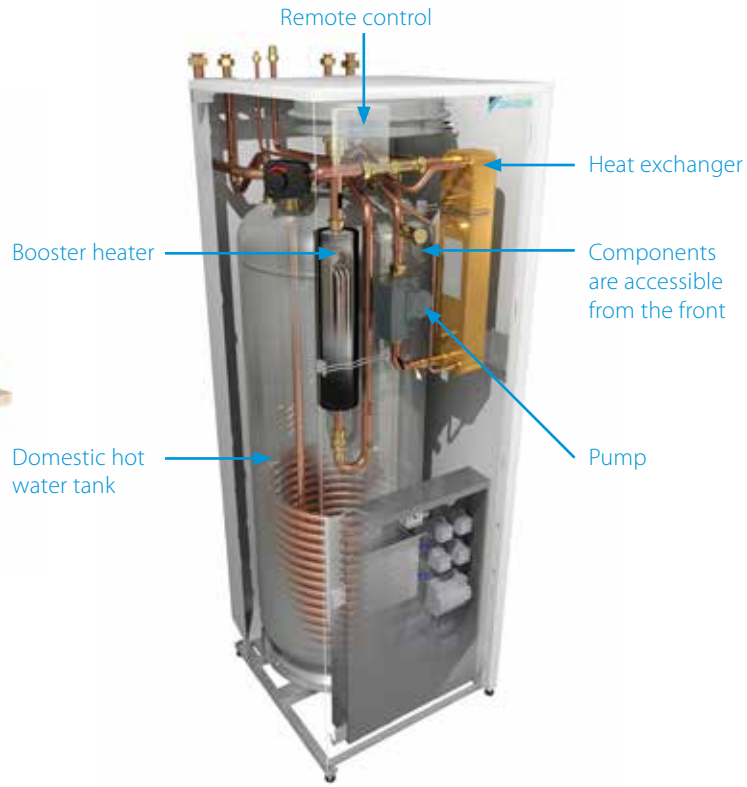
Daikin Altherma low temperature split

# floor standing unit with integrated domestic hot water tank

**The Daikin Altherma floor standing unit is the ideal system to deliver heating, domestic hot water and cooling for new builds and low-energy houses**

## All-in-one system to save installation space and time

- A combined stainless steel domestic hot water tank and heat pump ensures a faster installation compared to traditional systems
- Inclusion of all hydraulic components means no third-party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint with space reduced by more than 30%
- Integrated bi-zone kit allows temperature monitoring for two zones: connect underfloor heating to radiators to optimise efficiency.



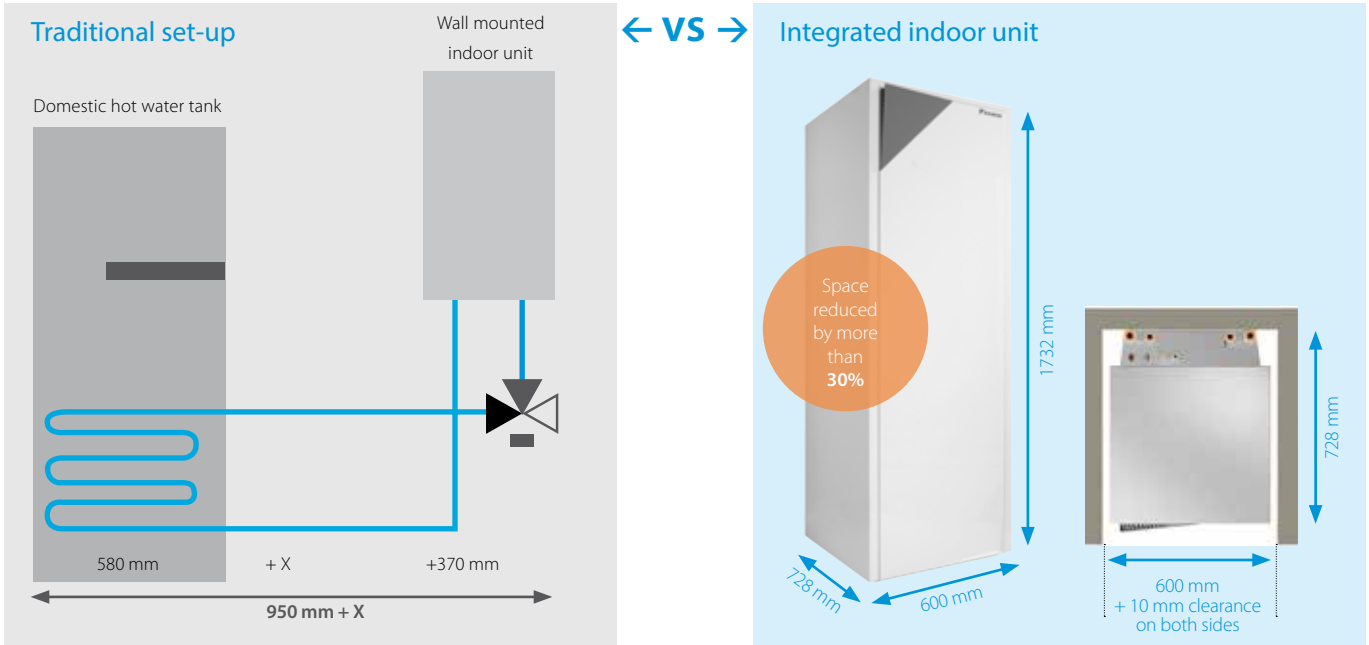
## All-in-one design reduces the installation footprint and height

Compared to the traditional split version for a wall mounted indoor unit and separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

Smaller footprint: with a width of only 600 mm and a depth of 728 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit. This results in an installation footprint of only 0.45 $m^2$.

Low installation height: both the 180l and 260l version come with a height of 173 cm. The required installation hight is less than 2 m.

The compactness of the integrated indoor unit is emphasised by its sleek design and modern look, easily blending in with other household appliances.



# Daikin Altherma low temperature split integrated floor standing unit


Floor standing air-to-water heat pump **for heating and hot water**, ideal for low-energy houses

› Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
› Energy efficient heating only system based on air-to-water heat pump technology
› Perfect fit for new builds and low-energy houses
› Best seasonal efficiencies provide the high savings on running costs
› Flexible configuration with respect to heat emitters
› Outdoor unit extracts heat from the outdoor air, even at -25°C
› Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of electricity produced

| Efficiency data | | | | EHVH + ERLQ | 04S18CB3V + 004CV3 | 08S18CB3V / 08S26CB9W + 006CV3 | 08S18CB3V / 08S26CB9W + 008CV3 | 11S18CB3V / 11S26CB9W + 011CV3 | 16S18CB3V / 16S26CB9W + 014CV3 | 16S18CB3V / 16S26CB9W + 016CV3 | 11S18CB3V / 11S26CB9W + 011CW1 | 16S18CB3V / 16S26CB9W + 014CW1 | 16S18CB3V / 16S26CB9W + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 3.42 (1) / 4.21 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL |
| | Average climate | ηwh (water heating efficiency) | | % | 95.0 | 86.4 | 90.0 | 86.4 | 90.0 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | | | | | | | |

| Indoor Unit | | | EHVH | 04S18CB3V | 08S18CB3V / 08S26CB9W | 08S18CB3V / 08S26CB9W | 11S18CB3V / 11S26CB9W | 16S18CB3V / 16S26CB9W | 16S18CB3V / 16S26CB9W | 11S18CB3V / 11S26CB9W | 16S18CB3V / 16S26CB9W | 16S18CB3V / 16S26CB9W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | White | | | | | | | | |
| | Material | | | Precoated sheet metal | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,732x600x728 | | | | | | | | |
| Weight | Unit | | kg | 116 | 117 | 127 | 117 | 127 | 117 | 126 | 118 | 128 | 118 | 128 | 117 | 126 | 118 | 128 | 118 | 128 |
| Tank | Water volume | | l | 180 | | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 |
| | Maximum water temperature | | °C | 65 | | | | | | | | | | | | | | | | |
| | Maximum water pressure | | bar | 10 | | | | | | | | | | | | | | | | |
| | Corrosion protection | | | Anode | | | | | | | | | | | | | | | | |
| Operation range | Heating | Water side Min.~Max. | °C | 15~55 | | | | | | | | | | | | | | | | |
| | Domestic hot water | Water side Min.~Max. | °C | 25~60 | | | 25~60 / 60 | | | | | | | | | | | | | |
| Sound power level | Nom. | | dBA | 42 | | | | 44 | | | 42 | | 44 | | | | | | | |
| Sound pressure level | Nom. | | dBA | 28 | | | | 30 | | | 28 | | 30 | | | | | | | |

| Outdoor Unit | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | 1 | | | | | | | | |
| | Type | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | R-410A | | | | | | | | |
| | GWP | | | 2,087.5 | | | | | | | | |
| | Charge | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit




| Efficiency data | | | | EHVH + ERHQ | 11S18CB3V / 11S26CB9W + 011BV3 | | 16S18CB3V / 16S26CB9W + 014BV3 | | 16S18CB3V / 16S26CB9W + 016BV3 | | 11S18CB3V / 11S26CB9W + 011BW1 | | 16S18CB3V / 16S26CB9W + 014BW1 | | 16S18CB3V / 16S26CB9W + 016BW1 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | | 14.0 (1) / 13.1 (2) | | 16.0 (1) / 15.2 (2) | | 11.3 (1) / 11.0 (2) | | 14.5 (1) / 13.6 (2) | | 16.1 (1) / 15.1 (2) | |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | | 3.26 (1) / 4.04 (2) | | 3.92 (1) / 4.75 (2) | | 2.63 (1) / 3.24 (2) | | 3.42 (1) / 4.21 (2) | | 3.82 (1) / 4.69 (2) | |
| COP | | | | | 4.39 (1) / 3.25 (2) | | 4.29 (1) / 3.24 (2) | | 4.08 (1) / 3.20 (2) | | 4.30 (1) / 3.39 (2) | | 4.24 (1) / 3.22 (2) | | 4.20 (1) / 3.22 (2) | |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | | 2.82 | | 2.92 | | 2.90 | | 2.80 | | 2.96 | |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | | 110 | | 114 | | 113 | | 109 | | 115 | |
| | | | Seasonal space heating eff. class | | A+ | | | | | | | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | | 3.23 | | 3.29 | | 3.08 | | 3.34 | | 3.33 | |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | | 126 | | 129 | | 120 | | 131 | | 130 | |
| | | | Seasonal space heating eff. class | | A | | A+ | | | | A | | A+ | | | |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL |
| | Average climate | ηwh (water heating efficiency) | | % | 90.5 | 95.3 | 90.5 | 95.3 | 90.5 | 95.3 | 84.3 | 87.3 | 84.3 | 87.3 | 84.3 | 87.3 |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | | |

| Indoor Unit | | | | EHVH | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | | | | | | | |
| Weight | Unit | | | kg | 117 | 126 | 118 | 128 | 118 | 128 | 117 | 126 | 118 | 128 | 118 | 128 |
| Tank | Water volume | | | l | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 |
| | Maximum water temperature | | | °C | 65 | | | | | | | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | | | | | | | |
| | Corrosion protection | | | | Anode | | | | | | | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~60 / 65 | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 42 | | 44 | | | | 42 | | 44 | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | 30 | | | | 28 | | 30 | | | |

| Outdoor Unit | | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | | 1 | | | | | |
| | Type | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit


Floor standing air-to-water heat pump for **heating, cooling and hot water**, ideal for low-energy houses

› Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
› Energy efficient heating and cooling system based on air-to-water heat pump technology
› Perfect fit for new builds and low-energy houses
› Best seasonal efficiencies provide the high savings on running costs
› Flexible configuration with respect to heat emitters
› Outdoor unit extracts heat from the outdoor air, even at -25°C
› Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of electricity produced

| Efficiency data | | | | EHVX + ERLQ | 04S18 CB3V + 004 CV3 | 08S18CB3V / 08S26CB9W + 006CV3 | 08S18CB3V / 08S26CB9W + 008CV3 | 11S18CB3V / 11S26CB9W + 011CV3 | 16S18CB3V / 16S26CB9W + 014CV3 | 16S18CB3V / 16S26CB9W + 016CV3 | 11S18CB3V / 11S26CB9W + 011CW1 | 16S18CB3V / 16S26CB9W + 014CW1 | 16S18CB3V / 16S26CB9W + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Cooling capacity | Nom. | | | kW | 4.08 (1) / 4.17 (2) | 5.88 (1) / 4.84 (2) | 6.20 (1) / 5.36 (2) | 12.1 (1) / 11.7 (2) | 12.7 (1) / 12.6 (2) | 13.8 (1) / 13.1 (2) | 12.1 (1) / 11.7 (2) | 12.7 (1) / 12.6 (2) | 13.8 (1) / 13.1 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| | Cooling | Nom. | | kW | 0.900 (1) / 1.80 (2) | 1.51 (1) / 2.07 (2) | 1.64 (1) / 2.34 (2) | 3.05 (1) / 4.31 (2) | 3.21 (1) / 5.08 (2) | 3.74 (1) / 5.73 (2) | 3.05 (1) / 4.31 (2) | 3.21 (1) / 5.08 (2) | 3.74 (1) / 5.73 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| EER | | | | | 4.55 (1) / 2.32 (2) | 3.89 (1) / 2.34 (2) | 3.79 (1) / 2.29 (2) | 3.98 (1) / 2.72 (2) | 3.96 (1) / 2.47 (2) | 3.69 (1) / 2.29 (2) | 3.98 (1) / 2.72 (2) | 3.96 (1) / 2.47 (2) | 3.69 (1) / 2.29 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL |
| | Average climate | ηwh (water heating efficiency) | | % | 95.0 | 86.4 | 90.0 | 86.4 | 90.0 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 | 87.4 | 97.7 |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | | | | | | | |

| Indoor Unit | | | | EHVX | 04S18 CB3V | 08S18CB3V / 08S26CB9W | | 08S18CB3V / 08S26CB9W | | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | | | | | | | | | | | | |
| Weight | Unit | | | kg | 117 | 119 | 129 | 119 | 129 | 119 | 128 | 120 | 130 | 120 | 130 | 119 | 128 | 120 | 130 | 120 | 130 |
| Tank | Water volume | | | l | 180 | | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 |
| | Maximum water temperature | | | °C | 65 | | | | | | | | | | | | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | | | | | | | | | | | | |
| | Corrosion protection | | | | Anode | | | | | | | | | | | | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | 15~55 | | | | | | | | | | | | | |
| | Cooling | Water side | Min.~Max. | °C | 5~22 | | | | | | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~60 | | | 25~60 / 60 | | | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 42 | | | | | 44 | | | | 42 | | 44 | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | 30 | | | | 28 | | 30 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit


EHVX-CB

ERLQ004-008CV3

ERHQ011-016BW1



| Efficiency data | | | | EHVX + ERHQ | 11S18CB3V / 11S26CB9W + 011BV3 | | 16S18CB3V / 16S26CB9W + 014BV3 | | 16S18CB3V / 16S26CB9W + 016BV3 | | 11S18CB3V / 11S26CB9W + 011BW1 | | 16S18CB3V / 16S26CB9W + 014BW1 | | 16S18CB3V / 16S26CB9W + 016BW1 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | | 14.0 (1) / 13.1 (2) | | 16.0 (1) / 15.2 (2) | | 11.3 (1) / 11.0 (2) | | 14.5 (1) / 13.6 (2) | | 16.1 (1) / 15.1 (2) | |
| Cooling capacity | Nom. | | | kW | 13.9 (1) / 10.0 (2) | | 17.3 (1) / 12.5 (2) | | 17.8 (1) / 13.1 (2) | | 15.1 (1) / 11.7 (2) | | 16.1 (1) / 12.6 (2) | | 16.8 (1) / 13.1 (2) | |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | | 3.26 (1) / 4.04 (2) | | 3.92 (1) / 4.75 (2) | | 2.63 (1) / 3.24 (2) | | 3.42 (1) / 4.21 (2) | | 3.82 (1) / 4.69 (2) | |
| | Cooling | Nom. | | kW | 3.86 (1) / 3.69 (2) | | 5.86 (1) / 5.69 (2) | | 6.87 (1) / 5.95 (2) | | 4.53 (1) / 4.31 (2) | | 5.43 (1) / 5.08 (2) | | 6.16 (1) / 5.73 (2) | |
| COP | | | | | 4.39 (1) / 3.25 (2) | | 4.29 (1) / 3.24 (2) | | 4.08 (1) / 3.20 (2) | | 4.30 (1) / 3.39 (2) | | 4.24 (1) / 3.22 (2) | | 4.20 (1) / 3.22 (2) | |
| EER | | | | | 3.60 (1) / 2.71 (2) | | 2.95 (1) / 2.32 (2) | | 2.59 (1) / 2.20 (2) | | 3.32 (1) / 2.72 (2) | | 2.96 (1) / 2.47 (2) | | 2.72 (1) / 2.29 (2) | |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | | 2.82 | | 2.92 | | 2.90 | | 2.80 | | 2.96 | |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | | 110 | | 114 | | 113 | | 109 | | 115 | |
| | | | Seasonal space heating eff. class | | A+ | | | | | | | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | | 3.23 | | 3.29 | | 3.08 | | 3.34 | | 3.33 | |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | | 126 | | 129 | | 120 | | 131 | | 130 | |
| | | | Seasonal space heating eff. class | | A | | A+ | | | | A | | A+ | | | |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | L | XL | L | XL | L | XL | L | XL |
| | Average climate | ηwh (water heating efficiency) | | % | 90.5 | 95.3 | 90.5 | 95.3 | 90.5 | 95.3 | 84.3 | 87.3 | 84.3 | 87.3 | 84.3 | 87.3 |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | | |

| Indoor Unit | | | | EHVX | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | | 11S18CB3V / 11S26CB9W | | 16S18CB3V / 16S26CB9W | | 16S18CB3V / 16S26CB9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | | | | | | | |
| Weight | Unit | | | kg | 119 | 128 | 120 | 130 | 120 | 130 | 119 | 128 | 120 | 130 | 120 | 130 |
| Tank | Water volume | | | l | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 |
| | Maximum water temperature | | | °C | 65 | | | | | | | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | | | | | | | |
| | Corrosion protection | | | | Anode | | | | | | | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | | | | | | | |
| | Cooling | Water side | Min.~Max. | °C | 5~22 | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~60 / 60 | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 42 | | 44 | | | | 42 | | 44 | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | 30 | | | | 28 | | 30 | | | |

| Outdoor Unit | | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | | 1 | | | | | |
| | Type | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated bi-zone

## Optimum efficiency offering full flexibility in heat emitters

› Two different temperature zones can be automatically regulated by the same indoor unit
› Offers flexibility to the end user to combine different heat emitters, e.g. underfloor heating and radiators while optimising the efficiency
› Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
› Energy efficient heating only system based on air-to-water heat pump technology
› Outdoor unit extracts heat from the outdoor air, even at -25°C
› Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of electricity produced

| **Efficiency data** | | | | **EHVZ + ERLQ** | **04S18CB3V + 004CV3** | **08S18CB3V + 006CV3** | **08S18CB3V + 008CV3** | **16S18CB3V + 011CV3** | **16S18CB3V + 014CV3** | **16S18CB3V + 016CV3** | **16S18CB3V + 011CW1** | **16S18CB3V + 014CW1** | **16S18CB3V + 016CW1** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.4 (1) / 13.5 (2) | 15.9 (1) / 15.1 (2) | 11.2 (1) / 11.0 (2) | 14.4 (1) / 13.5 (2) | 15.9 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.39 (1) / 4.12 (2) | 3.77 (1) / 4.67 (2) | 2.43 (1) / 3.10 (2) | 3.39 (1) / 4.12 (2) | 3.77 (1) / 4.67 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.24 (1) / 2.61 (2) / 3.28 (3) / 2.05 (4) | 4.22 (1) / 2.61 (2) / 3.23 (3) / 2.07 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.24 (1) / 2.61 (2) / 3.28 (3) / 2.05 (4) | 4.22 (1) / 2.61 (2) / 3.23 (3) / 2.07 (4) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | - | | | | | |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | - | | | | | |
| | | | Seasonal space heating eff. class | | A++ | | | - | | | | | |
| Pump Additional Zone | Nominal ESP unit (*RLQ*C*) | Heating | | kPa | 52.3 / 55.4 | 40.6 / 43.3 | 28.3 / 32.7 | 26.2 (1) / 28.3 (2) | 25.0 | | 26.2 (1) / 28.3 (2) | 25.0 | |
| Pump Main Zone | Nominal ESP unit (*RLQ*C*) | Heating | | kPa | 48.6 / 51.9 | 39.5 / 42.3 | 26.4 / 31.2 | 18.2 (1) / 20.7 (2) | 25.0 | | 18.2 (1) / 20.7 (2) | 25.0 | |
| Domestic hot water heating | General | Declared load profile | | | L | | | | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 95.0 | 86.4 | | 87.4 | | | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | |

| **Indoor Unit** | | | **EHVZ** | **04S18CB3V** | **08S18CB3V** | **16S18CB3V** |
|---|---|---|---|---|---|---|
| Casing | Colour | | | White | | |
| | Material | | | Precoated sheet metal | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,732x600x728 | | |
| Weight | Unit | | kg | 121 | 122 | 121 |
| Tank | Water volume | | l | 180 | | |
| | Maximum water temperature | | °C | 65 | | |
| | Maximum water pressure | | bar | 10 | | |
| | Corrosion protection | | | Anode | | |
| Operation range | Heating | Water side Min.~Max. | °C | 15~55 | | 15~55 |
| | Domestic hot water | Water side Min.~Max. | °C | 25~60 | | 25~60 / 60 |
| Sound power level | Nom. | | dBA | 42 | | 44 |
| Sound pressure level | Nom. | | dBA | 28 | | 30 |

| **Outdoor Unit** | | | **ERLQ** | **004CV3** | **006CV3** | **008CV3** | **011CV3** | **014CV3** | **016CV3** | **011CW1** | **014CW1** | **016CW1** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | 1 | | | | | | | | |
| | Type | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | R-410A | | | | | | | | |
| | GWP | | | 2,087.5 | | | | | | | | |
| | Charge | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated bi-zone




| Efficiency data | | | | EHVZ + ERHQ | 16S18CB3V + 011BV3 | 16S18CB3V + 014BV3 | 16S18CB3V + 016BV3 | 16S18CB3V + 011BW1 | 16S18CB3V + 014BW1 | 16S18CB3V + 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.2 (2) | 11.3 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.1 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | 3.26 (1) / 4.04 (2) | 3.92 (1) / 4.75 (2) | 2.63 (1) / 3.24 (2) | 3.42 (1) / 4.21 (2) | 3.82 (1) / 4.69 (2) |
| COP | | | | | 4.39 (1) / 3.25 (2) | 4.29 (1) / 3.24 (2) | 4.08 (1) / 3.20 (2) | 4.30 (1) / 3.39 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.22 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | 2.82 | 2.92 | 2.90 | 2.80 | 2.96 |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | 110 | 114 | 113 | 109 | 115 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | - | | | | | |
| | | | Seasonal space heating eff. class | | - | | | | | |
| Pump Additional Zone | Nominal ESP unit (*RHQ*B*) | Heating | | kPa | 26.2 (1) / 35.0 (2) | 25.0 | | 24.8 (1) / 28.3 (2) | 25.0 | |
| Pump Main Zone | Nominal ESP unit (*RHQ*B*) | Heating | | kPa | 18.2 (1) / 28.8 (2) | 25.0 | | 16.4 (1) / 20.7 (2) | 25.0 | |
| Domestic hot water heating | General | Declared load profile | | | L | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 90.5 | | | 84.3 | | |
| | | Water heating energy efficiency class | | | A | | | | | |

| Indoor Unit | | | EHVZ | 16S18CB3V |
|---|---|---|---|---|
| Casing | Colour | | | White |
| | Material | | | Precoated sheet metal |
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,732x600x728 |
| Weight | Unit | | kg | 121 |
| Tank | Water volume | | l | 180 |
| | Maximum water temperature | | °C | 65 |
| | Maximum water pressure | | bar | 10 |
| | Corrosion protection | | | Anode |
| Operation range | Heating | Water side Min.~Max. | °C | 15~55 |
| | Domestic hot water | Water side Min.~Max. | °C | 25~60 / 60 |
| Sound power level | Nom. | | dBA | 44 |
| Sound pressure level | Nom. | | dBA | 30 |

| Outdoor Unit | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | 1 | | | | | |
| | Type | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | R-410A | | | | | |
| | GWP | | | 2,087.5 | | | | | |
| | Charge | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit without backup heater


Floor standing air-to-water heat pump **for heating and hot water**, ideal for low-energy houses

› Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
› Energy efficient heating only system based on air-to-water heat pump technology
› Perfect fit for new builds and low-energy houses
› Best seasonal efficiencies provide the high savings on running costs
› Flexible configuration with respect to heat emitters
› Outdoor unit extracts heat from the outdoor air, even at -25°C
› Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of electricity produced

| Efficiency data | | | | EHVH + ERLQ | 04S18CBV + 004CV3 | 08S18CBV / 08S26CBV + 006CV3 | 08S18CBV / 08S26CBV + 008CV3 | 11S26CBV + 011CV3 | 16S26CBV + 014CV3 | 16S26CBV + 016CV3 | 11S26CBV + 011CW1 | 16S26CBV + 014CW1 | 16S26CBV + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 3.42 (1) / 4.21 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 95.0 | 86.4 | 90.0 | 86.4 | 90.0 | 97.7 | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | |

| Indoor Unit | | | | EHVH | 04S18CB3V | 08S18CB3V / 08S26CB9W | | 08S18CB3V / 08S26CB9W | | 11S26CBV | | 16S26CBV | | 16S26CBV | | 11S26CBV | | 16S26CBV | | 16S26CBV | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | | | | | | | | | | | | |
| Weight | Unit | | | kg | 116 | 117 | 127 | 117 | 127 | 117 | 126 | 118 | 128 | 118 | 128 | 117 | 126 | 118 | 128 | 118 | 128 |
| Tank | Water volume | | | l | 180 | | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 | 180 | 260 |
| | Maximum water temperature | | | °C | 65 | | | | | | | | | | | | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | | | | | | | | | | | | |
| | Corrosion protection | | | | Anode | | | | | | | | | | | | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 10~55 | | | | | | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~70 | | | | | 25~70 | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 42 | | | | | 44 | | | | 42 | | 44 | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | 30 | | | | 28 | | 30 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | kg | | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | $TCO_2eq$ | | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | kg | | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | dBA | | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | dBA | | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit without back-up heater




| Efficiency data | | | | EHVH + ERHQ | 11S26CBV + 011BV3 | 16S26CBV + 014BV3 | 16S26CBV + 016BV3 | 11S26CBV + 011BW1 | 16S26CBV + 014BW1 | 16S26CBV + 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.2 (2) | 11.3 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.1 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | 3.26 (1) / 4.04 (2) | 3.92 (1) / 4.75 (2) | 2.63 (1) / 3.24 (2) | 3.42 (1) / 4.21 (2) | 3.82 (1) / 4.69 (2) |
| COP | | | | | 4.39 (1) / 3.25 (2) | 4.29 (1) / 3.24 (2) | 4.08 (1) / 3.20 (2) | 4.30 (1) / 3.39 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.22 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | 2.82 | 2.92 | 2.90 | 2.80 | 2.96 |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | 110 | 114 | 113 | 109 | 115 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | 3.23 | 3.29 | 3.08 | 3.34 | 3.33 |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | 126 | 129 | 120 | 131 | 130 |
| | | | Seasonal space heating eff. class | | A | A+ | | A | A+ | |
| Domestic hot water heating | General | Declared load profile | | | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 95.3 | | | 87.3 | | |
| | | Water heating energy efficiency class | | | A | | | | | |

| Indoor Unit | | | | EHVH | 11S26CBV | 16S26CBV | 16S26CBV | 11S26CBV | 16S26CBW | 16S26CBW |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | |
| | Material | | | | Precoated sheet metal | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | |
| Weight | Unit | | | kg | 126 | 128 | | 126 | 128 | |
| Tank | Water volume | | | l | 260 | | | | | |
| | Maximum water temperature | | | °C | 65 | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | |
| | Corrosion protection | | | | Anode | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 10~55 | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~70 | | | | | |
| Sound power level | Nom. | | | dBA | 42 | 44 | | 42 | 44 | |
| Sound pressure level | Nom. | | | dBA | 28 | 30 | | 28 | 30 | |

| Outdoor Unit | | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | | 1 | | | | | |
| | Type | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit for UK


Floor standing air-to-water heat pump **for heating and hot water**, ideal for low-energy houses

› Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
› Energy efficient heating only system based on air-to-water heat pump technology
› Perfect fit for new builds and low-energy houses
› Best seasonal efficiencies provide the high savings on running costs
› Flexible configuration with respect to heat emitters
› Outdoor unit extracts heat from the outdoor air, even at -25°C
› Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of electricity produced.

| Efficiency data | | | | EHVH + ERLQ | 04SU18CB6W + 004CV3 | 08SU18CB6W / 08SU26CB6W + 006CV3 | 08SU18CB6W / 08SU26CB6W + 008CV3 | 11SU26CB6W + 011CV3 | 16SU26CB6W + 014CV3 | 16SU26CB6W + 016CV3 | 11SU26CB6W + 011CW1 | 16SU26CB6W + 014CW1 | 16SU26CB6W + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 3.42 (1) / 4.21 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |
| Domestic hot water heating | General | Declared load profile | | | L | XL | L | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 95.0 | 86.4 | 90.0 | 86.4 | 90.0 | 97.7 | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | |

| Indoor Unit | | | | EHVH | 04SU18CB6W | 08SU18CB6W / 08SU26CB6W | | 08SU18CB6W / 08SU26CB6W | | 11SU26CB6W | 6SU26CB6W | 16SU26CB6W | 11SU26CB6W | 16SU26CB6W | 16SU26CB6W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,732x600x728 | | | | | | | | | | |
| Weight | Unit | | | kg | 118 | 121 | 127 | 127 | 127 | 128 | 130 | | 128 | 130 | |
| Tank | Water volume | | | l | 180 | | 260 | 180 | 260 | | | | | | |
| | Maximum water temperature | | | °C | 65 | | | | | | | | | | |
| | Maximum water pressure | | | bar | 10 | | | | | | | | | | |
| | Corrosion protection | | | | Anode | | | | | | | | | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~65 | | | | | 25~65 | | | | | |
| Sound power level | Nom. | | | dBA | 42 | | | | | 44 | | 42 | 44 | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | 30 | | 28 | 30 | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | kg | | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | $TCO_2eq$ | | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | kg | | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | dBA | | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | dBA | | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated floor standing unit for UK




| Efficiency data | | | | EHVH + ERHQ | 11SU26CB6W + 011BV3 | 16SU26CB6W + 014BV3 | 16SU26CB6W + 016BV3 | 11SU26CB6W + 011BW1 | 16SU26CB6W + 014BW1 | 16SU26CB6W + 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.2 (2) | 11.3 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.1 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | 3.26 (1) / 4.04 (2) | 3.92 (1) / 4.75 (2) | 2.63 (1) / 3.24 (2) | 3.42 (1) / 4.21 (2) | 3.82 (1) / 4.69 (2) |
| COP | | | | | 4.39 (1) / 3.25 (2) | 4.29 (1) / 3.24 (2) | 4.08 (1) / 3.20 (2) | 4.30 (1) / 3.39 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.22 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | 2.82 | 2.92 | 2.90 | 2.80 | 2.96 |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | 110 | 114 | 113 | 109 | 115 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | 3.23 | 3.29 | 3.08 | 3.34 | 3.33 |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | 126 | 129 | 120 | 131 | 130 |
| | | | Seasonal space heating eff. class | | A | A+ | | A | A+ | |
| Domestic hot water heating | General | Declared load profile | | | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 95.3 | | | 87.3 | | |
| | | Water heating energy efficiency class | | | A | | | | | |

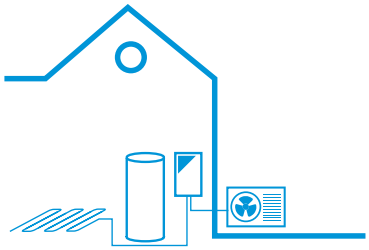
| Indoor Unit | | | EHVH | 11SU26CB6W | 16SU26CB6W | 16SU26CB6W | 11SU26CB6W | 16SU26CB6W | 16SU26CB6W |
|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | White | | | | | |
| | Material | | | Precoated sheet metal | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,732x600x728 | | | | | |
| Weight | Unit | | kg | 128 | 130 | | 128 | 130 | |
| Tank | Water volume | | l | 260 | | | | | |
| | Maximum water temperature | | °C | 65 | | | | | |
| | Maximum water pressure | | bar | 10 | | | | | |
| | Corrosion protection | | | Anode | | | | | |
| Operation range | Heating | Water side Min.~Max. | °C | 15~55 | | | | | |
| | Domestic hot water | Water side Min.~Max. | °C | 25~65 | | | | | |
| Sound power level | Nom. | | dBA | 42 | 44 | | 42 | 44 | |
| Sound pressure level | Nom. | | dBA | 28 | 30 | | 28 | 30 | |

| Outdoor Unit | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | 1 | | | | | |
| | Type | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | R-410A | | | | | |
| | GWP | | | 2,087.5 | | | | | |
| | Charge | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

# Options

| Type | | Material name | Daikin Altherma LT split wall mounted / floor standing | |
|---|---|---|---|---|
| | | | 4-8kW | 11-16kW |
| Controls | LAN adapter | BRP069A62 | • | • |
| | LAN adapter + PV solar connection | BRP069A61 | • | • |
| | Remote user interface (DE, FR, NL, IT) | EKRUCBL1 | • | • |
| | Remote user interface (EN, ES, EL, PT) | EKRUCBL3 | • | • |
| | Remote user interface (EN, SV, NO, FI) | EKRUCBL2 | • | • |
| | Remote user interface (EN, TR, PL, RO) | EKRUCBL4 | • | • |
| | Remote user interface (DE, CS, SL, SK) | EKRUCBL5 | • | • |
| | Remote user interface (EN, HR, HU, BG) | EKRUCBL6 | • | • |
| | Remote user interface (EN, DE, RU, DA) | EKRUCBL7 | • | • |
| | Simplified user interface | EKRUCBSB | • | • |
| | Room thermostat (wired) | EKRTWA | • | • |
| | Room thermostat (wireless) | EKRTR1 | • | • |
| | Centralised controller kit | EKCC-W | • | • |
| Adapter | Demand PCB | EKRP1AHTA | • | • |
| | Digital I/O PCB | EKRP1HBAA | • | • |
| Back-up heater | Back-up heater kit | EKLBUHCB6W1 | | • |
| | Booster heater for tank integrated design | EKBSHCA3V3 | | • |
| | Bottom plate heater | EKBPHTH16A | | • |
| Drain | Drain kit | EKDK04 | • | • |
| | Drain pan for indoor wall munted | EKHBDPCA2 | • | • |
| | Drain pan for outdoor (excl heater) | EKDP008CA | • | |
| | Drain pan heater | EKDPH008CA | • | |
| Filter | Magnetic filter without additives | K.FERNOXTF1 | • | • |
| | Magnetic filter with additive (500ml inhibitor fluid F1) | K.FERNOXTF1FL | • | • |
| Installation | Bi-zone kit | BZKA7V3 | • | • |
| | Snowcover | EK016SNCA | | • |
| | U-beams for outdoor | EKFT008CA | • | |
| | UK tank kit | EKVSU260A | | • |
| Sensor | Remote indoor sensor | KRCS01-1B | • | • |
| | Remote sensor for outdoor | EKRSCA1 | • | |
| | External sensor | EKRTETS | • | • |
| Others | PC cable | EKPCCAB1 | • | • |

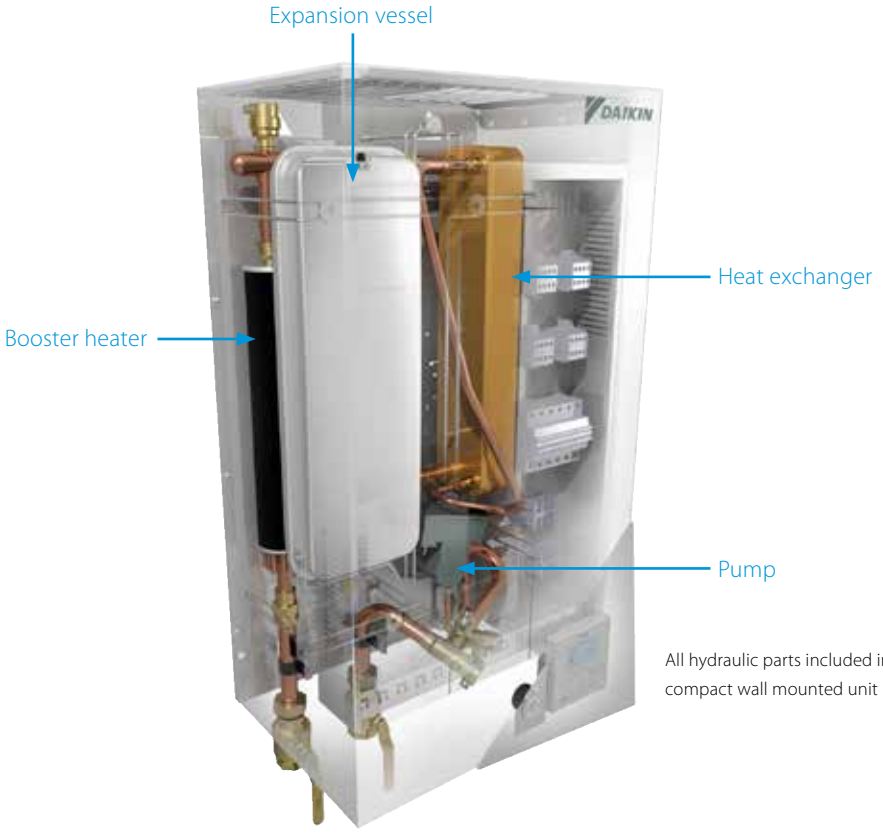


# Daikin Altherma low temperature split wall mounted unit

**The Daikin Altherma low temperature split wall mounted unit offers heating and cooling with high flexibility for a quick and easy installation, with an optional connection to deliver domestic hot water**

## High flexibility for installation and domestic hot water connection

- Inclusion of all hydraulic components means no third-party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel, enameled or **ECH$_2$O** thermal store




All hydraulic parts included in the compact wall mounted unit

## Stainless steel and enameled tanks

If the end user only requires hot water and installation height is limited, a separate tank can be connected (either stainless steel or enameled).

## $ECH_20$ thermal store range: additional hot water comfort

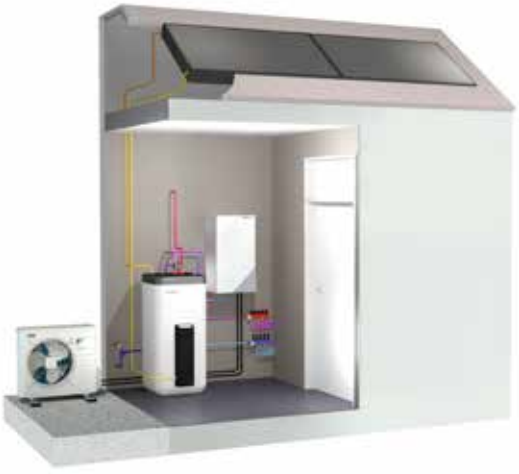
Combine your wall mounted unit with a thermal store for additional hot water comfort.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressureless and pressurised hot water system.

**Fore more info, see p. 90**

Stainless steel tank



Wall mounted unit combined with $ECH_2O$ thermal store

# Daikin Altherma
# low temperature split

EHBH-CB

ERLQ004CV3

## EHBH-CB + ERLQ-CV3/CW1

| Efficiency data | | | | EHBH + ERLQ | 04CB3V + 004CV3 | 08CB3V/9W + 006CV3 | 08CB3V/9W + 008CV3 | 11CB3V/9W + 011CV3 | 16CB3V/9W + 014CV3 | 16CB3V/9W + 016CV3 | 11CB3V/9W + 011CW1 | 16CB3V/9W + 014CW1 | 16CB3V/9W + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 3.42 (1) / 4.21 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |

| Indoor Unit | | | | EHBH | 04CB3V | 08CB3V/9W | | 08CB3V/9W | | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 890x480x344 | | | | | | | | | | | | | | | | |
| Weight | Unit | | | kg | 41 | 43 | 45 | 43 | 45 | 43 | 44 | 45 | 44 | 45 | 43 | 44 | 45 | 44 | 45 | | |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~80 | | | | | | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | 41 | | 44 | | | | 41 | | 44 | | | | | |
| Sound pressure level | Nom. | | | dBA | 26 | | | 27 | | 30 | | | | 27 | | 30 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split

EHBH-CB

ERHQ-BV3

## EHBH-CB + ERHQ-BV3/BW1

| Efficiency data | | | | EHBH + ERHQ | 11CB3V/9W + 011BV3 | 16CB3V/9W + 014BV3 | 16CB3V/9W + 016BV3 | 11CB3V/9W + 011BW1 | 16CB3V/9W + 014BW1 | 16CB3V/9W + 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.2 (2) | 11.3 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.1 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | 3.26 (1) / 4.04 (2) | 3.92 (1) / 4.75 (2) | 2.63 (1) / 3.24 (2) | 3.42 (1) / 4.21 (2) | 3.82 (1) / 4.69 (2) |
| COP | | | | | 4.39 (1) / 3.25 (2) | 4.29 (1) / 3.24 (2) | 4.08 (1) / 3.20 (2) | 4.30 (1) / 3.39 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.22 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | 2.82 | 2.92 | 2.90 | 2.80 | 2.96 |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | 110 | 114 | 113 | 109 | 115 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | 3.23 | 3.29 | 3.08 | 3.34 | 3.33 |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | 126 | 129 | 120 | 131 | 130 |
| | | | Seasonal space heating eff. class | | A | A+ | | A | A+ | |

| Indoor Unit | | | | EHBH | 11CB3V/9W | 16CB3V/9W | 16CB3V/9W | 11CB3V/9W | 16CB3V/9W | 16CB3V/9W |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | |
| | Material | | | | Precoated sheet metal | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 890x480x344 | | | | | |
| Weight | Unit | | | kg | 43 | 44 | 45 | 44 | 45 | 43 | 44 | 45 | 44 | 45 |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~80 | | | | | |
| Sound power level | Nom. | | | dBA | 41 | 44 | | 41 | 44 | |
| Sound pressure level | Nom. | | | dBA | 27 | 30 | | 27 | 30 | |

| Outdoor Unit | | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | | 1 | | | | | |
| | Type | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

# Daikin Altherma
# low temperature split

EHBX-CB

ERLQ004-008CV3

## EHBX-CB + ERLQ-CV3/CW1

| Efficiency data | | | | EHBX + ERLQ | 04CB3V + 004CV3 | 08CB3V/9W + 006CV3 | 08CB3V/9W + 008CV3 | 11CB3V/9W + 011CV3 | 16CB3V/9W + 014CV3 | 16CB3V/9W + 016CV3 | 11CB3V/9W + 011CW1 | 16CB3V/9W + 014CW1 | 16CB3V/9W + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.40 (1) / 4.03 (2) | 6.00 (1) / 5.67 (2) | 7.40 (1) / 6.89 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) | 11.2 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.0 (1) / 15.2 (2) |
| Cooling capacity | Nom. | | | kW | 4.08 (1) / 4.17 (2) | 5.88 (1) / 4.84 (2) | 6.20 (1) / 5.36 (2) | 12.1 (1) / 11.7 (2) | 12.7 (1) / 12.6 (2) | 13.8 (1) / 13.1 (2) | 12.1 (1) / 11.7 (2) | 12.7 (1) / 12.6 (2) | 13.8 (1) / 13.1 (2) |
| Power input | Heating | Nom. | | kW | 0.870 (1) / 1.13 (2) | 1.27 (1) / 1.59 (2) | 1.66 (1) / 2.01 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) | 2.43 (1) / 3.10 (2) | 3.37 (1) / 4.10 (2) | 3.76 (1) / 4.66 (2) |
| | Cooling | Nom. | | kW | 0.900 (1) / 1.80 (2) | 1.51 (1) / 2.07 (2) | 1.64 (1) / 2.34 (2) | 3.05 (1) / 4.31 (2) | 3.21 (1) / 5.08 (2) | 3.74 (1) / 5.73 (2) | 3.05 (1) / 4.31 (2) | 3.21 (1) / 5.08 (2) | 3.74 (1) / 5.73 (2) |
| COP | | | | | 5.04 (1) / 3.58 (2) | 4.74 (1) / 3.56 (2) | 4.45 (1) / 3.42 (2) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) | 4.60 (1) / 2.75 (2) / 3.55 (3) / 2.10 (4) | 4.30 (1) / 2.65 (2) / 3.32 (3) / 2.08 (4) | 4.25 (1) / 2.64 (2) / 3.26 (3) / 2.09 (4) |
| EER | | | | | 4.55 (1) / 2.32 (2) | 3.89 (1) / 2.34 (2) | 3.79 (1) / 2.29 (2) | 3.98 (1) / 2.72 (2) | 3.96 (1) / 2.47 (2) | 3.69 (1) / 2.29 (2) | 3.98 (1) / 2.72 (2) | 3.96 (1) / 2.47 (2) | 3.69 (1) / 2.29 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 3.20 | 3.22 | 3.23 | 3.09 | 3.16 | 3.06 | 3.09 | 3.16 | 3.06 |
| | | | ηs (Seasonal space heating efficiency) | % | 125 | 126 | | 120 | 123 | 119 | 120 | 123 | 119 |
| | | | Seasonal space heating eff. class | | A++ | | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 4.52 | 4.29 | 4.34 | 3.98 | 3.90 | 3.80 | 3.98 | 3.90 | 3.80 |
| | | | ηs (Seasonal space heating efficiency) | % | 178 | 169 | 171 | 156 | 153 | 149 | 156 | 153 | 149 |
| | | | Seasonal space heating eff. class | | A++ | | | | | A+ | A++ | | A+ |

| Indoor Unit | | | | EHBX | 04CB3V | 08CB3V/9W | | 08CB3V/9W | | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | White | | | | | | | | | | | | | | | | |
| | Material | | | | Precoated sheet metal | | | | | | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 890x480x344 | | | | | | | | | | | | | | | | |
| Weight | Unit | | | kg | 42 | 44 | 45 | 44 | 45 | 43 | 45 | 44 | 46 | 44 | 46 | 43 | 45 | 44 | 46 | 44 | 46 |
| Operation range | Heating | Water side | Min.~Max. | °C | 15~55 | | | | | 15~55 | | | | | | | | | | | |
| | Cooling | Water side | Min.~Max. | °C | 5~22 | | | | | 5~22 | | | | | | | | | | | |
| | Domestic hot water | Water side | Min.~Max. | °C | 25~80 | | | | | 25~80 | | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | | | 41 | | 44 | | | | 41 | | 44 | | | |
| Sound pressure level | Nom. | | | dBA | 26 | | | | | 27 | | 30 | | | | 27 | | 30 | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma
# low temperature split


EHBX-CB


ERHQ-BV3

## EHBX-CB + ERHQ-BV3/BW1



| Efficiency data | | | | EHBX + ERHQ | 11CB3V/9W + 011BV3 | 16CB3V/9W + 014BV3 | 16CB3V/9W + 016BV3 | 11CB3V/9W + 011BW1 | 16CB3V/9W + 014BW1 | 16CB3V/9W + 016BW1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.3 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.2 (2) | 11.3 (1) / 11.0 (2) | 14.5 (1) / 13.6 (2) | 16.1 (1) / 15.1 (2) |
| Cooling capacity | Nom. | | | kW | 13.9 (1) / 10.0 (2) | 17.3 (1) / 12.5 (2) | 17.8 (1) / 13.1 (2) | 15.1 (1) / 11.7 (2) | 16.1 (1) / 12.6 (2) | 16.8 (1) / 13.1 (2) |
| Power input | Heating | Nom. | | kW | 2.55 (1) / 3.17 (2) | 3.26 (1) / 4.04 (2) | 3.92 (1) / 4.75 (2) | 2.63 (1) / 3.24 (2) | 3.42 (1) / 4.21 (2) | 3.82 (1) / 4.69 (2) |
| | Cooling | Nom. | | kW | 3.86 (1) / 3.69 (2) | 5.86 (1) / 5.69 (2) | 6.87 (1) / 5.95 (2) | 4.53 (1) / 4.31 (2) | 5.43 (1) / 5.08 (2) | 6.16 (1) / 5.73 (2) |
| COP | | | | | 4.39 (1) / 3.25 (2) | 4.29 (1) / 3.24 (2) | 4.08 (1) / 3.20 (2) | 4.30 (1) / 3.39 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.22 (2) |
| EER | | | | | 3.60 (1) / 2.71 (2) | 2.95 (1) / 2.32 (2) | 2.59 (1) / 2.20 (2) | 3.32 (1) / 2.72 (2) | 2.96 (1) / 2.47 (2) | 2.72 (1) / 2.29 (2) |
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.86 | 2.82 | 2.92 | 2.90 | 2.80 | 2.96 |
| | | | ηs (Seasonal space heating efficiency) | % | 112 | 110 | 114 | 113 | 109 | 115 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.99 | 3.23 | 3.29 | 3.08 | 3.34 | 3.33 |
| | | | ηs (Seasonal space heating efficiency) | % | 117 | 126 | 129 | 120 | 131 | 130 |
| | | | Seasonal space heating eff. class | | A | A+ | | A | A+ | |

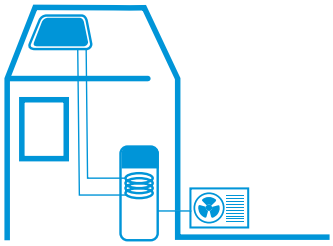
| Indoor Unit | | | EHBX | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | | 11CB3V/9W | | 16CB3V/9W | | 16CB3V/9W | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | White | | | | | | | | | | | |
| | Material | | | Precoated sheet metal | | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 890x480x344 | | | | | | | | | | | |
| Weight | Unit | | kg | 43 | 45 | 44 | 46 | 44 | 46 | 43 | 45 | 44 | 46 | 44 | 46 |
| Operation range | Heating | Water side Min.~Max. | °C | 15~55 | | | | | | | | | | | |
| | Cooling | Water side Min.~Max. | °C | 5~22 | | | | | | | | | | | |
| | Domestic hot water | Water side Min.~Max. | °C | 25~80 | | | | | | | | | | | |
| Sound power level | Nom. | | dBA | 41 | | 44 | | | | 41 | | 44 | | | |
| Sound pressure level | Nom. | | dBA | 27 | | 30 | | | | 27 | | 30 | | | |

| Outdoor Unit | | | ERHQ | 011BV3 | 014BV3 | 016BV3 | 011BW1 | 014BW1 | 016BW1 |
|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,170x900x320 | | | 1,345x900x320 | | |
| Weight | Unit | | kg | 102 | | | 108 | | |
| Compressor | Quantity | | | 1 | | | | | |
| | Type | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | °CDB | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | °CDB | -20 ~35 | | | | | |
| Refrigerant | Type | | | R-410A | | | | | |
| | GWP | | | 2,087.5 | | | | | |
| | Charge | | $TCO_2eq$ | 5.6 | | | 6.3 | | |
| | | | kg | 2.7 | | | 3.0 | | |
| | Control | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | dBA | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | dBA | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | dBA | 49 | 51 | 53 | 51 | | 52 |
| | Cooling | Nom. | dBA | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | A | 32 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); Heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C ) |
(3) Contains fluorinated greenhouse gases

# Options

| Type | | Material name | Daikin Altherma LT split wall mounted / floor standing | |
|---|---|---|---|---|
| | | | 4-8kW | 11-16kW |
| Controls | LAN adapter | BRP069A62 | • | • |
| | LAN adapter + PV solar connection | BRP069A61 | • | • |
| | Remote user interface (DE, FR, NL, IT) | EKRUCBL1 | • | • |
| | Remote user interface (EN, ES, EL, PT) | EKRUCBL3 | • | • |
| | Remote user interface (EN, SV, NO, FI) | EKRUCBL2 | • | • |
| | Remote user interface (EN, TR, PL, RO) | EKRUCBL4 | • | • |
| | Remote user interface (DE, CS, SL, SK) | EKRUCBL5 | • | • |
| | Remote user interface (EN, HR, HU, BG) | EKRUCBL6 | • | • |
| | Remote user interface (EN, DE, RU, DA) | EKRUCBL7 | • | • |
| | Simplified user interface | EKRUCBSB | • | • |
| | Room thermostat (wired) | EKRTWA | • | • |
| | Room thermostat (wireless) | EKRTR1 | • | • |
| | Centralised controller kit | EKCC-W | • | • |
| Adapter | Demand PCB | EKRP1AHTA | • | • |
| | Digital I/O PCB | EKRP1HBAA | • | • |
| Back-up heater | Back-up heater kit | EKLBUHCB6W1 | | • |
| | Booster heater for tank integrated design | EKBSHCA3V3 | | • |
| | Bottom plate heater | EKBPHTH16A | | • |
| Drain | Drain kit | EKDK04 | • | • |
| | Drain pan for indoor wall munted | EKHBDPCA2 | • | • |
| | Drain pan for outdoor (excl heater) | EKDP008CA | • | |
| | Drain pan heater | EKDPH008CA | • | |
| Filter | Magnetic filter without additives | K.FERNOXTF1 | • | • |
| | Magnetic filter with additive (500ml inhibitor fluid F1) | K.FERNOXTF1FL | • | • |
| Installation | Bi-zone kit | BZKA7V3 | • | • |
| | Snowcover | EK016SNCA | | • |
| | U-beams for outdoor | EKFT008CA | • | |
| | UK tank kit | EKVSU260A | | • |
| Sensor | Remote indoor sensor | KRCS01-1B | • | • |
| | Remote sensor for outdoor | EKRSCA1 | • | |
| | External sensor | EKRTETS | • | • |
| Others | PC cable | EKPCCAB1 | • | • |



# Daikin Altherma low temperature split integrated $ECH_2O$

**The Daikin Altherma low temperature split integrated $ECH_2O$ is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling**

## Intelligent storage management

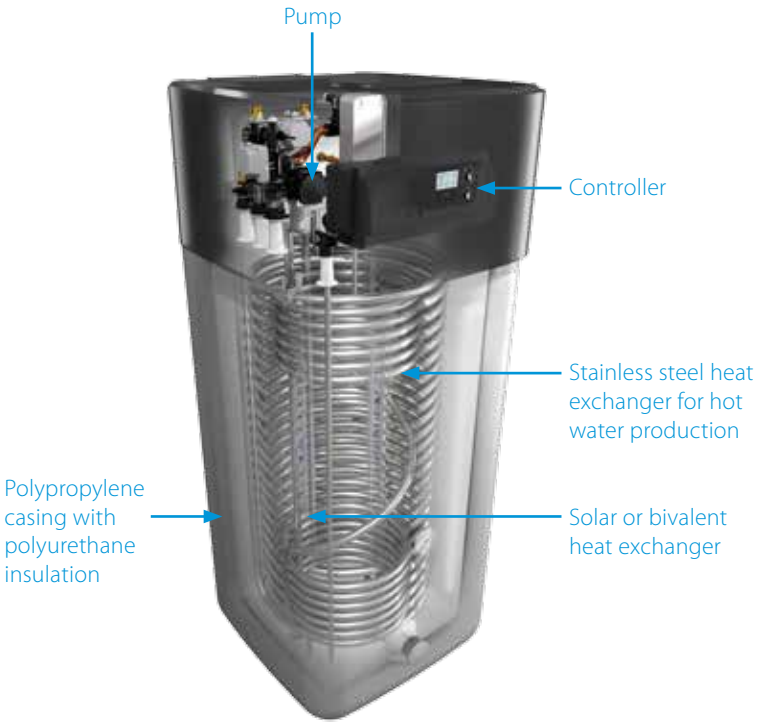
› The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
› Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
› Electronic management of both heat pump and $ECH_2O$ thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
› Achieves the highest standards for water sanitation
› Uses more renewable energy with solar connection

## Innovative and high-quality tank

› Lightweight plastic tank
› No corrosion, anode, scale or lime deposits
› Contains impact resistant polypropylene inner and outer walls filled with high-grade insulation foam to reduce heat losses to a minimum

## Combinable with other heat sources

› The bivalent option allows heat from other sources such as oil, gas or pellet-fired boilers to be stored in the solar system, further lowering energy consumption




## ECH$_2$O thermal store range: additional hot water comfort

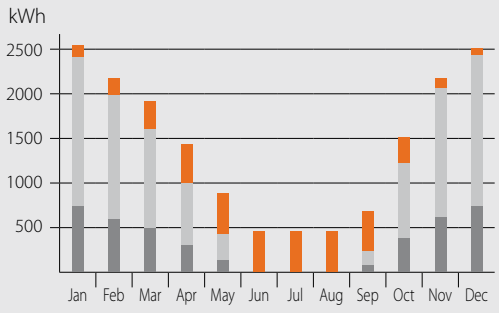
Combine your indoor unit with a thermal store to achieve the ultimate comfort at home.
› Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
› Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
› Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
› Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

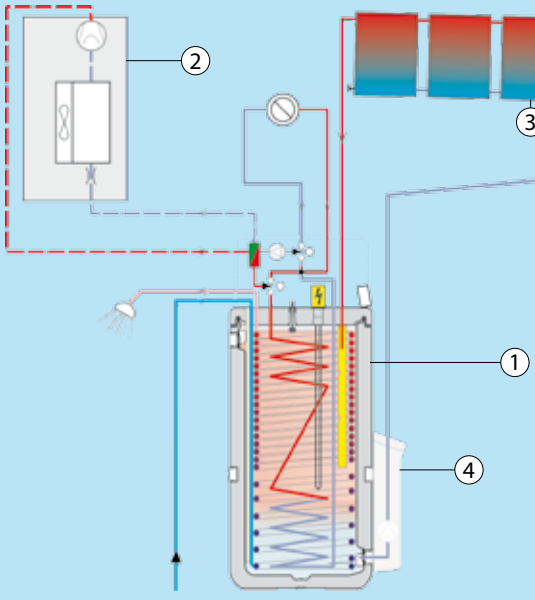
**Pressureless (drain-back) solar system (EHSH-B, EHSX-B)**
› The solar collectors are only filled with water when sufficient heating is provided by the sun
› The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
› After filling, water circulation is maintained by the remaining pump

**Pressurised solar system (EHSHB-B, EHSXB-B)**
› System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
› System is pressurised and sealed

**Monthly energy consumption of an average detached house**




Utilisation of solar energy for domestic hot water and central heating
Heat pump (environmental heat)
Auxiliary energy (electricity)




**System diagram: Integrated solar unit**

1 Use of solar energy for domestic hot water and central heating
2 External heaxt pump unit
3 Solar thermal collectors
4 Solar pump station

# Daikin Altherma low temperature split integrated ECH$_2$O

## EHSH-B + ERLQ-CV3/CW1


EHSH04-08P30B


EHSH08-16P50B


ERLQ004-008CV3

| Efficiency data | | | | EHSH + ERLQ | 04P30B + 004CV3 | 08P30B + 006CV3 | 08P50B + 006CV3 | 08P30B + 008CV3 | 08P50B + 008CV3 | 16P50B + 011CV3 | 16P50B + 014CV3 | 16P50B + 016CV3 | 16P50B + 011CW1 | 16P50B + 014CW1 | 16P50B + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.26(1)/3.47(2)/ 4.53(3)/3.98(4) | 5.14(1)/4.60(2) /6.06(3)/5.78(4) | | 5.53(1)/5.51(2) /7.78(3)/7.27(4) | | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 8.28(1)/9.57(2)/ 14.81(3)/13.73(4) | 15.34(1)/14.86(2)/ 8.04(3)/10.05(4) | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 8.28(1)/9.57(2)/ 14.81(3)/13.73(4) | 8.04(1)/10.05(2)/ 15.34(3)/14.86(4) |
| Power input | Heating | Nom. | | kW | 0.87(1)/1.04(2)/ 1.49(3)/0.85(4) | 1.30(1)/1.58(2) /1.88(3)/1.26(4) | | 1.69(1)/2.04(2) /1.98(3)/1.56(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2)/ 3.17(3)/2.93(4) | 3.42(1)/4.07(2)/ 3.17(3)/2.93(4) | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2) /3.17(3)/2.93(4) | |
| COP | | | | | 5.23(1)/3.84(2)/ 2.85(3)/4.07(4) | 4.65(1)/3.66(2) /2.73(3)/3.64(4) | | 4.60(1)/3.57(2) /2.78(3)/3.54(4) | | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) |
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 130 | 125 | | 127 | | 125 | 126 | 125 | | 126 | 125 |
| | | | Seasonal space heating eff. class | | A++ | | | | | | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | - | | | | | | | | | | |
| | | | Seasonal space heating eff. class | | - | | | | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | | L | | XL | L | | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 103 | 98 | 102 | 90 | 96 | 83 | | | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | |

| Indoor Unit | | | | EHSH | 04P30B | 08P30B | 08P50B | 08P30B | 08P50B | 16P50B |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | | | |
| | Material | | | | Impact resistant polypropylene | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,945 / 1,890x615x595 | | 1,945 / 1,890x790x790 | 1,945 / 1,890x615x595 | | 1,945 / 1,890x790x790 |
| Weight | Unit | | | kg | 84 | | 111 | 84 | 111 | 113 |
| Tank | Water volume | | | l | 294 | | 477 | 294 | | 477 |
| | Maximum water temperature | | | °C | 85 | | | | | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -25~25 | | | | | -25~35 |
| | | Water side | Min.~Max. | °C | 15~55 | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -25~35 | | | | | |
| | | Water side | Min.~Max. | °C | 25~55 | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated ECH$_2$O

## EHSHB-B + ERLQ-CV3/W1


EHSH04-08P30B


EHSH08-16P50B


ERLQ004-008CV3



| Efficiency data | | | | EHSHB + ERLQ | 04P30B + 004CV3 | 08P30B + 006CV3 | 08P50B + 006CV3 | 08P30B + 008CV3 | 08P50B + 008CV3 | 16P50B + 011CV3 | 16P50B + 014CV3 | 16P50B + 016CV3 | 16P50B + 011CW1 | 16P50B + 014CW1 | 16P50B + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.26(1)/3.47(2)/ 4.53(3)/3.98(4) | 5.14(1)/4.60(2) /6.06(3)/5.78(4) | | 5.53(1)/5.51(2) /7.78(3)/7.27(4) | | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 14.81(1)/13.73(2)/ 8.28(3)/9.57(4) | 15.34(1)/14.86(2)/ 8.04(3)/10.05(4) | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 8.28(1)/9.57(2)/ 14.81(3)/13.73(4) | 8.04(1)/10.05(2)/ 15.34(3)/14.86(4) |
| Power input | Heating | Nom. | | kW | 0.87(1)/1.04(2)/ 1.49(3)/0.85(4) | 1.30(1)/1.58(2) /1.88(3)/1.26(4) | | 1.69(1)/2.04(2) /1.98(3)/1.56(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/(2)4.07 /3.17(3)/2.93(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2)/ 3.17(3)/2.93(4) | |
| COP | | | | | 5.23(1)/3.84(2)/ 2.85(3)/4.07(4) | 4.65(1)/3.66(2) /2.73(3)/3.64(4) | | 4.60(1)/3.57(2) /2.78(3)/3.54(4) | | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) |
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 130 | 125 | | 127 | | 125 | 126 | 125 | | 126 | 125 |
| | | | Seasonal space heating eff. class | | A++ | | | | | | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | - | | | | | | | | | | |
| | | | Seasonal space heating eff. class | | - | | | | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | | L | | XL | L | | XL | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 103 | 98 | 108 | 90 | 99 | 84 | | | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | |

| Indoor Unit | | | | EHSHB | 04P30B | 08P30B | 08P50B | 08P30B | 08P50B | 16P50B |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | | | |
| | Material | | | | Impact resistant polypropylene | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,890x615x595 | | 1,890x790x790 | 1,890x615x595 | | 1,890x790x790 |
| Weight | Unit | | | kg | 89 | | 116 | 89 | 116 | 118 |
| Tank | Water volume | | | l | 294 | | 477 | 294 | | 477 |
| | Maximum water temperature | | | °C | 85 | | | | | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -25~25 | | | | | -25~35 |
| | | Water side | Min.~Max. | °C | 15~55 | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -25~35 | | | | | |
| | | Water side | Min.~Max. | °C | 25~55 | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated ECH$_2$O

## EHSX-B + ERLQ-CV3/CW1


EHSXB04-08P30B


EHSXB08-16P50B


ERLQ004-008CV3

| Efficiency data | | | | EHSX/EHSH + ERLQ | 04P30B + 004CV3 | 08P30B + 006CV3 | 08P50B + 006CV3 | 08P30B + 008CV3 | 08P50B + 008CV3 | 16P50B + 011CV3 | 16P50B + 014CV3 | 16P50B + 016CV3 | 16P50B + 011CW1 | 16P50B + 014CW1 | 16P50B + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.26(1)/3.47(2)/ 4.53(3)/3.98(4) | 5.14(1)/4.60(2) /6.06(3)/5.78(4) | | 5.53(1)/5.51(2) /7.78(3)/7.27(4) | | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 14.81(1)/13.73(2)/ 8.28(3)/9.57(4) | 15.34(1)/14.86/ 8.04(3)/10.05(4) | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 8.28(1)/9.57(2)/ 14.81(3)/13.73(4) | 8.04(1)/10.05(2)/ 15.34(3)/14.86(4) |
| Cooling capacity | Nom. | | | kW | 4.4/(1)4.0(2) | 5.2(1)/4.6(2) | | | | 15.1(1)/11.7(2) | 16.1(1)/12.6(2) | 16.8(1)/13.1(2) | 15.1(1)/11.7(2) | 16.1(1)/12.6(2) | 16.8(1)/13.1(2) |
| Power input | Heating | Nom. | | kW | 0.87(1)/1.04(2)/ 1.49(3)/0.85(4) | 1.30(1)/1.58(2) /1.88(3)/1.26(4) | | 1.69(1)/2.04(2) /1.98(3)/1.56(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2) /3.17(3)/2.93(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2) /3.17(3)/2.93(4) | |
| | Cooling | Nom. | | kW | 1.05(1)/1.41(2) | 1.43(1)/1.85(2) | | | | 4.55(1)/4.30(2) | 5.44(1)/5.10(2) | 6.18(1)/5.72(2) | 4.55(1)/4.30(2) | 5.44(1)/5.10(2) | 6.18(1)/5.72(2) |
| COP | | | | | 5.23(1)/3.84(2)/ 2.85(3)/4.07(4) | 4.65(1)/3.66(2) /2.73(3)/3.64(4) | | 4.60(1)/3.57(2) /2.78(3)/3.54(4) | | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) |
| EER | | | | | 4.21(1)/2.85(2) | 3.65(1)/2.51(2) | | | | 3.32(1)/2.72(2) | 2.96(1)/2.47(2) | 2.72(1)/2.29(2) | 3.32(1)/2.72(2) | 2.96(1)/2.47(2) | 2.72(1)/2.29(2) |
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 132 | 126 | | 128 | | | 130 | 127 | 128 | 130 | 127 |
| | | | Seasonal space heating eff. class | | A++ | | | | | | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | - | | | | | | | | | | |
| | | | Seasonal space heating eff. class | | - | | | | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | | L | | XL | L | XL | | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 103 | 98 | 102 | 90 | 96 | 83 | | | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | |

| Indoor Unit | | | | EHSX | 04P30B | 08P30B | 08P50B | 08P30B | 08P50B | 16P50B | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | | | | | | | | |
| | Material | | | | Impact resistant polypropylene | | | | | | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,890x615x595 | | 1,890x790x790 | 1,890x615x595 | 1,890x790x790 | | | 1,945 / 1,890x790x790 | 1,890x790x790 | 1,945 / 1,890x790x790 | |
| Weight | Unit | | | kg | 84 | | 111 | 84 | 111 | 116 | | 113 | 116 | 113 | |
| Tank | Water volume | | | l | 294 | | 477 | 294 | 477 | | | | | | |
| | Maximum water temperature | | | °C | 85 | | | | | | | | | | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -25~25 | | | | | -25~35 | | | | | |
| | | Water side | Min.~Max. | °C | 15~55 | | | | | | | | | | |
| | Cooling | Ambient | Min.~Max. | °CDB | 10~43 | | | | | | | -~- | 10~43 | -~- | |
| | | Water side | Min.~Max. | °C | 5~22 | | | | | -~- | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -25~35 | | | | | | | | | | |
| | | Water side | Min.~Max. | °C | 25~55 | | | | | | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | | | | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split integrated ECH$_2$O

## EHSXB-B + ERLQ-CV3/W1


EHSXB04-08P30B


EHSXB08-16P50B


ERLQ004-008CV3



| Efficiency data | | | | EHSXB + ERLQ | 04P30B + 004CV3 | 08P30B + 006CV3 | 08P50B + 006CV3 | 08P30B + 008CV3 | 08P50B + 008CV3 | 16P50B + 011CV3 | 16P50B + 014CV3 | 16P50B + 016CV3 | 16P50B + 011CW1 | 16P50B + 014CW1 | 16P50B + 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | kW | 4.26(1)/3.47(2)/ 4.53(3)/3.98(4) | 5.14(1)/4.60(2) /6.06(3)/5.78(4) | | 5.53(1)/5.51(2) /7.78(3)/7.27(4) | | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 14.81(1)/13.73(2)/ 8.28(3)/9.57(4) | 15.34(1)/14.86(2)/ 8.04(3)/10.05(4) | 5.95(1)/7.74(2)/ 11.80(3)/10.40(4) | 8.28(1)/9.57(2)/ 14.81(3)/13.73(4) | 8.04(1)/10.05(2)/ 15.34(3)/14.86(4) |
| Cooling capacity | Nom. | | | kW | 4.4(1)/4.0(2) | 5.2(1)/4.6(2) | | | | 15.1(1)/11.7(2) | 16.1(1)/12.6(2) | 16.8(1)/13.1(2) | 15.1(1)/11.7(2) | 16.1(1)/12.6(2) | 16.8(1)/13.1(2) |
| Power input | Heating | Nom. | | kW | 0.87(1)/1.04(2)/ 1.49(3)/0.85(4) | 1.30(1)/1.58(2) /1.88(3)/1.26(4) | | 1.69(1)/2.04(2) /1.98(3)/1.56(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2) /3.17(3)/2.93(4) | | 2.57(1)/3.13(2)/ 2.43(3)/2.35(4) | 3.42(1)/4.07(2) /3.17(3)/2.93(4) | |
| | Cooling | Nom. | | kW | 1.05(1)/1.41(2) | 1.43(1)/1.85(2) | | | | 4.55(1)/4.30(2) | 5.44(1)/5.10(2) | 6.18(1)/5.72(2) | 4.55(1)/4.30(2) | 5.44(1)/5.10(2) | 6.18(1)/5.72(2) |
| COP | | | | | 5.23(1)/3.84(2)/ 2.85(3)/4.07(4) | 4.65(1)/3.66(2) /2.73(3)/3.64(4) | | 4.60(1)/3.57(2) /2.78(3)/3.54(4) | | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) | 4.38(1)/3.32(2)/ 2.45(3)/3.29(4) | 4.27(1)/3.34(2)/ 2.58(3)/3.22(4) | 4.10(1)/3.22(2)/ 2.44(3)/3.15(4) |
| EER | | | | | 4.21(1)/2.85(2) | 3.65(1)/2.51(2) | | | | 3.32(1)/2.72(2) | 2.96(1)/2.47(2) | 2.72(1)/2.29(2) | 3.32(1)/2.72(2) | 2.96(1)/2.47(2) | 2.72(1)/2.29(2) |
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 132 | 126 | | 128 | | 130 | 127 | 128 | 130 | 127 | |
| | | | Seasonal space heating eff. class | | A++ | | | | | | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | - | | | | | | | | | | |
| | | | Seasonal space heating eff. class | | - | | | | | | | | | | |
| Domestic hot water heating | General | Declared load profile | | | L | | XL | L | XL | | | | | | |
| | Average climate | ηwh (water heating efficiency) | | % | 103 | 98 | 108 | 90 | 99 | 84 | | | | | |
| | | Water heating energy efficiency class | | | A | | | | | | | | | | |

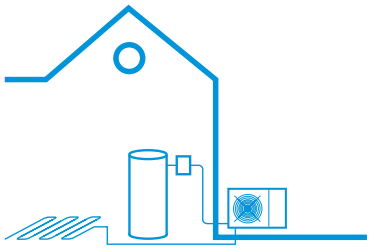
| Indoor Unit | | | | EHSXB | 04P30B | 08P30B | 08P50B | 08P30B | 08P50B | 16P50B |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | | | |
| | Material | | | | Impact resistant polypropylene | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,890x615x595 | | 1,890x790x790 | 1,890x615x595 | 1,890x790x790 | |
| Weight | Unit | | | kg | 89 | | 116 | 89 | 116 | 118 |
| Tank | Water volume | | | l | 294 | | 477 | 294 | 477 | |
| | Maximum water temperature | | | °C | 85 | | | | | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -25~25 | | | | | -25~35 |
| | | Water side | Min.~Max. | °C | 15~55 | | | | | |
| | Cooling | Ambient | Min.~Max. | °CDB | 10~43 | | | | | |
| | | Water side | Min.~Max. | °C | 5~22 | | | | | -~- |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -25~35 | | | | | |
| | | Water side | Min.~Max. | °C | 25~55 | | | | | |
| Sound power level | Nom. | | | dBA | 40 | | | | | |
| Sound pressure level | Nom. | | | dBA | 28 | | | | | |

| Outdoor Unit | | | | ERLQ | 004CV3 | 006CV3 | 008CV3 | 011CV3 | 014CV3 | 016CV3 | 011CW1 | 014CW1 | 016CW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 735x832x307 | | | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 54 | 56 | | 113 | | | 114 | | |
| Compressor | Quantity | | | | 1 | | | | | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Cooling | Min.~Max. | | °CDB | 10.0~43.0 | | | 10.0~46.0 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -25 ~35 | | | -20 ~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | | | | |
| | GWP | | | | 2,087.5 | | | | | | | | |
| | Charge | | | $TCO_2eq$ | 3.1 | 3.3 | | 7.1 | | | | | |
| | | | | kg | 1.5 | 1.6 | | 3.4 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | | | | |
| Sound power level | Heating | Nom. | | dBA | 61 | | 62 | 64 | | 66 | 64 | | 66 |
| | Cooling | Nom. | | dBA | 63 | | | 64 | 66 | 69 | 64 | 66 | 69 |
| Sound pressure level | Heating | Nom. | | dBA | 48 | | 49 | 51 | | 52 | 51 | | 52 |
| | Cooling | Nom. | | dBA | 48 | 49 | 50 | 50 | 52 | 54 | 50 | 52 | 54 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V3/1~/50/230 | | | | | | W1/3N~/50/400 | | |
| Current | Recommended fuses | | | A | 16 | | 20 | 40 | | | 20 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases

# Options

| | Type | Material name |
|---|---|---|
| Controls | Room thermostat RoCon U1 | EHS157034 |
| | Gateway RoCon G1 for apps | EHS157056 |
| | Connection kit for MK1 | VMK1 |
| Back-up heater | Back-up heater 9kW | EKBU9C |
| Installation | Heat insulation for hydraulic separator (HWC) | WHWC |
| | Separator for dirt | SAS1 |
| | Separator - hydraulic | HWC |
| Sensor | External sensor | EKRTETS |
| | Outdoor sensor for Rocon Controller | RoCon OT1 |
| Others | Mixer module RoCon M1 | EHS157068 |



# Daikin Altherma low temperature monobloc

**The reversible air-to-water monobloc system is the ideal system for users that have limited installation space inside. Delivering cutting-edge performance within the market's smallest outdoor unit, Daikin Altherma low temperature monobloc offers heating and cooling, with an optional connection to provide domestic hot water**

## A simple solution

The monobloc system combines all the features of heating and cooling (with optional domestic hot water) into one unit

› Quiet and space-saving design that's easy to commission and install
› All hydraulic components are combined into one outdoor unit
› Frost protection and insulation prevent ice build up and protect hydraulic parts. Reliable operation is guaranteed, even with outdoor temperatures as low as -25°C
› Combine with an **ECH$_2$O** thermal store to provide thermal support

## The 5-7 kW range of Daikin Altherma

› Special casing reduces the risk for ice formation on the outdoor unit coil
› Free hanging coil ensures no ice buildup on the lower part of the outdoor unit
› No electrical bottom plate heater is required
› Discharge grille design avoids ice accumulation

### Easy installation

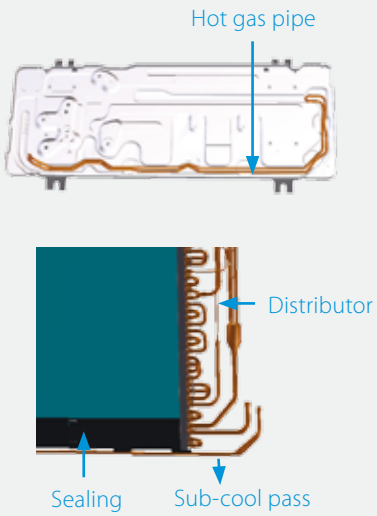
› Sealed refrigerant means there is no need for refrigerant handling or F-gas qualifications
› Key hydraulic parts reduce the risk of installation errors and need for external parts such as expansion vessel, pump or isolation valves
› Fewer components lower the installation time and help maximise profits on the job

### Year-round reliability

› Delivers higher heating capacity at low ambient temperatures (less than 10% drop off in heating capacity at -2°C)
› Flow temperatures up to 55°C
› Free hanging coil minimises frost buildup
› Reliable operation is guaranteed, even with outdoor temperatures as low as -25°C
› Equipped with optional backup heater

## The 11-16 kW range of Daikin Altherma

› Hot gas pass: hot gaseous refrigerant coming from the compressor runs through the bottom plate to keep the base free of ice and keep drain holes open
› Sub-cool pass: Before the refrigerant pipe is split by the distributor to the hairpins, the refrigerant passes through the bottom of the coil to the keep lower part free of ice accumulation




## ECH$_2$0 thermal store range

### Additional hot water comfort

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.
› Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
› Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
› Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
› Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

**Fore more info, see p. 90**

## Stainless steel and enameled tanks

If the end user only requires hot water, a separate tank can be connected (either stainless steel or enameled).


Stainless steel tank

# Daikin Altherma low temperature monobloc

**Reversible** air-to-water monobloc system, ideal when indoor space is limited

- Compact reversible monobloc for space heating and cooling with optional domestic hot water
- Fuss-free installation, with only water connections required
- Reliable operation even when -25°C outside thanks to frost protection features such as free hanging coil
- COP up to 5 with typical annual efficiencies up to 300%
- Compact heating only monobloc for space heating with optional domestic hot water
- Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- Possible to connect to photovolta.c solar panels to provide energy for your heat pump (optional)


E(D/B)LQ-CV3

| Single Unit | | | | | EBLQ/EDLQ | 05CV3 | 07CV3 | 05CV3 | 07CV3 |
|---|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | | 125 | | 126 |
| | | | SCOP | | | 3.20 | 3.22 | 3.20 | 3.22 |
| | | | Seasonal space heating eff. class | | | A++ | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | | 172 | 163 | 172 | 163 |
| | | | SCOP | | | 4.39 | 4.14 | 4.39 | 4.14 |
| | | | Seasonal space heating eff. class | | | A++ | | | |
| Heating capacity | Nom. | | | | kW | 4.40 (1) / 4.03 (2) | 7.00 (1) / 6.90 (2) | 4.40 (1) / 4.03 (2) | 7.00 (1) / 6.90 (2) |
| Cooling capacity | Nom. | | | | kW | 3.88 (1) / 3.99 (2) | 5.20 (1) / 5.15 (2) | - | |
| Power input | Cooling | Nom. | | | kW | 0.950 (1) / 1.93 (2) | 1.37 (1) / 2.69 (2) | - | |
| | Heating | Nom. | | | kW | 0.880 (1) / 1.13 (2) | 1.55 (1) / 2.45 (2) | 0.880 (1) / 1.13 (2) | 1.55 (1) / 2.02 (2) |
| COP | | | | | | 5.00 (1) / 3.58 (2) | 4.52 (1) / 3.42 (2) | 5.00 (1) / 3.58 (2) | 4.52 (1) / 3.42 (2) |
| EER | | | | | | 4.07 (1) / 2.07 (2) | 3.80 (1) / 2.10 (2) | - | |
| Dimensions | Unit | Height | | | mm | 735 | | | |
| | | Width | | | mm | 1,090 | | | |
| | | Depth | | | mm | 350 | | | |
| Weight | Unit | | | | kg | 76.0 | 80.0 | 76.0 | 80.0 |
| Operation range | Heating | Water side | Min.~Max. | | °C | 15~55.0 | | | |
| | Cooling | Ambient | Min.~Max. | | °CDB | 10.0~43.0 | | -~- | |
| | | Water side | Min.~Max. | | °C | 5.00~22.0 | | -~- | |
| | Domestic hot water | Ambient | Min.~Max. | | °CDB | -25.0~35.0 | | | |
| | | Water side | Min.~Max. | | °C | 25~80 | | | |
| Refrigerant | Type | | | | | R-410A | | | |
| | GWP | | | | | 2,088 | | 2,087.5 | |
| | Charge | | | | kg | 1.30 | 1.45 | 1.3 | 1.5 |
| | | | | | $TCO_2eq$ | 2.714 | 3.027 | 2.7 | 3.0 |
| | Control | | | | | Expansion valve (electronic type) | | | |
| Sound power level | Heating | Nom. | | | dBA | 61 | 62 | 60 | |
| | Cooling | Nom. | | | dBA | 63.0 | | - | |
| Sound pressure level | Heating | Nom. | | | dBA | 48 | 49 | 50 | |
| | Cooling | Nom. | | | dBA | 48 | 50 | - | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

| Wiring centre | | | | | EKCB07CV3 | EK2CB07CV3 |
|---|---|---|---|---|---|---|
| Dimensions | Unit | Height | | mm | 360 | |
| | | Width | | mm | 340 | |
| | | Depth | | mm | 97 | |
| Weight | Unit | | | kg | 4 | |
| Operation range | Heating | Ambient | Min.~Max. | | - | |
| | Indoor installation | Ambient | Min. | °CDB | 5 | |
| | | | Max. | °CDB | 35 | |

| Back-up heater kit | | | | | EKMBUHC3V3 | EKMBUHC9W1 |
|---|---|---|---|---|---|---|
| Dimensions | Unit | Height | | mm | 560 | |
| | | Width | | mm | 250 | |
| | | Depth | | mm | 210 | |
| Weight | Unit | | | kg | 11 | 13 |
| Operation range | Heating | Ambient | Min.~Max. | | - | |
| | Indoor installation | Ambient | Min. | °CDB | 5 | |
| | | | Max. | °CDB | 30 | |

# Daikin Altherma low temperature monobloc

**Reversible** air-to-water monobloc system, ideal when indoor space is limited

- Energy efficient **heating and cooling** system based on air-to-water heat pump technology
- Outdoor unit extracts heat from the outdoor air, even at -25°C
- Low energy bills and low CO2 emissions
- $H_2O$ piping between outdoor unit and indoor heat emitters
- Inverter controlled scroll compressor
- Built-in electric backup heater for when outdoor temperature is extremely cold
- Combinable with domestic hot water


EB(L/H)Q-BB



| Single Unit | | | | EBLQ/EBHQ | 011BB6V3 | 014BB6V3 | 016BB6V3 | 011BB6W1 | 014BB6W1 | 016BB6W1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 105 | | 101 | 107 | 110 | 111 |
| | | | SCOP | | 2.70 | 2.71 | 2.60 | 2.75 | 2.82 | 2.85 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | 129 | 130 | 123 | 129 | 130 | 127 |
| | | | SCOP | | 3.30 | 3.32 | 3.15 | 3.30 | 3.31 | 3.25 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.9 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.1 (2) | 11.2 (1) / 10.9 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.1 (2) |
| Cooling capacity | Nom. | | | kW | 12.9 (1) / 10.0 (2) | 16.0 (1) / 12.5 (2) | 16.7 (1) / 13.1 (2) | 12.9 (1) / 10.0 (2) | 16.0 (1) / 12.5 (2) | 16.7 (1) / 13.1 (2) |
| Power input | Cooling | Nom. | | kW | 3.87 (1) / 3.69 (2) | 5.75 (1) / 5.39 (2) | 6.36 (1) / 5.93 (2) | 3.87 (1) / 3.69 (2) | 5.40 (1) / 5.06 (2) | 6.15 (1) / 5.75 (2) |
| | Heating | Nom. | | kW | 2.56 (1) / 3.31 (2) | 3.29 (1) / 4.01 (2) | 3.88 (1) / 4.71 (2) | 2.60 (1) / 3.21 (2) | 3.30 (1) / 4.07 (2) | 3.81 (1) / 4.66 (2) |
| COP | | | | | 4.38 (1) / 3.28 (2) | 4.25 (1) / 3.27 (2) | 4.12 (1) / 3.20 (2) | 4.31 (1) / 3.38 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.23 (2) |
| EER | | | | | 3.32 (1) / 2.71 (2) | 2.78 (1) / 2.32 (2) | 2.63 (1) / 2.21 (2) | 3.32 (1) / 2.71 (2) | 2.96 (1) / 2.47 (2) | 2.72 (1) / 2.28 (2) |
| Dimensions | Unit | Height | | mm | 1,418 | | | | | |
| | | Width | | mm | 1,435 | | | | | |
| | | Depth | | mm | 382 | | | | | |
| Weight | Unit | | | kg | 180 | | | | | |
| Hydraulic component | Back-up heater current | Type | | | 6V3 | | | 6W1 | | |
| | | Power supply | Phase/ Frequency/ Voltage | Hz/V | 1~/50/230 | | | 3~/50/400 | | |
| Operation range | Heating | Ambient | Min.~Max. | °CWB | -20~40 | | | -30~40 | -20~40 | -30~40 | -20~40 | -30~40 | -20~40 |
| | | Water side | Min.~Max. | °C | 15 (3)~55.0 (3) | | | | | |
| | Cooling | Ambient | Min.~Max. | °CDB | 10.0~46.0 | | | | | |
| | | Water side | Min.~Max. | °C | 5.00~22.0 | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -20.0~43.0 | -15.0~43.0 | -20.0~43.0 | -15.0~43.0 | -20.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 |
| | | Water side | Min.~Max. | °C | 25~80 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | kg | 3.0 | | | | | |
| | | | | $TCO_2eq$ | 6.2 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 60 | 70 | | 60 | 70 | |
| | Cooling | Nom. | | dBA | 65.0 | 66.0 | 69.0 | 65.0 | 66.0 | 69.0 |
| Sound pressure level | Heating | Nom. | | dBA | 50 | | | | | |
| | Cooling | Nom. | | dBA | 50 | | | | | |
| Compressor component | Main power supply | Name | | | V3 | | | W1 | | |
| | | Phase | | | 1~ | | | 3N~ | | |
| | | Frequency | | Hz | 50 | | | | | |
| | | Voltage | | V | 230 | | | 400 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) 15°C-25°C: BUH only, no heat pump operation = during commissioning (4) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature monobloc

**Heating only** air-to-water monobloc system, ideal when indoor space is limited


ED(L/H)Q-BB

| Single Unit | | | | EDLQ/EDHQ | 011BB6V3 | 014BB6V3 | 016BB6V3 | 011BB6W1 | 014BB6W1 | 016BB6W1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | 105 | | 101 | 107 | 110 | 111 |
| | | | SCOP | | 2.70 | 2.71 | 2.60 | 2.75 | 2.82 | 2.85 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | 129 | 130 | 123 | 129 | 130 | 127 |
| | | | SCOP | | 3.30 | 3.32 | 3.15 | 3.30 | 3.31 | 3.25 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| Heating capacity | Nom. | | | kW | 11.2 (1) / 10.9 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.1 (2) | 11.2 (1) / 10.9 (2) | 14.0 (1) / 13.1 (2) | 16.0 (1) / 15.1 (2) |
| Power input | Heating | Nom. | | kW | 2.56 (1) / 3.31 (2) | 3.29 (1) / 4.01 (2) | 3.88 (1) / 4.71 (2) | 2.60 (1) / 3.21 (2) | 3.30 (1) / 4.07 (2) | 3.81 (1) / 4.66 (2) |
| COP | | | | | 4.38 (1) / 3.28 (2) | 4.25 (1) / 3.27 (2) | 4.12 (1) / 3.20 (2) | 4.31 (1) / 3.38 (2) | 4.24 (1) / 3.22 (2) | 4.20 (1) / 3.23 (2) |
| Dimensions | Unit | Height | | mm | 1,418 | | | | | |
| | | Width | | mm | 1,435 | | | | | |
| | | Depth | | mm | 382 | | | | | |
| Weight | Unit | | | kg | 180 | | | | | |
| Hydraulic component | Back-up heater current | Type | | | 6V3 | | | 6W1 | | |
| | | Power supply | Phase/ Frequency/ Voltage | Hz/V | 1~/50/230 | | | 3~/50/400 | | |
| Operation range | Heating | Ambient | Min.~Max. | °CWB | -20~40 | | | -30~40 | -20~40 | -30~40 | -20~40 | -30~40 | -20~40 |
| | | Water side | Min.~Max. | °C | 15 (3)~55.0 (3) | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -20.0~43.0 | -15.0~43.0 | -20.0~43.0 | -15.0~43.0 | -20.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 | -25.0~43.0 | -15.0~43.0 |
| | | Water side | Min.~Max. | °C | 25~80 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | kg | 3.0 | | | | | |
| | | | | $TCO_2eq$ | 6.2 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 60 | 70 | | 60 | 70 | |
| Sound pressure level | Heating | Nom. | | dBA | 50 | | | | | |
| Compressor component | Main power supply | Name | | | V3 | | | W1 | | |
| | | Phase | | | 1~ | | | 3N~ | | |
| | | Frequency | | Hz | 50 | | | | | |
| | | Voltage | | V | 230 | | | 400 | | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) 15°C-25°C: BUH only, no heat pump operation = during commissioning (4) Contains fluorinated greenhouse gases

# Daikin Altherma
# low temperature monobloc

EB(L/H)Q-BB

ED(L/H)Q-BB

## EB(L/H)Q-BB6V3/W1 ED(L/H)Q-BB6V3/W1

| Single Unit | | | | | EBLQ/EDLQ | 05CV3 | 07CV3 | 05CV3 | 07CV3 |
|---|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | % | | | 125 | | 126 |
| | | | SCOP | | | 3.20 | 3.22 | 3.20 | 3.22 |
| | | | Seasonal space heating eff. class | | | | A++ | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | | 172 | 163 | 172 | 163 |
| | | | SCOP | | | 4.39 | 4.14 | 4.39 | 4.14 |
| | | | Seasonal space heating eff. class | | | | A++ | | |
| Heating capacity | Nom. | | | | kW | 4.40 (1) / 4.03 (2) | 7.00 (1) / 6.90 (2) | 4.40 (1) / 4.03 (2) | 7.00 (1) / 6.90 (2) |
| Cooling capacity | Nom. | | | | kW | 3.88 (1) / 3.99 (2) | 5.20 (1) / 5.15 (2) | - | |
| Power input | Cooling | Nom. | | | kW | 0.950 (1) / 1.93 (2) | 1.37 (1) / 2.69 (2) | - | |
| | Heating | Nom. | | | kW | 0.880 (1) / 1.13 (2) | 1.55 (1) / 2.45 (2) | 0.880 (1) / 1.13 (2) | 1.55 (1) / 2.02 (2) |
| COP | | | | | | 5.00 (1) / 3.58 (2) | 4.52 (1) / 3.42 (2) | 5.00 (1) / 3.58 (2) | 4.52 (1) / 3.42 (2) |
| EER | | | | | | 4.07 (1) / 2.07 (2) | 3.80 (1) / 2.10 (2) | - | |
| Dimensions | Unit | Height | | | mm | | 735 | | |
| | | Width | | | mm | | 1,090 | | |
| | | Depth | | | mm | | 350 | | |
| Weight | Unit | | | | kg | 76.0 | 80.0 | 76.0 | 80.0 |
| Operation range | Heating | Water side | Min.~Max. | | °C | | 15~55.0 | | |
| | Cooling | Ambient | Min.~Max. | | °CDB | 10.0~43.0 | | -~- | |
| | | Water side | Min.~Max. | | °C | 5.00~22.0 | | -~- | |
| | Domestic hot water | Ambient | Min.~Max. | | °CDB | | -25.0~35.0 | | |
| | | Water side | Min.~Max. | | °C | | 25~80 | | |
| Refrigerant | Type | | | | | | R-410A | | |
| | GWP | | | | | 2,088 | | 2,087.5 | |
| | Charge | | | | kg | 1.30 | 1.45 | 1.3 | 1.5 |
| | | | | | $TCO_2eq$ | 2.714 | 3.027 | 2.7 | 3.0 |
| | Control | | | | | | Expansion valve (electronic type) | | |
| Sound power level | Heating | Nom. | | | dBA | 61 | 62 | 60 | |
| | Cooling | Nom. | | | dBA | 63.0 | | - | |
| Sound pressure level | Heating | Nom. | | | dBA | 48 | 49 | 50 | |
| | Cooling | Nom. | | | dBA | 48 | 50 | - | |

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )
(3) Contains fluorinated greenhouse gases

| Wiring centre | | | | | EKCB07CV3 | EK2CB07CV3 |
|---|---|---|---|---|---|---|
| Dimensions | Unit | Height | | mm | 360 | |
| | | Width | | mm | 340 | |
| | | Depth | | mm | 97 | |
| Weight | Unit | | | kg | 4 | |
| Operation range | Heating | Ambient | Min.~Max. | | - | |
| | Indoor installation | Ambient | Min. | °CDB | 5 | |
| | | | Max. | °CDB | 35 | |

| Back-up heater kit | | | | | EKMBUHC3V3 | EKMBUHC9W1 |
|---|---|---|---|---|---|---|
| Dimensions | Unit | Height | | mm | 560 | |
| | | Width | | mm | 250 | |
| | | Depth | | mm | 210 | |
| Weight | Unit | | | kg | 11 | 13 |
| Operation range | Heating | Ambient | Min.~Max. | | - | |
| | Indoor installation | Ambient | Min. | °CDB | 5 | |
| | | | Max. | °CDB | 30 | |

# Options

| Type | | Material name | Daikin Altherma LT monobloc | |
|---|---|---|---|---|
| | | | 5-7 kW | 11-16 kW |
| Controls | LAN adapter | BRP069A62 | • | |
| | LAN adapter + PV solar connection | BRP069A61 | • | |
| | Remote user interface (DE, FR, NL, IT) | EKRUCBL1 | • | |
| | Remote user interface (EN, ES, EL, PT) | EKRUCBL3 | • | |
| | Remote user interface (EN, SV, NO, FI) | EKRUCBL2 | • | |
| | Remote user interface (EN, TR, PL, RO) | EKRUCBL4 | • | |
| | Remote user interface (DE, CS, SL, SK) | EKRUCBL5 | • | |
| | Remote user interface (EN, HR, HU, BG) | EKRUCBL6 | • | |
| | Remote user interface (EN, DE, RU, DA) | EKRUCBL7 | • | |
| | Simplified user interface | EKRUCBSB | • | |
| | Room thermostat (wired) | EKRTWA | • | • |
| | Room thermostat (wireless) | EKRTR1 | • | • |
| Adapter | Digital I/O PCB | EKRP1HBAA | | • |
| Back-up heater | Back-up heater monobloc | EKMBUHBA6V3 | • | |
| | Bottom plate heater | EKBPHTH16A | | • |
| Drain | Drain kit | EKDK04 | | • |
| Installation | Outdoor unit guard | K.CG750S | • | |
| | Outdoor unit guard small (H750xW1050xD460) **(UK only)** | K.CGS | • | |
| | Outdoor unit guard medium (H1150xW1150xD650) **(UK only)** | K.CGM | • | |
| | Outdoor unit guard large (H1450xW1150xD650) **(UK only)** | K.CGL | • | |
| | Additional front/back plate for outdoor unit guard K.CG7505 | K.CG750FPS | • | |
| | Additional front/back plate for outdoor unit guard K.CGM **(UK only)** | K.CGFPM | • | |
| | Additional front/back plate for outdoor unit guard K.CGL **(UK only)** | K.CGFPL | • | |
| | Base plate for outdoor unit guard K.CG7505 | K.CG750BPML | • | |
| | Base plate for high mounted guard | K.CGBPML | • | |
| | Condensate drip tray 1100mm | K.DT2 | • | |
| | Condensate drip tray 800mm **(UK only)** | K.DT1 | • | |
| | Fixings for steel drip tray to flexi feet | K.DTFB | • | |
| | Flexi foot narrow | K.FF600ASN | • | |
| | Flexi foot standard | K.FF600S | • | |
| | Flexible hose 500mm | K.HOSE500 | • | |
| | Flexible hose 750mm | K.HOSE750 | • | |
| | Flexible hose 750mm with elbow | K.HOSE750EL | • | |
| | Part guard to cover exposed side coil | K.CGSIDE | • | |
| | Through wall instulation sleeve kit | K.SLEEVE | • | |
| | Wall brackets - stainless steel (250 kg, 660 mm long) | K.CWBXLSS | • | |
| | Wall brackets - stainless steel (90 kg, 500 mm long) **(UK only)** | K.CWB90SS | • | |
| | Wall brackets - stainless steel (140 kg, 540 mm long) **(UK only)** | K.CWBLSS | • | |
| | Wall brackets (250 kG, 660mm long) | K.CWBXL | • | |
| | Wall brackets (90 kg, 500mm long) **(UK only)** | K.CWB90-2 | • | |
| | Wall brackets (140 kG, 540mm long) **(UK only)** | K.CWB140-2 | • | |
| Sensor | External sensor | EKRTETS | • | • |
| Others | Cable | EKCOMCAB1 | • | |


DAIKIN

# Daikin Altherma high temperature

## Why choose a Daikin Altherma high temperature split

**The Daikin Altherma high temperature split is the perfect heating solution to upgrade an old heating and hot water system to achieve more cost savings and energy efficiency, without replacing the existing piping and radiators**

## Comfort

### Best for renovation projects

Air-to-water high temperature heat pumps are ideal for renovations and replacing old boilers. Daikin Altherma high temperature split's compact design requires minimal installation space and integrates seamlessly with your existing piping and radiators. Minimal installation ensures you can enjoy the energy efficiency of a heat pump without having to replace your entire system.

- Easy replacement: reuse existing piping/radiators
- Reduced installation time
- Limited installation space needed as the indoor unit and domestic hot water tank can be stacked together
- No need to change existing radiators and piping as water temperatures can be increased up to 80°C for heating and domestic hot water use


Whether your customer wants only domestic hot water or the advantage of solar energy, Daikin offers a wide range of options, including:

### Stainless steel domestic hot water tank

The domestic hot water tank can be stacked on top of the indoor unit to save space, or installed next to each other if space is available.

- Available in 200 or 250 litres
- Efficient temperature heating: from 10°C – 50°C in only 60 minutes*

*Test completed with a 16 kW outdoor unit at ambient temperature of 7°C for a 200 litre tank


Non-stacked Stacked

### ECH$_2$O thermal store: hot water savings with solar energy

Combine the Daikin Altherma heat pump with a thermal store to reduce energy costs by taking advantage of the sun's renewable energy. Built for small and large homes, customers can choose from a pressureless or pressurised hot water system. **For more information, see page 67**



## Energy efficiency

### Powered by renewable energy

Powered by **65% renewable energy** extracted from the air and 35% electricity, our Daikin Altherma high temperature heat pump provides heating and hot water with A+ energy efficiency.

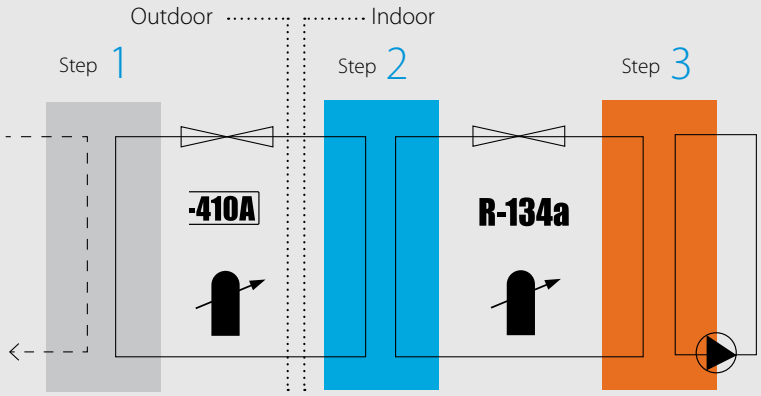
## Reliability

The Daikin Altherma high temperature split optimises its technology to deliver reliable year-round comfort, even in the most extreme climates.

› 11-15 kW capacities
› Low running costs and optimum comfort at even the coldest outdoor temperatures, thanks to the unique cascade compressor approach
› Works with existing high temperature radiators up to 80°C without an additional backup heater

### Cascade technology

High performance heating in 3 steps to achieve 80°C water temperature without using an additional backup heater




1 **The outdoor unit** extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via R-410A refrigerant

2 The **indoor unit** increases the temperature with R-134a refrigerant

3 The **refrigerant circuit** transfers the heat to the water in the system

# Daikin Altherma high temperature split

## EKHBRD-ADV17/Y17

| Efficiency data | | | | EKHBRD + ERRQ/ERSQ | 011ADV17 + 011AV1 | 014ADV17 + 014AV1 | 016ADV17 + 016AV1 | 011ADY17 + 011AY1 | 014ADY17 + 014AY1 | 016ADY17 + 016AY1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | SCOP | | 2.96 | 2.98 | 3.01 | 2.96 | 2.98 | 3.01 |
| | | | $\eta_s$ (Seasonal space heating efficiency) | % | 115 | 116 | 117 | 115 | 116 | 117 |
| | | | Seasonal space heating eff. class | | A+ | | | | | |
| | Average climate water outlet 35°C | General | SCOP | | 2.70 | 2.81 | 2.88 | 2.70 | 2.81 | 2.88 |
| | | | $\eta_s$ (Seasonal space heating efficiency) | % | 105 | 110 | 112 | 105 | 110 | 112 |
| | | | Seasonal space heating eff. class | | C | B | | C | B | |
| Heating capacity | Nom. | | | kW | 11.3 / 11.0 / 11.2 | 14.5 / 14.0 / 14.4 | 16.0 / 16.0 / 16.0 | 11.3 / 11.0 / 11.2 | 14.5 / 14.0 / 14.4 | 16.0 / 16.0 / 16.0 |
| Power input | Heating | Nom. | | kW | 3.80 / 4.40 / 2.67 | 5.02 / 5.65 / 3.87 | 5.86 / 6.65 / 4.31 | 3.80 / 4.40 / 2.67 | 5.02 / 5.65 / 3.87 | 5.86 / 6.65 / 4.31 |
| COP | | | | | 2.97 / 2.50 / 4.20 | 2.89 / 2.48 / 3.72 | 2.73 / 2.41 / 3.72 | 2.97 / 2.50 / 4.20 | 2.89 / 2.48 / 3.72 | 2.73 / 2.41 / 3.72 |

| Indoor Unit | | | | EKHBRD | 011ADV17 | 014ADV17 | 016ADV17 | 011ADY17 | 014ADY17 | 016ADY17 |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Metallic grey | | | | | |
| | Material | | | | Precoated sheet metal | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | 705x600x695 | | | | | |
| Weight | Unit | | | kg | 144 | | | 147 | | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -20.0 / 0.00~20 | | | | | |
| | | Water side | Min.~Max. | °C | 25~80.0 | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | °CDB | -20.0~35.0 | | | | | |
| | | Water side | Min.~Max. | °C | 25~80 | | | | | |
| Refrigerant | Type | | | | R-134a | | | | | |
| | Charge | | | kg | 2.60 | | | | | |
| Sound pressure level | Nom. | | | dBA | 43.0 / 46.0 / 0.00 / 0.00 | 45.0 / 46.0 / 0.00 / 0.00 | 46.0 / 46.0 / 0.00 / 0.00 | 43.0 / 46.0 / 0.00 / 0.00 | 45.0 / 46.0 / 0.00 / 0.00 | 46.0 / 46.0 / 0.00 / 0.00 |
| | Night quiet mode | Level 1 | | dBA | 40.0 / 0.00 / 0.00 | 43.0 / 0.00 / 0.00 | 45.0 / 0.00 / 0.00 | 40.0 / 0.00 / 0.00 | 43.0 / 0.00 / 0.00 | 45.0 / 0.00 / 0.00 |

| Outdoor Unit | | | | ERRQ/ERSQ | 011AV1 | 014AV1 | 016AV1 | 011AY1 | 014AY1 | 016AY1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,345x900x320 | | | | | |
| Weight | Unit | | | kg | 120 | | | | | |
| Compressor | Quantity | | | | 1 | | | | | |
| | Type | | | | Hermetically sealed scroll compressor | | | | | |
| Operation range | Heating | Min.~Max. | | °CWB | -20~20 | | | | | |
| | Domestic hot water | Min.~Max. | | °CDB | -20~35 | | | | | |
| Refrigerant | Type | | | | R-410A | | | | | |
| | GWP | | | | 2,087.5 | | | | | |
| | Charge | | | $TCO_2eq$ | 9.4 | | | | | |
| | | | | kg | 4.5 | | | | | |
| | Control | | | | Expansion valve (electronic type) | | | | | |
| Sound power level | Heating | Nom. | | dBA | 68 | 69 | 71 | 68 | 69 | 71 |
| Sound pressure level | Heating | Nom. | | dBA | 52 | 53 | 55 | 52 | 53 | 55 |
| Power supply | Name/Phase/Frequency/Voltage | | | Hz/V | V1/1~/50/220-240 | | | Y1/3~/50/380-415 | | |
| Current | Recommended fuses | | | A | 25 | | | 16 | | |

# Options

| Type | | Material name |
|---|---|---|
| Controls | Remote user interface | EKRUAHTB |
| | Room thermostat (wired) | EKRTWA |
| | Room thermostat (wireless) | EKRTR1 |
| | Standard protocol interface for HT and Flex Type | RTD-W |
| | Centralised controller kit | EKCC-W |
| Adapter | Demand PCB | EKRP1AHTA |
| | Digital I/O PCB | EKRP1HBAA |
| Back-up heater | Back-up heater for HT 1~ | EKBUHAA6V3 |
| | Back-up heater for HT 3~ | EKBUHAA6W1 |
| | Bottom plate heater | EKBPHTH16A |
| Installation | UK tank kit | EKUHWHTA |
| | Stand alone kit | EKFMAHTB |
| Sensor | External sensor | EKRTETS |
| Valve | Refrigerant stop valves | EKRSVHTA |
| Others | Compatibility kit 1 | EKMKHT1A |
| | Compatibility kit 2 | EKMKHT2A |

# Daikin Altherma hybrid heat pump

## Why choose a Daikin Altherma hybrid heat pump

**The Daikin Altherma hybrid heat pump is the ideal solution to replace your old gas boiler.**

### Comfort

#### Heating

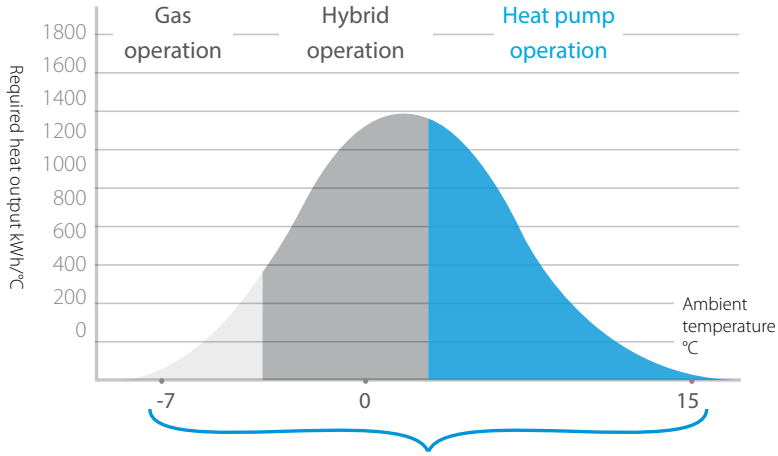
A Daikin Altherma hybrid heat pump automatically determines the most economic and energy efficient heating combination

› **Heat pump operation:** the best available technology for optimising running costs at moderate outdoor temperatures

› **Hybrid operation:** both the gas boiler and heat pump operate simultaneously to deliver the ultimate comfort for your customer

› **Gas operation:** when outdoor temperatures drastically drop, the unit will automatically switch to gas operation mode

Illustration of an average European climate

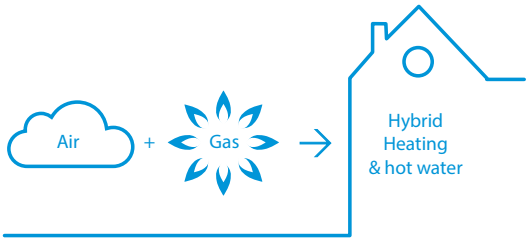



+ 35% efficiency
(space heating) compared to condensing boiler

› Heat load: 14 kW
› 70% heat pump output
› 30% gas boiler output

Heat load = the capacity of the space heating system required to maintain comfortable indoor temperatures at any time

Required heat output = heat load x n° of occuring hours per year




## Hot water
The gas condensing boiler's dual heat exchanger increases hot water efficiency by up to 15% when compared with traditional gas boilers

## Cooling
Incorporate cooling for a total solution that integrates seamlessly with underfloor heating or radiators

## Quick and easy installation
As the heat pump indoor unit and gas condensing boiler are delivered as separate units, they are easier to handle, operate and install

## Investment benefits
› Combines with existing radiators; reducing the cost and disruption of installations
› Coverage of heat loads up to 27 kW makes this unit ideal for renovation applications
› Possible to connect to photovoltaïc solar panels to optimise self-consumption of the electiricy produced


**Heat pump outdoor unit**

**Heat pump indoor unit**



A++

# Energy efficiency

## The ideal combination
Depending on the outdoor temperature, energy prices and the internal heat load, the Daikin Altherma hybrid heat pump smartly chooses between the heat pump and/or the gas boiler, possibly in simultaneous operation, and always selects the most economic operation mode.

## Supported by renewable energy
When working in heat pump mode, the system is powered by renewable energy extracted from the air and can achieve up to **A++ energy efficiency**.

## Hot water produced with gas condensing technology
Unique dual heat exchanger increases efficiency up to 15% compared to traditional gas boilers

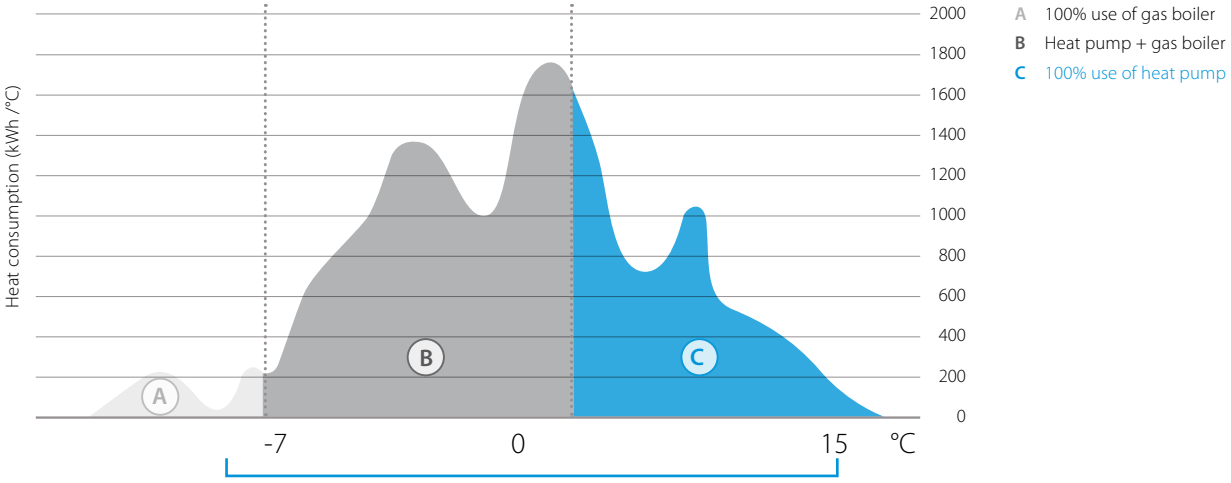
› Cold tap water flows directly into the heat exchanger
› Optimal and continuous condensing of the flue gases during domestic hot water preparation

# Reliability

› Low investment cost with no need to replace existing piping and radiators
› Low running costs for heating and domestic hot water
› Compact dimensions
› Ideal for renovation applications
› Easy and fast installation

# Replacing a gas boiler with a Daikin Altherma hybrid heat pump means saving on running costs for both space heating and domestic hot water supply.

A running costs comparison is made below based on parameters for a typical Belgian winter. As a result of the hybrid principle, the most cost-efficient operation will be used no matter the ambient outdoor temperature.




**+35% efficiency (space heating) compared to existing condensing gas boiler**

| | Daikin altherma hybrid heat pump | New gas condensing boiler | Existing gas condensing boiler |
|---|---|---|---|
| | | **Space heating** | |
| Energy supplied by HP | 12,800 kWh | | |
| HP efficiency | 3.64 Scop | | |
| Energy supplied by gas boiler | 6,700 kWh | 19,500 kWh | 19,500 kWh |
| Space heating efficiency | 90% | 90% | 75% |
| Running costs | 1,220 € | 1,520 € | 1,820 € |
| | | DHW HEATING | |
| Energy supplied by gas boiler* | 3,000 kWh | 3,000 kWh | 3,000 kWh |
| DHW heating efficiency* | 90% | 80% | 65 % |
| Running costs* | 230 € | 260 € | 320 € |
| | | TOTAL | |
| Running costs | 1,450 € | 1,780 € | 2,140 € |

* for combi-boiler, no separate domestic hot water tank

## Conditions

| | |
|---|---|
| Heat load | 16 kW |
| Design temperature | -8°C |
| Space heating off temperature | 16°C |
| Maximum water temperature | 60°C |
| Minimum water temperature | 38°C |
| Gas price | 0.070 €/kWh |
| Electricity price (day) | 0.237 €/kWh |
| Electricity price (night) | 0.152 €/kWh |
| Total space heating requirement | 19,500 kWh |
| Total DHW heating requirement (4 persons) | 3,000 kWh |

## Yearly savings: for space heating and domestic hot water

**-19%** versus new gas condensing boiler **330 €/year**

**-32%** versus existing gas condensing boiler **690 €/year**

# Daikin Altherma hybrid heat pump

# + multi

**The Daikin Altherma hybrid heat pump can also be combined with an air-to-air multi system to provide optimal cooling. Easily installed and managed via an app on a smartphone or tablet, the Daikin Altherma hybrid heat pump + multi is an all-in-one system for heating, cooling and hot water purposes.**

## Multi features

- ☑ Equipped with Bluevolution technology
- ☑ 3, 4 and 5 ports for multi outdoor units
- ☑ Combinable with different split indoor units:
  - › Daikin Emura
  - › FTXM
  - › FTXP
  - › FDXM

One port can be used for hot water production
Control with Daikin Online Controller app

| CONNECTABLE INDOOR UNITS | Wall mounted | | | | | | | | | | | | | | | Concealed ceiling | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CTXM-M | FTXM-M | | | | | | | FTXJ-M | | | | FTXP-K3 | | | FDXM-F3 | | | |
| | 15 | 20 | 25 | 35 | 42 | 50 | 60 | 71 | 20 | 25 | 35 | 50 | 20 | 25 | 35 | 25 | 35 | 50 | 60 |
| 3MXM52M2V1B | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | | | ● | ● | ● | |
| 3MXM68M2V1B | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | | | | ● | ● | ● | ● |
| 4MXM68M2V1B | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | | | | ● | ● | ● | ● |
| 4MXM80M2V1B | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● |
| 5MXM90M2V1B | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● |

*Note: blue cells combination to be confirmed

| Outdoor unit | | | | | 3MXM52N | 3MXM68N | 4MXM68N | 4MXM80N | 5MXM90N |
|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 734x958x340 | | | | |
| Weight | Unit | | | kg | 57 | 62 | 63 | 67 | 68 |
| Sound power level | Cooling | | | dBA | 59 | 61 | | | 64 |
| | Heating | | | dBA | 59 | 61 | | | 64 |
| Sound pressure level | Cooling | Nom. | | dBA | 46 | 48 | | 49 | 52 |
| | Heating | Nom. | | dBA | 47 | 48 | | 49 | 52 |
| Operation range | Cooling | Ambient | Min.~Max. | °CDB | -10~46 | | | | |
| | Heating | Ambient | Min.~Max. | °CWB | -15~18 | | | | |
| Refrigerant | Type | | | | R-32 | | | | |
| | Charge | | | kg | 1.80 | 2.00 | | 2.40 | |
| | | | | $TCO_2eq$ | 1.2 | 1.4 | | 1.6 | |
| | GWP | | | | 675 | | | | |
| Piping connections | Liquid | OD | | mm | 6.35 | | | | |
| | Gas | OD | | mm | 9.5 | | | | |
| | Piping length | OU - IU | Max. | m | 25 | | | | |
| | | System | Chargeless | m | - | | | | |
| | Additional refrigerant charge | | | kg/m | 0.02 (for piping length exceeding 30m) | | | | |
| | Level difference | IU - OU | Max. | m | 15 | | | | |
| Power supply | Phase / Frequency / Voltage | | | Hz / V | 1~ / 50 / 220-240 | | | | |
| Current - 50Hz | Maximum fuse amps (MFA) | | | A | 30 | | | | |

# Daikin Altherma hybrid heat pump

EHYHBH/X-AV32 / EHYKOMB33A2/3

EVLQ-CV3

## EHYHBH-AV32/EHYKOMB-AA2/3 + EVLQ-CV3

| Efficiency data | | | | | EHYHBH/EHYHBX + EVLQ | 05AV32 + 05CV3 | 08AV32 + 08CV3 | 08AV3 + 08CV3 |
|---|---|---|---|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | SCOP | | | 3.28 | 3.24 | 3.29 |
| | | | ηs (Seasonal space heating efficiency) | % | | 128 | 127 | 129 |
| | | | Seasonal space heating eff. class | | | A++ | | |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) | % | | - | | |
| | | | Seasonal space heating eff. class | | | - | | |
| Domestic hot water heating | General | Declared load profile | | | | XL | | |
| | Average climate | ηwh (water heating efficiency) | | % | | 95.8 | | |
| | | Water heating energy efficiency class | | | | A | | |
| Heating capacity | Nom. | | | kW | | 4.40 (1) / 4.03 (2) | 7.40 (1) / 6.89 (2) | 7.40 (3) / 6.89 (4) |
| Cooling capacity | Nom. | | | kW | | - | | 6.86 (4) / 5.36 (4) |
| Power input | Heating | Nom. | | kW | | 0.870 (1) / 1.13 (2) | 1.66 (1) / 2.01 (2) | 1.66 (3) / 2.01 (4) |
| | Cooling | Nom. | | kW | | - | | 2.01 (3) / 2.34 (4) |
| COP | | | | | | 5.04 (1) / 3.58 (2) | 4.45 (1) / 3.42 (2) | 4.45 (3) / 3.42 (4) |
| EER | | | | | | - | | 3.42 (3) / 2.29 (4) |

| Indoor Unit | | | | EHYHBH/X | 05AV32 | 08AV32 | 08AV3 | EHYKOMB33AA2 | EHYKOMB33AA3 |
|---|---|---|---|---|---|---|---|---|---|
| Central heating | Heat input Qn (net calorific value) | Nom | Min-Max | kW | - | | | 7.6 / 6.2 / 7.6-27 / 22.1 / 27 | |
| | Output Pn at 80/60°C | Min-Nom | | kW | - | | | 8.2 / 6.7 / 8.2-26.6 / 21.8 / 26.6 | |
| | Efficiency | Net calorific value | | % | - | | | 98 / 107 | |
| | Operation range | Min/Max | | °C | - | | | 15/80 | |
| Domestic hot water | Output | Min-Nom | | kW | - | | | 7.6-32.7 | |
| | Water flow | Rate | Nom | l/min | - | | | 9.0 / 15.0 | |
| | Operation range | Min/Max | | °C | - | | | 40/65 | |
| Gas | Connection | Diameter | | mm | - | | | 15 | |
| | Consumption (G20) | Min-Max | | $m^3/h$ | - | | | 0.78-3.39 | |
| | Consumption (G25) | Min-Max | | $m^3/h$ | - | | | 0.90-3.93 | |
| | Consumption (G31) | Min-Max | | $m^3/h$ | - | | | 0.30-1.29 | |
| Supply air | Connection | | | mm | - | | | 100 | |
| | Concentric | | | | - | | | Yes | |
| Flue gas | Connection | | | mm | - | | | 60 | |
| Casing | Colour | | | | White | | | White - RAL9010 | |
| | Material | | | | Precoated sheet metal | | | | |
| Dimensions | Unit | HeightxCasingxIntegrated on indoor unitxWidth | | mm | 902x450x164 | | | 710x-x450x240 | 820x-x490x270 |
| Weight | Unit | Empty | | kg | 30 | 31.2 | | 36 | |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | - | | | 1~/50/230 | |
| Electrical power consumption | Max. | | | W | 75 | | | 55 | |
| | Standby | | | W | 13 | | | 2 | |
| Operation range | Heating | Ambient | Min.~Max. | °C | -25~25 | | | | |
| | | Water side | Min.~Max. | °C | 25~55 | | | | |
| | Cooling | Ambient | Min.~Max. | °CDB | -~- | | 10~43 | | |
| | | Water side | Min.~Max. | °C | -~- | | 5~22 | | |
| Notes | | | | | - | | | For water circuit central heating, safety valve: refer to EHYHB* | |

| Outdoor Unit | | | EVLQ | 05CV3 | 08CV3 |
|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | 735x832x307 | |
| Weight | Unit | | kg | 54 | 56 |
| Compressor | Quantity | | | 1 | |
| | Type | | | Hermetically sealed swing compressor | |
| Operation range | Heating | Min.~Max. | °CWB | -25~25 | |
| Refrigerant | Type | | | R-410A | |
| | GWP | | | 2,087.5 | |
| | Charge | | $TCO_2eq$ | 3.0 | 3.3 |
| | | | kg | 1.5 | 1.6 |
| | Control | | | Expansion valve (electronic type) | |
| Sound power level | Heating | Nom. | dBA | 61 | 62 |
| Sound pressure level | Heating | Nom. | dBA | 48 | 49 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | V3/1~/50/230 | |
| Current | Recommended fuses | | A | 20 | |

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) (3) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)
(4) Cooling Ta 35°C - LWE 7°C ( DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C ( DT = 5°C )

# Options

| | Type | Material name |
|---|---|---|
| Controls | LAN adapter | BRP069A62 |
| | LAN adapter + PV solar connection | BRP069A61 |
| | Remote user interface (DE, FR, NL, IT) | EKRUCBL1 |
| | Remote user interface (EN, ES, EL, PT) | EKRUCBL3 |
| | Remote user interface (EN, SV, NO, FI) | EKRUCBL2 |
| | Remote user interface (EN, TR, PL, RO) | EKRUCBL4 |
| | Remote user interface (DE, CS, SL, SK) | EKRUCBL5 |
| | Remote user interface (EN, HR, HU, BG) | EKRUCBL6 |
| | Remote user interface (EN, DE, RU, DA) | EKRUCBL7 |
| | Simplified user interface | EKRUCBSB |
| | Room thermostat (wired) | EKRTWA |
| | Room thermostat (wireless) | EKRTR1 |
| | Heat meter (EHYHBH* only) | K.HEATMET |
| Drain | Drain pan for reversible H/B | EKHYDP1 |
| Installation | Cover plate 35 | EKHY093467 |
| | Installation jig | EKHYMNT1 |
| Sensor | External sensor | EKRTETS |
| Valve | Valve kit for connection to 3rd party tank with built-in thermotat | EKHY3PART2 |
| | Valve kit for connection to 3rd party tank with sensor pocket | EKHY3PART |
| Propane set | Propane set | EKHY075787 |

| | Type | Material name |
|---|---|---|
| Flue gas connections | Adapter Flex-Fixed PP 100 | EKFGP6316 |
| | Adapter Flex-Fixed PP 130 | EKFGS0252 |
| | Chimney Connection 60/100 | EKFGP4678 |
| | Chimney Connection 60/100 | EKFGP4678 |
| | Chimney Connection 80/125 | EKFGP4828 |
| | Chimney Connection 60/10 Air Intake Dn. 80 C83 | EKFGV1101 |
| | Chimney Top PP 100 incl. Flue Pipe | EKFGP5497 |
| | Chimney Top PP 130 incl. Flue Pipe | EKFGP5197 |
| | Concentric connection Ø 80/125 | EKHY090717 |
| | Connector Flex-Flex PP 100 | EKFGP6325 |
| | Connector Flex-Flex PP 130 | EKFGP6366 |
| | Connector Flex-Flex PP 80 | EKFGP6324 |
| | Connection set 60/10-60 Flue/Air intake Dn. 80 C53 | EKFGV1102 |
| | Eccentric connnection Ø 80 | EKHY090707 |
| | Eccentric connnection Ø 80 | EKHY090707 |
| | Elbow PP/ALU 80/125 90° | EKFGP4810 |
| | Elbow PP/GLV 60/100 30° | EKFGP4664 |
| | Elbow PP/GLV 60/100 45° | EKFGP4661 |
| | Elbow PP/GLV 60/100 90° | EKFGP4660 |
| | Elbow PP/GLV 80/125 30° | EKFGP4814 |
| | Elbow PP MB-AIR 80 90° | EKFGW4085 |
| | Elbow PP BM-AIR 80 45° | EKFGW4086 |
| | Extension Flex PP 100 L=10 M | EKFGP6346 |
| | Extension Flex PP 100 L=15 M | EKFGP6349 |
| | Extension Flex PP 100 L=25 M | EKFGP6347 |
| | Extension Flex PP 130 L=30 M | EKFGS0250 |
| | Extension Flex PP 80 L=10 M | EKFGP6340 |
| | Extension Flex PP 80 L=15 M | EKFGP6344 |
| | Extension Flex PP 80 L=25 M | EKFGP6341 |
| | Extension Flex PP 80 L=50 M | EKFGP6342 |
| | Extension PP 60x500 | EKFGP5461 |
| | Extension PP/GLV 60/100 x 1000mm | EKFGP4652 |
| | Extension PP/GLV 60/100 x 500mm | EKFGP4651 |
| | Extension PP/GLV 80/125 x 10000mm | EKFGP4802 |
| | Extension PP/GLV 80/125 x 500mm | EKFGP4801 |
| | Extension P BM-Air 80x500 | EKFGW4001 |
| | Extension P BM-Air 80x1000 | EKFGW4002 |
| | Extension P BM-Air 80x2000 | EKFGW4004 |
| | Filling loop set | EKFL1AA |
| | Flex 100-60 + Support Elbow | EKFGP6354 |
| | Flex 130-60 + Support Elbow | EKFGS0257 |
| | Flex Kit PP Dn.60-80 | EKFGP1856 |
| | Flex Kit PP Dn.8 | EKFGP2520 |
| | Flue Deflector 60 (UK Only) | EKFGP1295 |
| | Flue gas non-return flap | EKFGF1A |
| | Gas conversion kit from G20 to G25 | EKPS076227 |
| | Inspection Elbow Plus PP/ALU 80/125 90° EPDM | EKFGP4820 |
| | Meas. Tee with Inspection Panel PP/GLV 60/100 | EKFGP4667 |
| | Plume Managment Kit 60 (UK Only) | EKFGP1294 |
| | PMK Elbow 60 45° (2 pcs) (UK Only) | EKFGP1285 |
| | PMK Elbow 60 90 (UK Only) | EKFGP1284 |
| | PMK Extension 60 L=1000 incl. breaket (UK Only) | EKFGP1286 |
| | Roof Terminal PP/GLV 60/100 AR460 | EKFGP6837 |
| | Roof Terminal PP/GLV 80/125 AR300 Ral-9011 | EKFGP6864 |
| | Spacer PP 80-100 | EKFGP6333 |
| | Support Breaket Top Inox Dn.100 | EKFGP6337 |
| | Support Breaket Top Inox Dn.130 | EKFGP6353 |
| | Tee Flex 100 Boiler Connectionset 1 | EKFGP6368 |
| | Tee Flex 130 Boiler Connectionset 1 | EKFGP6215 |
| | Thermistor recirculator | EK TH2 |
| | Wall Bracket Dn.100 | EKFGP4481 |
| | Wall Bracket Dn.100 | EKFGP4631 |
| | Wall Terminal Kit low profile PP/GLV 60/100 | EKFGP1293 |
| | Wall Terminal Kit low profile PP/GLV 60/100 | EKFGP297 7 |
| | Wall Terminal Kit PP/GLV 60/100 | EKFGP2978 |
| | Wall Terminal Kit PP/GLV 60/100 | EKFGP1292 |
| | Wall Terminal Kit PP/GLV 80/125 | EKFGW6359 |
| | Wall Terminal Kit low profile PP/GLV 60/100 (UK only) | EKFGP1299 |
| | Weather Slate Flat Alu 60/100 | EKFGP6940 |
| | Weather Slate Flat Alu 60/100 0°-15° | EKFGP1296 |
| | Weather Slate Flat Alu 80/125 | EKFGW5333 |
| | Weather Slate Flat Alu 80/125 0°-15° | EKFGP1297 |
| | Weather Slate Steep Pb/GLV 60/100 18°-22° | EKFGS0518 |
| | Weather Slate Steep Pb/GLV 60/100 23°-27° | EKFGS0519 |
| | Weather Slate Steep Pb/GLV 60/100 43°-47° | EKFGS0523 |
| | Weather Slate Steep Pb/GLV 60/100 48°-52° | EKFGS0524 |
| | Weather Slate Steep Pb/GLV 60/100 53°-57° | EKFGS0525 |
| | Weather Slate Steep Pb/GLV 80/125 18°-22° | EKFGT6300 |
| | Weather Slate Steep Pb/GLV 80/125 23°-27° | EKFGT6301 |
| | Weather Slate Steep Pb/GLV 80/125 43°-47° | EKFGT6305 |
| | Weather Slate Steep Pb/GLV 80/125 48°-52° | EKFGT6306 |
| | Weather Slate Steep Pb/GLV 80/125 53°-57° | EKFGT6307 |
| | Weather Slate Steep PF 60/100 25°-45° | EKFGP7910 |
| | Weather Slate Steep PF 80/125 25°-45° Ral-9011 | EKFGP7909 |

# Daikin Altherma ground source heat pump

## Why choose a Daikin Altherma ground source heat pump

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

728mm x 600mm x 1800mm

### Comfort

Simple solution for installers

#### Quick and easy installation

› Full integration of the heat pump module and factory-fitted domestic hot water tank reduces installation time
› Pipework connections are placed on the top of the unit for accessibility
› Lightweight unit is easy to transport and install

#### Compact design

› No larger than an average household appliance, the unit's sleek design fits neatly in any standard room
› Requires only 10 mm of side clearance

# Energy efficiency

Powered by **80% renewable energy** extracted from the ground and 20% electricity, our Daikin Altherma ground source heat pump provides heating and hot water with **A++ energy efficiency**.

## Equipped with our signature inverter technology

Our Daikin inverter efficiently controls the unit's motor speed and reduces energy consumption by up to 30%. Rather than expending additional energy by starting and stopping, the inverter adjusts the speed of the motor so that it runs continuously and more efficiently in the long run.

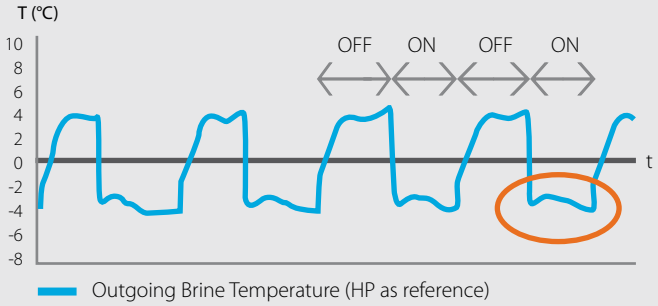
› Increases brine temperatures during partial load operation
› Reduces backup heater operation to a minimum
› Reaches high operating efficiencies during partial load operation

## Case study

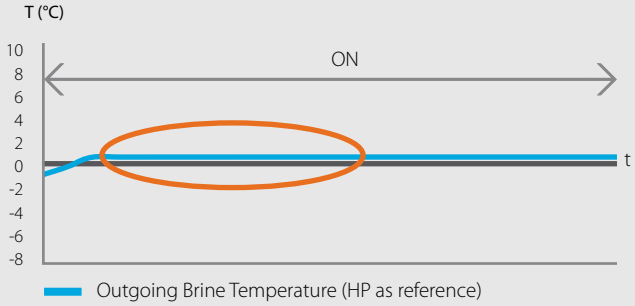
**Typical application:**

- Location: Sweden
- Design temperature: -17°C
- Heat load: 13kW
- Heating off temperature: 16°C

Operation ON/OFF unit
Partial load condition - ON/OFF




Operation Daikin unit
Partial load condition - Inverter controlled




# Reliability

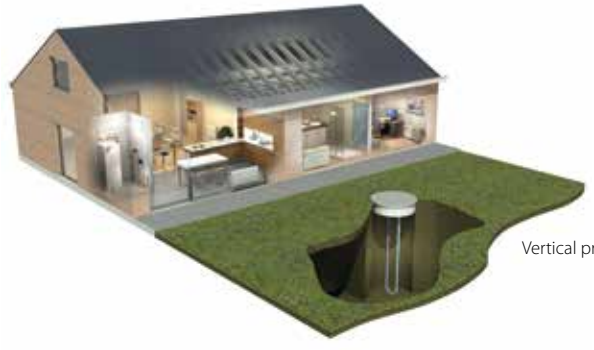
## For new homes and large-scale renovations

By extracting energy from below the Earth's surface, ground source heat pumps are extremely reliable, even in the coldest climates. Ground temperatures remain fairly stable throughout the year, making it an ideal renewable energy source.

## Reliable climate control

Ground source heat pumps horizontally and vertically extract renewable energy from the heat in the ground. The installation requires land area, but significantly reduces your carbon footprint and helps you save on energy costs in the long run.


Horizontal probe


Vertical probe

## Case study

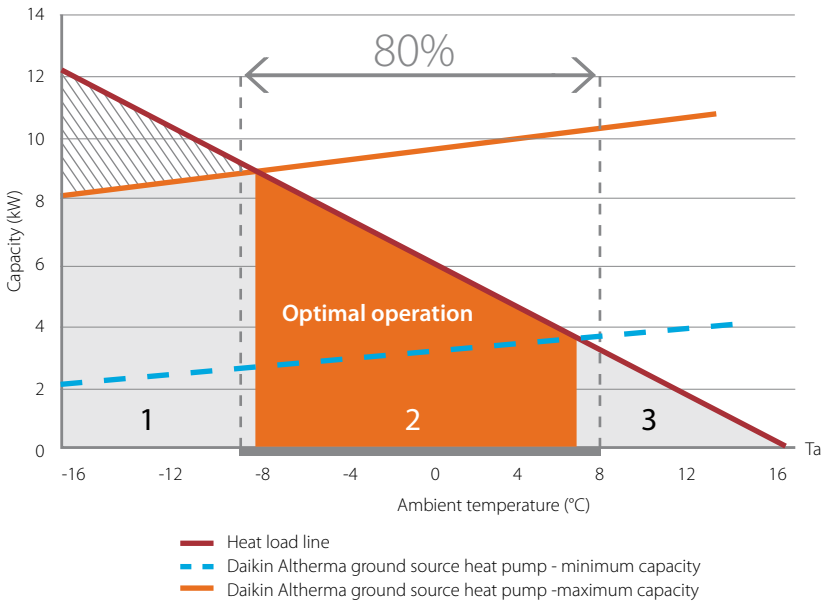
**Typical Nordic climate application with standard heat load:**

- Location: Sweden
- Design temperature: -17°C
- Heat load: 12 kW

1 **Full load operation with additional electric assistance** (if required)
The heat load is higher than the maximum heating capacity

2 **Partial load operation**
The heat load is lower than the maximum heating capacity and higher than the minimum heating capacity
This is the optimal operation zone

3 **On/Off operation**
The heat load is below the minimum heating capacity and the unit will go into on/off mode to deliver the required capacity




In a Nordic climate, around 80% of the required heat output must be delivered in an ambient temperature range between -9°C and 8°C (indicated by the orange zone on the graph). To deliver a high seasonal Coefficient of Performance (COP), it is crucial to have high operating efficiencies for this ambient temperature range because a majority of the required heat must be delivered within this range.

The Daikin Altherma ground source heat pump almost completely covers the relevant ambient temperature range during partial load operation, which is the optimal operational zone of the unit. This is a major benefit when compared to traditional on/off compressors.

# Daikin Altherma ground source heat pump

## EGSQH-A9W

EGSQH-A9W

| Indoor Unit | | | | EGSQH |
|---|---|---|---|---|
| Space heating | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) % | 144 |
| | | | Seasonal space heating eff. class | A++ |
| | Average climate water outlet 35°C | General | ηs (Seasonal space heating efficiency) % | 202 |
| | | | Seasonal space heating eff. class | A++ |
| Domestic hot water heating | General | Declared load profile | | L |
| | Average climate | ηwh (water heating efficiency) % | | 93.1 |
| | | Water heating energy efficiency class | | A |
| Heating capacity | Min. | | kW | 3.11 (1) / 2.47 (2) |
| | Nom. | | kW | 10.2 (1) / 9.29 (2) |
| | Max. | | kW | 13.0 (1) / 11.9 (2) |
| Power input | Nom. | | kW | 2.34 (1) / 2.82 (2) |
| COP | | | | 4.35 (1) / 3.29 (2) |
| Casing | Colour | | | White |
| | Material | | | Precoated sheet metal |
| Dimensions | Unit | Height/Width/Depth | mm | 1,732/600/728 |
| Weight | Unit | | kg | 210 |
| Tank | Water volume | | l | 180 |
| | Insulation | Heat loss | kWh/24h | 1.36 |
| | Corrosion protection | | | Anode |
| Operation range | Domestic hot water | Water side | | - |
| Refrigerant | Type | | | R-410A |
| | GWP | | | 2,087.5 |
| | Charge | | $TCO_2eq$ | 3.76 |
| | | | kg | 1.80 |
| | Control | | | Electronic expansion valve |
| Sound power level | Nom. | | dBA | 46.0 |
| Sound pressure level | Nom. | | dBA | 32.0 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | 9W/3~/50/400 |
| Current | Recommended fuses | | A | 25 |

(1) EWB/LWB 0°C/-3°C - LWC 35°C (DT=5°C) (2) EWB/LWB 0°C/-3°C - LWC 45°C (DT=5°C) (3) Contains fluorinated greenhouse gases

# Options

| | Type | Material name |
|---|---|---|
| Controls | LAN adapter | BRP069A62 |
| | LAN adapter + PV solar connection | BRP069A61 |
| | Remote user interface (DE, FR, NL, IT) | EKRUCBL1 |
| | Remote user interface (EN, ES, EL, PT) | EKRUCBL3 |
| | Remote user interface (EN, SV, NO, FI) | EKRUCBL2 |
| | Remote user interface (EN, TR, PL, RO) | EKRUCBL4 |
| | Remote user interface (DE, CS, SL, SK) | EKRUCBL5 |
| | Remote user interface (EN, HR, HU, BG) | EKRUCBL6 |
| | Remote user interface (EN, DE, RU, DA) | EKRUCBL7 |
| | Simplified user interface | EKRUCBSB |
| | Room thermostat (wired) | EKRTWA |
| | Room thermostat (wireless) | EKRTR1 |
| Adapter | Demand PCB | EKRP1AHTA |
| | Digital I/O PCB | EKRP1HBAA |
| Installation | Wire harness | EKGSCONBP1 |
| Sensor | Remote indoor sensor | KRCS01-1B |
| | External sensor | EKRTETS |
| Valve | Valve kit | EKVK1A/2A/3A |
| Others | PC cable | EKPCCAB1 |
| | Ground source filling kit | KGSFILL |

# Domestic hot water heat pump

## Why choose a domestic hot water heat pump

**The domestic hot water heat pump is the ideal replacement for an electric domestic hot water tank to provide semi-instantaneous hot water.**

### Comfort

#### Fresh water principle:

› Domestic hot water production on demand means fresh water at all times
› Minimum volume of stored domestic hot water prevents the risk of contamination and sedimentation

#### Easy installation

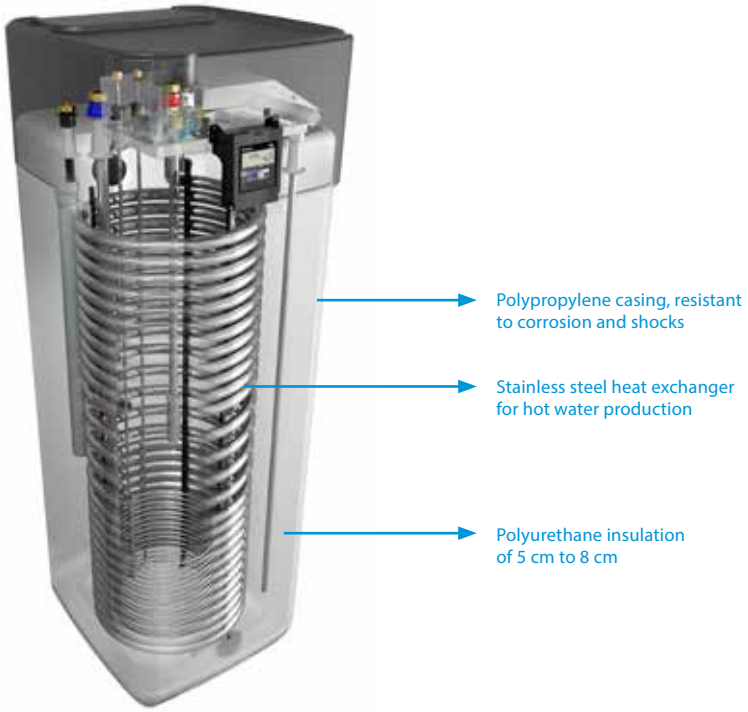
› No water tank pressure and limited pressure in the heat exchanger
› Low maintenance: no anode means no scale and lime deposits or corrosion
› Compact and designed with additional controls for easy installation and maintenance

### Reliability

› Electrical backup (2.5 kW) ensures hot water under all circumstances; the 500l tank can also be equipped with an external hydraulic backup
› The $ECH_2O$ thermal store is engineered to provide you with fresh, healthy and safe hot water
› By just using the heat pump, the temperature of the water can reach up to 55°C and its production is guaranteed down to -15°C

### Energy efficiency

› Heat pump extracts renewable energy from the outside air to produce hot water
› Increase energy saving and efficiency by connecting the unit to solar panels



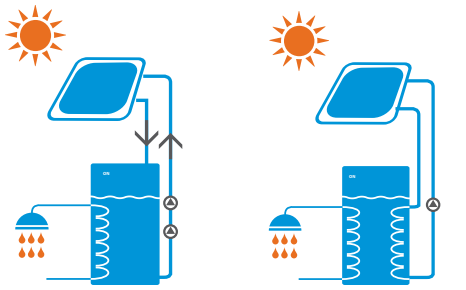
## ECH$_2$O thermal store: additional hot water comfort

Combine your monobloc with a thermal store to achieve the ultimate comfort at home.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

**For more info, see p. 90**



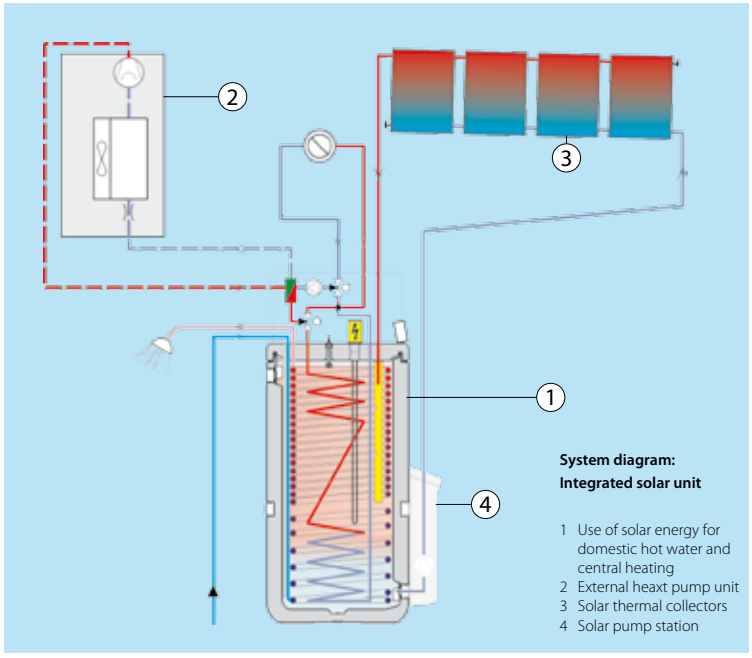
Drain-back solar system | Pressurised solar system

**Pressureless (drain-back) solar system**

- The solar collectors are only filled with water when sufficient heating is provided by the sun
- The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- After filling, water circulation is maintained by the remaining pump

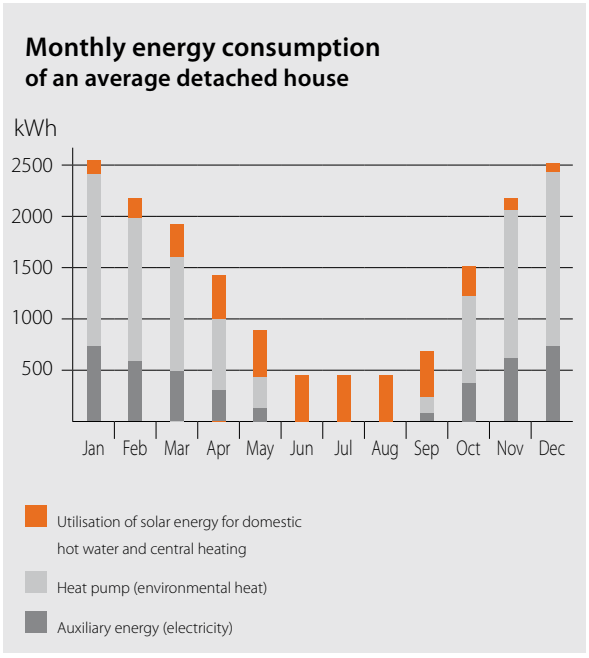
**Pressurised solar system**

- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed




**System diagram: Integrated solar unit**

1 Use of solar energy for domestic hot water and central heating
2 External heaxt pump unit
3 Solar thermal collectors
4 Solar pump station



# Domestic hot water heat pump

## EKHHP-A2V3 + ERWQ-AV3


EKHHP300A2V3


ERWQ-AV3


EKSRPS3

| Efficiency data | | | | EKHHP + ERWQ | 300A2V3 + 02AV3 | 500A2V3 + 02AV3 |
|---|---|---|---|---|---|---|
| Domestic hot water heating | General | Declared load profile | | | L | XL |
| | Average climate | ηwh (water heating efficiency) | % | | 119 | 123 |
| | | Water heating energy efficiency class | | | A | |
| Power input | Domestic hot water | Min. | kW | | 0.004 | |
| | | Max. | kW | | 0.03 | |
| COP | | | | | 4.30 (1) | |

| Indoor Unit | | | | EKHHP | 300A2V3 | 500A2V3 |
|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | |
| Dimensions | Unit | HeightxWidthxDepth | mm | | 1,750x615x615 | 1,750x790x790 |
| Weight | Unit | | kg | | 70 | 80 |
| Tank | Water volume | | l | | 294 | 477 |
| | Maximum water temperature | | °C | | 85 | |
| | Maximum water pressure | | bar | | 0 | |
| Operation range | Domestic hot water | Ambient Min.~Max. | °CDB | | 2~35 | |
| | | Water side Min.~Max. | °C | | 5~55 | |
| Refrigerant | Type | | | | R-410A | |
| | Charge | | $TCO_2eq$ | | - | |
| | GWP | | | | - | |
| Sound power level | Nom. | | dBA | | 0 | |
| Sound pressure level | Nom. | | dBA | | 0 | |

| Outdoor Unit | | | | ERWQ | 02AV3 |
|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | | 550x765x285 |
| Weight | Unit | | kg | | 35 |
| Compressor | Quantity | | | | 1 |
| | Type | | | | Hermetically sealed swing compressor |
| Operation range | Domestic hot water | Min.~Max. | °CDB | | -15~35 |
| Refrigerant | Type | | | | R-410A |
| | GWP | | | | 2,087.5 |
| | Charge | | $TCO_2eq$ | | 2.2 |
| | | | kg | | 1.05 |
| | Control | | | | - |
| Sound pressure level | Heating | Nom. | dBA | | 47 |
| | Cooling | Nom. | dBA | | 47 |
| Power supply | Name/Phase/Frequency/Voltage | | Hz/V | | V3/1~/50/230 |

(1) at 7°C ambient temperature (2) Contains fluorinated greenhouse gases


POLO

# Daikin Altherma Flex Type

## Why choose a Daikin Altherma Flex Type

**Daikin Altherma Flex Type combines heating, hot water and cooling into one centralised system, making it the ideal solution for large apartment buildings or commercial spaces.**

### Comfort

#### Heating and cooling

› Equipped with air-to-water heat pump technology to extract the outdoor air for energy
› Uses an efficient heat recovery system: heat absorbed while cooling one area can be recovered and used for hot water production or heating in another area

#### Hot water

› Best system to meet high demands for hot water
› Using renewable energy from the heat pump and recovered heat from the cooling operation, the system can heat the hot water tank up to 75°C without using an electric heater

### Energy efficiency

› High energy efficiency achieves high sustainability and low operation costs
› Inverter compressor continuously adjusts the compressor speed to meet actual demand. Fewer power-consuming starts and stops result in decreased energy consumption (up to 30%) and more stable temperatures
› To further increase the efficiency, an RTD-W per indoor unit and a sequencing controller for the full system can be installed to monitor the exact demand

### Reliability

#### Heat emitters

With a wide temperature range (up to 80°C) and able to work at multiple set points, our heat emitters can operate at different water temperatures.

#### Modular system

One or more outdoor units can be connected to several indoor units (maximum 10 indoor units per outdoor unit)

# Daikin Altherma Flex Type

EKHVM(R/Y)D-AB

## EKHVM(R/Y)D-AB

| Indoor Unit | | | | | EKHVMRD/EKHVMYD | 50AB | 80AB | 50AB | 80AB |
|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | | Metallic grey | | | |
| | Material | | | | | Precoated sheet metal | | | |
| Dimensions | Unit | HeightxWidthxDepth | | | mm | 705x600x695 | | | |
| Weight | Unit | | | | kg | 92 | | 120 | |
| Operation range | Heating | Ambient | Min.~Max. | | °C | -15~20 | | | |
| | | Water side | Min.~Max. | | °C | 25~80 | | | |
| | Cooling | Ambient | Min.~Max. | | °CDB | -~- | | 10~43 | |
| | | Water side | Min.~Max. | | °C | -~- | | 5~20 | |
| | Domestic hot water | Ambient | Min.~Max. | | °CDB | -15~35 | | | |
| | | Water side | Min.~Max. | | °C | 45~75 | | | |
| Refrigerant | Type | | | | | R-134a | | | |
| | Charge | | | | kg | 2.0 | | | |
| | | | | | $TCO_2eq$ | 2,68 | | | |
| | GWP | | | | | 1430 | | | |
| Sound pressure level | Nom. | | | | dBA | 40 / 43 / 0 / 0 | 42 / 43 / 0 / 0 | 40 / 43 / 0 / 0 | 42 / 43 / 0 / 0 |
| | Night quiet mode | Level 1 | | | dBA | 38 / 0 / 0 | | | |

EKHBRD-ADV1/Y1

# Daikin Altherma Flex Type

## EKHBRD-ADV1/Y1

| Indoor Unit | | | | | EKHBRD | 011ADV1 | 014ADV1 | 016ADV1 | 011ADY1 | 014ADY1 | 016ADY1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | | Metallic grey | | | | | |
| | Material | | | | | Precoated sheet metal | | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | | mm | 705x600x695 | | | | | |
| Weight | Unit | | | | kg | 144 | | | 147 | | |
| Operation range | Heating | Ambient | Min.~Max. | | °C | -20.0 / 0.00~20 | | | | | |
| | | Water side | Min.~Max. | | °C | 25~80.0 | | | | | |
| | Domestic hot water | Ambient | Min.~Max. | | °CDB | -20.0~35.0 | | | | | |
| | | Water side | Min.~Max. | | °C | 25~80 | | | | | |
| Refrigerant | Type | | | | | R-134a | | | | | |
| | Charge | | | | kg | 2.60 | | | | | |
| | | | | | $TCO_2eq$ | 3.718 | | | | | |
| | GWP | | | | | 1,430 | | | | | |
| Sound pressure level | Nom. | | | | dBA | 43.0 / 46.0 / 0.00 / 0.00 | 45.0 / 46.0 / 0.00 / 0.00 | 46.0 / 46.0 / 0.00 / 0.00 | 43.0 / 46.0 / 0.00 / 0.00 | 45.0 / 46.0 / 0.00 / 0.00 | 46.0 / 46.0 / 0.00 / 0.00 |
| | Night quiet mode | Level 1 | | | dBA | 40 / 0 / 0 | 43 / 0 / 0 | 45 / 0 / 0 | 40 / 0 / 0 | 43 / 0 / 0 | 45 / 0 / 0 |

# Daikin Altherma Flex Type

## EMRQ-A

EMRQ-A

| Outdoor Unit | | | | | EMRQ | 8A | 10A | 12A | 14A | 16A |
|---|---|---|---|---|---|---|---|---|---|---|
| Heating capacity | Nom. | | | | kW | 22.4 (6) | 28 (6) | 33.6 (6) | 39.2 (6) | 44.8 (6) |
| Cooling capacity | Nom. | | | | kW | 20 (7) | 25 (7) | 30 (7) | 35 (7) | 40 (7) |
| Seasonal efficiency | Domestic hot water heating | General | Declared load profile | | | XL | | | | |
| | | Average climage | ηwh (water heating efficiency) | | % | 93 | | | 83.7 | 93 |
| | | | Water heating energy efficiency class | | | A | | | | |
| | Average climate water outlet 55°C | General | ηs (Seasonal space heating efficiency) | | % | 108 | 104 | 103 | 106 | 103 |
| | | | SCOP | | | 2.78 | 2.68 | 2.64 | 2.74 | 2.64 |
| | | | Seasonal space heating eff. Class | | | A+ | | | | |
| Casing | Colour | | | | | Daikin White | | | | |
| | Material | | | | | Painted galvanized steel plate | | | | |
| Dimensions | Unit | HeightxWidthxDepth | | | mm | 1,680x1,300x765 | | | | |
| Weight | Unit | | | | kg | 331 | | | 339 | |
| Operation range | Heating | Min. | | | °CWB | -15 | | | | |
| | | Max. | | | °CWB | 20 | | | | |
| | Domestic hot water | Ambient | Min.~Max. | | °CDB | -15~35 | | | | |
| | Cooling | Min. | | | °CDB | 10 | | | | |
| | | Max. | | | °CDB | 43 | | | | |
| Refrigerant | Type | | | | | R-410A | | | | |
| | GWP | | | | | 2,087.5 | | | | |
| | Charge | | | | kg | 10.3 | 10.6 | 10.8 | 11.1 | |
| | | | | | $TCO_2eq$ | 21.5 | 22.1 | 22.5 | 23.2 | |
| Piping connections | Liquid | OD | | | mm | 9.52 | | | 12.7 | |
| | Suction | OD | | | mm | 19.1 | 22.2 | | 28.6 | |
| | High and low pressure gas | OD | | | mm | 15.9 | 19.1 | | 22.2 | |
| | Piping length | OU - IU | Max. | | m | 100 | | | | |
| | | System | Equivalent | | m | 120 | | | | |
| | Total piping length | System | Actual | | m | 300 | | | | |
| Sound power level | Heating | Nom. | | | dBA | 78 | | 80 | 83 | 84 |
| Sound pressure level | Heating | Nom. | | | dBA | 58 | | 60 | 62 | 63 |
| Power supply | Phase/Voltage | | | | V | 3~/380-415 | | | | |
| Current | Recommended fuses | | | | A | 20 | 25 | | 40 | |

(1) 100% connection ratio of EMRQ8A / 4x EKHVMYD50AB / 4x EKHTS260AC (2) 100% connection ratio of EMRQ10A / 2x EKHBRD014AD / 2x EKHTS260AC
(3) 100% connection ratio of EMRQ12A / 2x EKHBRD016AD / 2x EKHTS260AC (4) 100% connection ratio of EMRQ14A / 7x EKHVMYD50AB / 7x EKHTS260AC
(5) 100% connection ratio of EMRQ16A / 4x EKHBRD016AD / 4x EKHTS260AC (6) Condition: Ta=7°CDB/6°CWB, 100% connection ratio
(7) Condition: Ta=35°CDB, 100% connection ratio (8) Contains fluorinated greenhouse gases

# Options

| Type | | Material name | Daikin Altherma Flex Type | |
|---|---|---|---|---|
| | | | outdoor | indoor |
| Controls | Remote user interface | EKRUAHTB | | • |
| | Room thermostat (wired) | EKRTWA | • | • |
| | Room thermostat (wireless) | EKRTR1 | • | • |
| | Standard protocol interface for HT and Flex Type | RTD-W | | • |
| | Individual billing - connection kit | EKMBIL1 | | • |
| Adapter | Demand PCB | EKRP1AHTA | | • |
| | Digital I/O PCB | EKRP1HBAA | | • |
| Back-up heater | Back-up heater for HT 1~ | EKBUHAA6V3 | | • |
| | Back-up heater for HT 3~ | EKBUHAA6W1 | | • |
| Drain | Central drain pan kit | KWC25C450 | • | |
| Installation | Stand alone kit | EKFMAHTB | | • |
| Refnet | Refnet header | KHRQ(M)23M29H8 | • | |
| | Refnet header | KHRQ(M)23M64H8 | • | |
| | Refnet joint | KHRQ(M)23M20T8 | • | |
| | Refnet joint | KHRQ(M)23M29T8 | • | |
| | Refnet joint | KHRQ(M)23M64T8 | • | |
| Sensor | External sensor | EKRTETS | | • |

# Gas condensing boilers

## Why choose a gas condensing boiler

**Daikin's gas condensing boilers are the best option for individual that plan to replace an existing boiler with a more energy efficient and cost-saving alternative. Both the GCU ECH$_2$O and Wall Mounted Boiler provide end users with reliable performance and efficient heating and hot water.**

### Comfort

Daikin's gas condensing boilers deliver the ultimate in comfort. Optimal heating ensures seamless operation to deliver reliable year-round heating, even in extreme weather conditions. Instant hot water is possible with our combi range, but also possible with a separate thermal store featuring the ECH$_2$0 tank.

### Energy efficiency

#### Condensing technology

Using latent heat in the flue gas, our condensing technology achieves 107% more energy efficiency by using renewable energy to produce hot water.

#### Condensing technology

Premix Technology incorporates a modulation fan to perfectly combine combustion air and fuel before it reaches the burner (air/gas mixer), to ensure a high efficiency combustion.

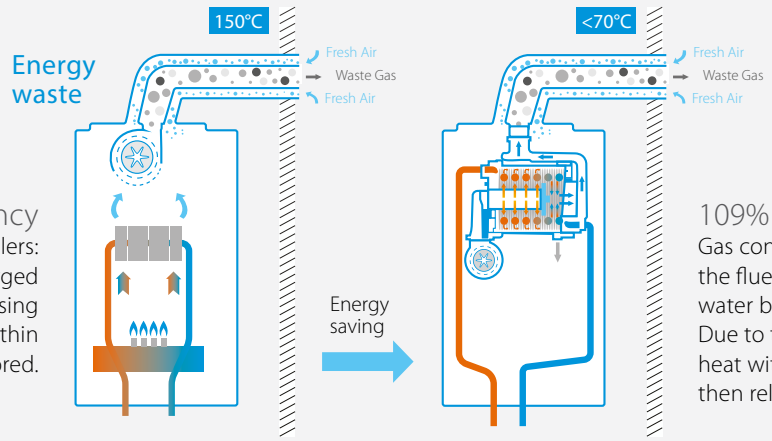
With the combustion of 1 m3 natural gas, 1.7 kg of water vapour is released in the flue gas as latent heat. Instead of being disposed through the flue, the water vapour containing latent heat is then recirculated, and subsequently reheated by a uniquely designed exchanger.

Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NOW and CO, to ensure high cost savings and environmentally-friendly operation.

## Reliability

### Easy installation and service

All parts are accessible from the front and are low maintenance due to the gas-adaptive combustion system Lambda Gx, a fully electronic gas-air combination. The Lambda Gx is compatible with wall mounted and floor standing units.




93% Efficiency

Conventional combi boilers: Water vapour is discharged through the flue in vaporising phase and latent heat within the water vapour is ignored.

109% Efficiency

Gas condensing combi boilers: the flue gas collides with influent water before being discharged. Due to this occurrence, latent heat within the water vapour is then released.

# Gas condensing boiler

## Supremely compact and controllable via app

Daikin's **NEW** gas condensing boiler

## Why choose the Daikin gas condensing boiler

### Low weight

27 kg

### Connectivity/Cloud Service

Always in control, no matter where you are

### Easy installation and service

All parts are accessible from the front. The gas-adaptive combustion system (Lambda Gx) means lower maintenance and installation time. The Lambda Gx is compatible with wall mounted and floor standing units.

### Solar thermal connection

Usable in combination with
solar thermal store (renewable energy)
Combi boiler: solar preheating
Heating only boiler: solar controller input

### Most compact

12, 18, 24 kW: 400 x 255 x 580 mm
28, 35 kW: 450 x 288 x 666 mm

### Flexible in use

Thanks to IPX5D standard and its compact dimensions, it's possible to install in nearly all room conditions, such as kitchen cupboards, bathroom, utility room, heating room, balcony (in-wall kit)

### Modulation 1:8

Capacity adapts to required heat of 4 to 28 kW and 5 to 35 kW

### Daikin eye

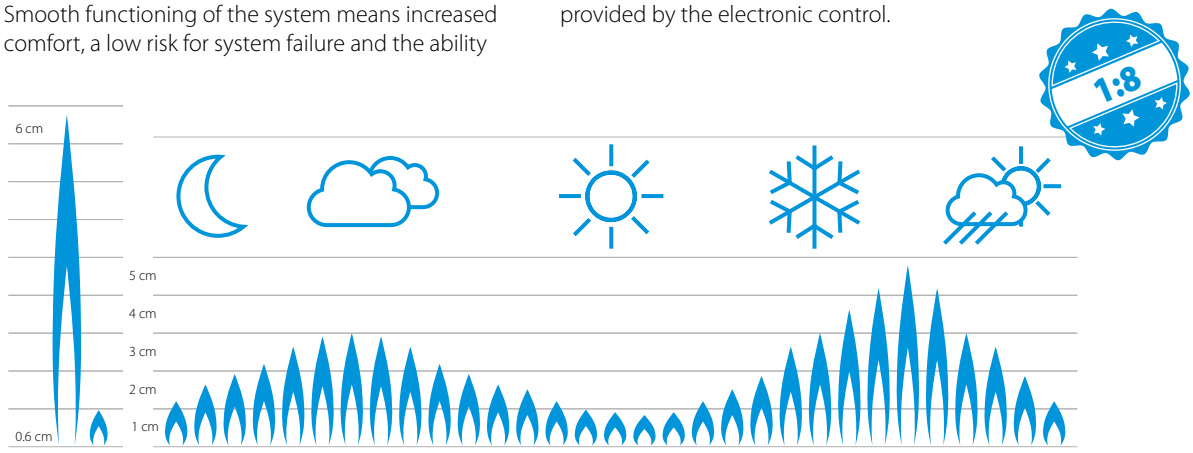
Monitor the operating status of your combi boiler with the Daikin Eye

### Unique interface

› Stylish interface appeals to all end-users
› State-of-the-art technology meets user-friendly design
› The side details and convex front panel deliver an integrated view

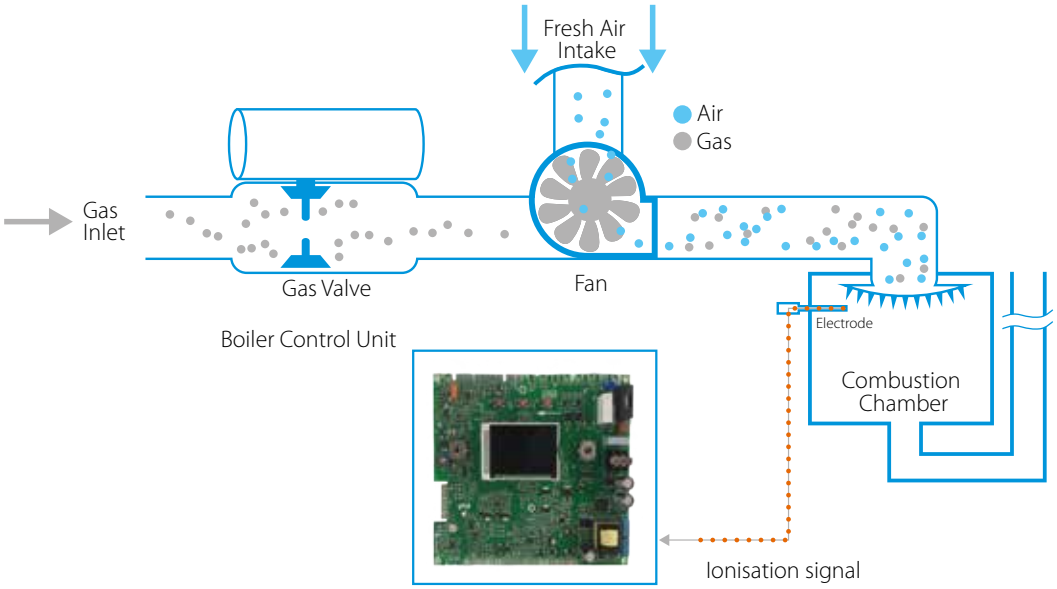
## High modulation rate

The opportunity to adjust the burner power ensures the seamless and continuous operation of the device. Smooth functioning of the system means increased comfort, a low risk for system failure and the ability to neutralise harmful substance emissions that may occur during ignition. Modulation is also automatically provided by the electronic control.



# Lambda Gx: automatic gas adaptation system

**With the Lambda GX, the correct combination of air and gas is regulated to achieve efficient combustion, which leads to higher cost savings and less installation and adjustment effort.**




# Product features

## High efficiency pump with frequency control
There is a circulation pump to distribute water through the heating installation

## Flue Adapter 60/100
› Factory mounted
› Compatible with top adapters/elbows of different flue gas manufacturers

## Heat Exchanger
› Daikin design
› Material: Aluminium
› Modulation: 12-18-24 kW (1:4 - 1:6 - 1:8) and 28-35 kW (1:4 - 1:7)

## Expansion Vessel
› Integrated 8 litre

## Gas Valve
› Less maintenance needed
› Automatic gas adaptive system

## Plate Heat Exchanger
Increased number of plates to provide faster hot water production at high efficiency including warm start function.

## Pump & Return Hydroblock
Includes filter and flow restrictor
Air vent, drain tap and Internal bypass
Low energy pump

## Fan
Wider modulation range
Low noise revolution ~ 50 dB(A)

## Silence
**Sound power level: 49 db(A)**
The sound level is equivalent to hearing a dishwasher operating in an adjoining room

**Sound pressure: 39 db(A)**
When standing 1m from the device, the sound level is equivalent to the silence of a library

Complies with Directive EU/TR ERP LOT11.


D2CND/D2TND-A1/4A

# Gas condensing boiler

## D2CND/D2TND-A1/4A

| Indoor Unit | | | D2CND/D2TND | 024A0AIT/1A/4A | 028A1/4A | 035A1/4A | 012A4A | 018A4A | 024A4A | 028A4A | 035A4A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gas | Connection | Diameter | inch | 3/4" Male Threat | | | 3/4" Male Threat | | | | |
| Gas | Gas Consumption (G20) | | $m^3/h$ | 2.48 | 3.01 | 3.77 | 1.23 | 1.85 | 2.48 | 3.01 | 3.77 |
| | Gas Consumption (G25) | | $m^3/h$ | 2.89 | 3.42 | 4.28 | 1.44 | 2.15 | 2.89 | 3.42 | 4.28 |
| | Gas Consumption (G31) | | $m^3/h$ | 0.96 | 1.15 | 1.44 | 0.48 | 0.71 | 0.96 | 1.15 | 1.44 |
| Central heating | Nom. input rating (lower value) | | kW | 2.9 - 23.5 | 3.8 - 27.1 | 4.7 - 34 | 2.9 - 11.7 | 2.9 - 17.5 | 2.9 - 23.5 | 3.8 - 27.1 | 4.7 - 34 |
| | Nom. input rating (upper value) | | kW | 3.2 - 26.1 | 4.2 - 30 | 5.2 - 37.7 | 3.2 - 13.0 | 3.2 - 19.4 | 3.2 - 26.1 | 4.2 - 30 | 5.2 - 37.7 |
| | Output at 80/60°C Min - Nom | | kW | 2.8 - 22.8 | 3.6 - 26 | 4.46 - 32.6 | 2.8 - 11.4 | 2.8 -17.0 | 2.8 - 22.8 | 3.6 - 26 | 4.46 - 32.6 |
| | Output at 50/30°C Min - Nom | | kW | 3.1 - 24.0 | 4 - 28 | 5 - 35 | 3.1 - 12 | 3.1 - 18.0 | 3.1 - 24.0 | 4 - 28 | 5 - 35 |
| | Min. Output at 30/40 | | kW | 3.2 | 4.1 | 5.0 | 3.2 | 3.2 | 3.2 | 4.1 | 5.0 |
| | Efficiency | | % | 108.7% | 108.0% | 108% | 108.7% | 108.7% | 108.7% | 108% | 108% |
| | Max. CH water pressure | | bar | 3 | | | 3 | | | | |
| | Max. CH water temperature | | °C | 80 | | | 80 | | | | |
| Domestic hot water | Nom. input rating (lower value) | | kW | 2.9 - 23.5 | 3.8 - 27.1 | 4.7 - 34 | 2.9 - 11.7 | 2.9 - 17.5 | 2.9 - 23.5 | 3.8 - 27.1 | 4.7 - 34 |
| | Nom. input rating (upper value) | | kW | 3.2 - 26.1 | 4.2 - 30 | 5.2 - 37.7 | 3.2 - 13.0 | 3.2 - 19.4 | 3.2 - 26.1 | 4.2 - 30 | 5.2 - 37.7 |
| | Nom. output | | kW | 2.8 - 22.8 | 3.6 - 26 | 4.46 - 32.6 | 2.8 - 11.4 | 2.8 -17.0 | 2.8 - 22.8 | 3.6 - 26 | 4.46 - 32.6 |
| | Domestic hot water threshold | | l/min | 2 | 2.0 | 2.0 | N/A | N/A | N/A | N/A | N/A |
| | DHW Flow Rate at deltaT 30 K | | l/min | 10 | 12 | 14 | N/A | N/A | N/A | N/A | N/A |
| | DHW temperature (factory setting) | | °C | 60 | | | 60 | | | | |
| Flue gas connection / combustion air connection | | Concentric connection | mm | 60/100 | | | 60/100 | | | | |
| Casing | Colour | | | Titanium white (RAL 9003) | | | Titanium white (RAL 9003) | | | | |
| | Material | | | electrostatic powder coated sheet metal | | | electrostatic powder coated sheet metal | | | | |
| Dimensions | Unit | HeightxWidthxDepth | mm | 400x255x580 | 450x288x666 | | 400x255x580 | | | 450x288x666 | |
| Weight | Unit | | kg | 27.5 | 36 | | 27.5 | | | 36 | |
| Power supply | Name/Phase/Frequency/ Voltage | | Hz/V | 1~/230/50 | | | 1~/230/50 | | | | |
| Electrical power consumption | | Max. | W | 87 | | | 87 | | | | |
| | | Standby | W | 3.5 | | | 3.5 | | | | |

*Note: blue cells contain preliminary data

# Options

| Category | Material Nr | Description |
|---|---|---|
| Controll | 150042 | Outdoor sensor |
| | ROTROOMTHEAA | Rotex OT+ room thermostat |
| | DOTROOMTHEAA | Daikin OT+ room thermostat |
| | 150045 | Solar Temperature Sensor |
| | DRGATEWAYAA | Communication gateway (LAN Adapter) |
| Flue gas | DRMEEA60100BA | Connector Elbow PP 60/100 + MP(0mm)* |
| | DRDECOP8080BA | Twin Box Adapter 80/80 + MP(0mm)* |
| | DRDECO80125BA | Vert. Conn. 60/100-80/125 + MP(0mm)* |
| Mechanical | DRCOVERPLATAA | Cover plate (12-18-24 kW) |
| | DRANTIFREEZAA | Antifreezing set |
| | DRINWALLKITAA | Inwall installation kit ** |
| | DRCOVERPLA2AA | Cover plate (28-35 kW) |
| Hydrolic | DRVALVEKIC1AA | Valve Kit C1 - 90° valves |
| | DRVALVEKIC2AA | Valve Kit C2 - 90° valves |
| | DRVALVEKIT1AA | Valve Kit T1 - 90° valves |
| | DRVALVEKIT2AA | Valve Kit T2 - 90° valves |
| Pump Groups & Others | 156021 | Seperator for mud and magnetit |
| | IT.DEFANG-TP | Seperator for mud and magnetit |
| | IT-DEFANG-OT | Seperator for mud and magnetit |
| | DRUPUMPGURPAA | Unmixed Pump Group |
| | DRMPUMPGURPAA | Mixed Pump Group |
| For Service | tbc | Service Box (12-18-24 kW) |
| | tbc | Service Box (28-35 kW) |

# Gas condensing boiler

EKOMB-AH incl. B-pack

EKOMBG-A

## EKOMB(G)-A(H)

| Indoor Unit | | | | | EKOMB/EKOMBG | 22AH | 28AH | 33AH | 22A | 28A | 33A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Central heating | Heat input Qn (net calorific value) | Nom | Min-Max | kW | | 5.6-18.7 | 7.1-23.7 | 7.2-27.3 | 5.5-23.3 | 7.2-29.1 | 7.5-32.7 |
| | Heat input Qn (gross calorific value) | Nom | Min-Max | kW | | 6.2-20.8 | 7.9-26.3 | 8.0-30.3 | 6.1-25.9 | 8.0-32.3 | 8.3-36.3 |
| | Output Pn at 80/60°C | Min-Nom | | kW | | --17.8 | --22.8 | 7.1-26.3 | 5.4-22.7 | 7.1-28.4 | 7.4-32.1 |
| | Output Pnc at 50/30°C | Min-Nom | | kW | | --- | | 7.8-27.1 | 5.9-23.8 | 7.7-31.1 | 8.2-35.0 |
| | Output at 40/30°C | Min | | kW | | - | | 7.7 | 5.9 | 7.7 | 8.2 |
| | Water pressure (PMS) | Max | | bar | | 3 | - | | | 3 | |
| | Water temperature | Max | | °C | | - | | | | 90 | |
| | Efficiency | Net calorific value | | % | | | | 107 | | | 109 |
| | Operation range | Min/Max | | °C | | | | -/- | | | |
| Domestic hot water | Heat input (net calorific value) Qnw | Nom | Min-Max | kW | | 5.6-22.1 | 7.1-28.0 | --- | 5.5-23.3 | 7.2-29.1 | 7.5-32.7 |
| | Heat input (gross calorific value) Qnw | Nom | Min-Max | kW | | 6.2-24.6 | 7.9-31.1 | --- | 6.1-25.9 | 8.0-32.3 | 8.3-36.3 |
| | Output | Min-Nom | | kW | | | --- | | 5.9-22.7 | 7.7-28.4 | 8.2-32.1 |
| | Domestic hot water threshold | | | l/min | | 1.5 | | - | | 1.5 | |
| | Water flow | Rate | Nom | l/min | | 10.0 (1) / 6.0 (2) | 12.5 (1) / 7.5 (2) | - | 10.0 (1) / 6.0 (2) | 12.5 (1) / 7.5 (2) | 15.0 (1) / 9.0 (2) |
| | Temperature | Factory setting | | °C | | | | 60 | | | |
| | Operation range | Min/Max | | °C | | | 40/65 | | | -/- | |
| Gas | Connection | Diameter | | mm | | | 15 | - | | 15 | |
| | Consumption (G20) | Min-Max | | $m^3/h$ | | 0.58-2.29 | 0.74-2.46 | --- | 0.57-2.42 | 0.75-3.02 | 0.78-3.39 |
| | Consumption (G25) | Min-Max | | $m^3/h$ | | | --- | | 0.66-2.80 | 0.86-3.50 | 0.80-3.93 |
| | Consumption (G31) | Min-Max | | $m^3/h$ | | 0.22-0.87 | --- | | 0.22-0.92 | 0.28-1.15 | 0.30-1.29 |
| Supply air | Connection | | | mm | | 100 | | - | | 100 | |
| | Concentric | | | | | | - | | | Yes | |
| Flue gas | Connection | | | mm | | 60 | - | | | 60 | |
| Space heating | General | ηs (Seasonal space heating efficiency) | | % | | | | 93 | | | 94 |
| | | Seasonal space heating eff. class | | | | | | A | | | |
| Domestic hot water heating | General | Declared load profile | | | | L | XL | | L | XL | |
| | | ηwh (water heating efficiency) | | % | | 84 | 87 | | 84 | 87 | - |
| | | Water heating energy efficiency class | | | | | | A | | | |
| Casing | Colour | | | | | White - RAL9010 | | - | White - RAL9010 | | |
| | Material | | | | | Precoated sheet metal | | - | Precoated sheet metal | | |
| Dimensions | Unit | HeightxWidthxDepth | | mm | | 590x450x240 | 650x450x240 | - | 590x450x240 | 650x450x240 | 710x450x240 |
| Weight | Unit | Empty | | kg | | 30 | 33 | - | 30 | 33 | 36 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | | | | 1~/50/230 | | | |
| Electrical power consumption | Max. | | | W | | | | 80 | | | |
| | Standby | | | W | | | | 2 | | | |

(1) Setpoint 40°C (2) Setpoint 60°C

## EHOBG-A/EHOB-A

| Indoor Unit | | | | | EHOBG/EHOB | 12A | 18A | 12AH | 18AH | 42AH |
|---|---|---|---|---|---|---|---|---|---|---|
| Central heating | Heat input Qn (net calorific value) | Nom | Min-Max | kW | | 3.5-12.5 | 5.6-18.7 | 3.5-11.8 | 5.6-18.7 | 7.8-42.5 |
| | Heat input Qn (gross calorific value) | Nom | Min-Max | kW | | 3.9-13.9 | 6.2-20.8 | 3.9-13.1 | 6.2-20.8 | --- |
| | Output Pn at 80/60°C | Min-Nom | | kW | | --12.2 | --17.8 | 3.4-11.5 | 5.4-17.8 | --40.9 |
| | Output Pnc at 50/30°C | Min-Nom | | kW | | --- | | 3.8-12.0 | 5.9-18.1 | 8.4-- |
| | Output at 40/30°C | Min | | kW | | - | | 3.8 | 6.0 | - |
| | Water pressure (PMS) | Max | | bar | | 3 | - | | 3 | |
| | Water temperature | Max | | °C | | 90 | - | | 90 | |
| | Efficiency | Net calorific value | | % | | | 109 | | 107 | |
| | Operation range | Min/Max | | °C | | | -/- | | | |
| Domestic hot water | Operation range | Min/Max | | °C | | | -/- | | | |
| Gas | Connection | Diameter | | mm | | | 15 | | | |
| | Consumption (G20) | Min-Max | | $m^3/h$ | | 0.36-1.30 | 0.58-1.94 | 0.36-1.22 | 0.58-1.94 | 0.81-4.41 |
| | Consumption (G25) | Min-Max | | $m^3/h$ | | 0.42-1.50 | 0.67-2.25 | 0.42-1.42 | 0.67-2.25 | 0.94-5.10 |
| | Consumption (G31) | Min-Max | | $m^3/h$ | | 0.14-0.49 | 0.22-0.74 | 0.14-0.47 | 0.22-0.74 | 0.31-1.68 |
| Supply air | Connection | | | mm | | 1.667 | - | 100 | | - |
| | Concentric | | | | | Yes | - | Yes | | - |
| Flue gas | Connection | | | mm | | - | | 60 | | - |
| Space heating | General | ηs (Seasonal space heating efficiency) | | % | | | | 93 | | 92 |
| | | Seasonal space heating eff. class | | | | | | A | | |
| Domestic hot water heating | General | Declared load profile | | | | | | - | | |
| | | ηwh (water heating efficiency) | | % | | | | - | | |
| | | Water heating energy efficiency class | | | | | | - | | |
| Casing | Colour | | | | | | | White - RAL9010 | | - |
| | Material | | | | | | | Precoated sheet metal | | - |
| Dimensions | Unit | HeightxCasingxIntegrated on indoor unitxWidth | | mm | | | | 590x-x450x240 | | - |
| Weight | Unit | Empty | | kg | | | | 28 | | - |
| Electrical power consumption | Max. | | | W | | | | 80 | | 135 |
| | Standby | | | W | | | | 2 | | |

*Note: blue cells contain preliminary data

# Options

| | Type | Material name | Condensing boilers | |
|---|---|---|---|---|
| | | | EKOMB* | D2CND/ D2TND |
| Controls | LAN adapter | BRP069A62 | | • |
| | LAN adapter + PV solar connection | BRP069A61 | | • |
| | Netatmo thermostat (FR, BE) | RTRNET1AA | • | • |
| | Netatmo thermostat (IT, DE, AT) | RTRNET2AA | • | • |
| | Netatmo thermostat (UK) | RTRNET3AA | • | • |
| | Netatmo thermostat (ES) | RTRNET4AA | • | • |
| | Rf-wlan converter | EKRFLAN1A | • | |
| | Room thermostat | DOTROOMTHEAA | | • |
| | Communication gateway | DRGATEWAYAA | | • |
| | Dongle set | EKDS1A | • | |
| Installation | Cover plate | DRCOVER-PLATAA | | • |
| | Cover plate 35 | EKCP1A | • | |
| | Metal housing for inwall installation kit | DRIN-WALLKITAA | | • |
| | Separator for mud and lodestone | 156021 | | • |
| | Separator for mud and lodestone | IT.DEFANG-TP | | • |
| | Separator for mud and lodestone | IT-DEFANG-OT | | • |
| | Solar water heater connection set | EKSH1A | • | |
| | Antifreezing set from -5°C to -15°C | DRANTI-FREEZAA | | • |
| Sensor | Outdoor sensor | EKOSK1A | • | |
| | Outdoor sensor | DROUTSEN-SORAA | | • |
| Valve | Valve kit (DE) | EKVK6A | • | |
| | Valve kit (IT, ES, CZ, GR, PL, PT) | EKVK4A | • | |
| | Valve kit 3-way | EK3WV1A | • | |
| | Valve kit C1 - 90° valves | DRVALEKIC1AA | | • |
| | Valve kit C2 - 90° valves | DRVALVEKI-C2AA | | • |
| | Valve kit T1 - 90° valves | DRVALVEKIT1AA | | • |
| | Valve kit T2 - 90° valves | DRVALVEKIT2AA | | • |
| Others | Unmixed pump group | DPUMPGROU-PAA | | • |
| B-pack | B-pack for combi 22 kW (DE) | EKFJS4A | • | |
| | B-pack for combi 22 kW (FR, BE) | EKFJS2A | • | |
| | B-pack for combi 22 kW (IT, ES, CZ, GR, PL, PT) | EKFJS1A | • | |
| | B-pack for combi 22 kW (UK) | EKFJS3A | • | |
| | B-pack for combi 28 kW (DE) | EKFJM4A | • | |
| | B-pack for combi 28 kW (FR, BE) | EKFJM2A | • | |
| | B-pack for combi 28 kW (IT, ES, CZ, GR, PL, PT) | EKFJM1A | • | |
| | B-pack for combi 28 kW (UK) | EKFJM3A | • | |
| | B-pack for combi 33 kW (DE) | EKFJL4A | • | |
| | B-pack for combi 33 kW (FR, BE) | EKFJL2A | • | |
| | B-pack for combi 33 kW (IT, ES, CZ, GR, PL, PT) | EKFJL1A | • | |
| | B-pack for combi 33 kW (UK) | EKFJL3A | • | |
| Propane set | Propane set | EKHY075787 | • | |
| | Propane set (EKOMB22*, EKOMBG28*)) | EKPS075867 | • | |
| | Propane set (EKOMBG22*) | EKPS075877 | • | |

| | Type | Material name | Condensing boilers | |
|---|---|---|---|---|
| | | | EKOMB* | D2CND/ D2TND |
| Flue gas connections | Adapter Flex-Fixed PP 100 | EKFGP6316 | • | • |
| | Adapter Flex-Fixed PP 130 | EKFGS0252 | • | • |
| | Adaptor set concentri 60/100 | EKAS1A | • | • |
| | Chimney Connection 60/100 | EKFGP4678 | • | • |
| | Chimney Connection 60/100 | EKFGP4678 | • | • |
| | Chimney Connection 80/125 | EKFGP4828 | • | • |
| | Chimney Connection 60/10 Air Intake Dn. 80 C83 | EKFGV1101 | • | • |
| | Chimney Top PP 100 incl. Flue Pipe | EKFGP5497 | • | • |
| | Chimney Top PP 130 incl. Flue Pipe | EKFGP5197 | • | • |
| | Concentric connection Ø 80/125 | EKHY090717 | • | • |
| | Connector Flex-Flex PP 100 | EKFGP6325 | • | • |
| | Connector Flex-Flex PP 130 | EKFGP6366 | • | • |
| | Connector Flex-Flex PP 80 | EKFGP6324 | • | • |
| | Connection set 60/10-60 Flue/Air intake Dn. 80 C53 | EKFGV1102 | • | • |
| | Eccentric connnection Ø 80 | EKHY090707 | • | • |
| | Eccentric connnection Ø 80 | EKHY090707 | • | • |
| | Elbow PP/ALU 80/125 90° | EKFGP4810 | • | • |
| | Elbow PP/GLV 60/100 30° | EKFGP4664 | • | • |
| | Elbow PP/GLV 60/100 45° | EKFGP4661 | • | • |
| | Elbow PP/GLV 60/100 90° | EKFGP4660 | • | • |
| | Elbow PP/GLV 80/125 30° | EKFGP4814 | • | • |
| | Elbow PP MB-AIR 80 90° | EKFGW4085 | • | • |
| | Elbow PP BM-AIR 80 45° | EKFGW4086 | • | • |
| | Extension Flex PP 100 L=10 M | EKFGP6346 | • | • |
| | Extension Flex PP 100 L=15 M | EKFGP6349 | • | • |
| | Extension Flex PP 100 L=25 M | EKFGP6347 | • | • |
| | Extension Flex PP 130 L=30 M | EKFGS0250 | • | • |
| | Extension Flex PP 80 L=10 M | EKFGP6340 | • | • |
| | Extension Flex PP 80 L=15 M | EKFGP6344 | • | • |
| | Extension Flex PP 80 L=25 M | EKFGP6341 | • | • |
| | Extension Flex PP 80 L=50 M | EKFGP6342 | • | • |
| | Extension PP 60x500 | EKFGP5461 | • | • |
| | Extension PP/GLV 60/100 x 1000mm | EKFGP4652 | • | • |
| | Extension PP/GLV 60/100 x 500mm | EKFGP4651 | • | • |
| | Extension PP/GLV 80/125 x 10000mm | EKFGP4802 | • | • |
| | Extension PP/GLV 80/125 x 500mm | EKFGP4801 | • | • |
| | Extension P BM-Air 80x500 | EKFGW4001 | • | • |
| | Extension P BM-Air 80x1000 | EKFGW4002 | • | • |
| | Extension P BM-Air 80x2000 | EKFGW4004 | • | • |
| | Filling loop set | EKFL1AA | • | • |
| | Flex 100-60 + Support Elbow | EKFGP6354 | • | • |
| | Flex 130-60 + Support Elbow | EKFGS0257 | • | • |
| | Flex Kit PP Dn.60-80 | EKFGP1856 | • | • |
| | Flex Kit PP Dn.8 | EKFGP2520 | • | • |
| | Flue Deflector 60 (UK Only) | EKFGP1295 | • | • |
| | Flue gas non-return flap | EKFGF1A | • | • |
| | Gas conversion kit from G20 to G25 | EKPS076227 | • | • |
| | Gas conversion kit from G20 to G25 (EKOMB22*, EKOMBG28*) | EKPS076217 | • | |
| | Gas conversion kit from G20 to G25 (EKOMBG22*) | EKPS076207 | • | |
| | Gas conversion kit from G20 to G26 (EKOMB22*, EKOMB(G)33*) | EKPS076227 | • | |
| | Inspection Elbow Plus PP/ALU 80/125 90° EPDM | EKFGP4820 | • | • |
| | Meas. Tee with Inspection Panel PP/GLV 60/100 | EKFGP4667 | • | • |
| | Plume Managment Kit 60 (UK Only) | EKFGP1294 | • | • |
| | PMK Elbow 60 45° (2 pcs) (UK Only) | EKFGP1285 | • | • |
| | PMK Elbow 60 90 (UK Only) | EKFGP1284 | • | • |
| | PMK Extension 60 L=1000 incl. breaket (UK Only) | EKFGP1286 | • | • |
| | Roof Terminal PP/GLV 60/100 AR460 | EKFGP6837 | • | • |
| | Roof Terminal PP/GLV 80/125 AR300 Ral-9011 | EKFGP6864 | • | • |
| | Spacer PP 80-100 | EKFGP6333 | • | • |
| | Support Breaket Top Inox Dn.100 | EKFGP6337 | • | • |
| | Support Breaket Top Inox Dn.130 | EKFGP6353 | • | • |
| | Tee Flex 100 Boiler Connectionset 1 | EKFGP6368 | • | • |
| | Tee Flex 130 Boiler Connectionset 1 | EKFGP6215 | • | • |
| | Thermistor recirculator | EK TH2 | • | • |
| | Wall Bracket Dn.100 | EKFGP4481 | • | • |
| | Wall Bracket Dn.100 | EKFGP4631 | • | • |
| | Wall Terminal Kit low profile PP/GLV 60/100 | EKFGP1293 | • | • |
| | Wall Terminal Kit low profile PP/GLV 60/100 | EKFGP297 7 | • | • |
| | Wall Terminal Kit PP/GLV 60/100 | EKFGP2978 | • | • |
| | Wall Terminal Kit PP/GLV 60/100 | EKFGP1292 | • | • |
| | Wall Terminal Kit PP/GLV 80/125 | EKFGW6359 | • | • |
| | Wall Terminal Kit low profile PP/GLV 60/100 (UK only) | EKFGP1299 | • | • |
| | Weather Slate Flat Alu 60/100 | EKFGP6940 | • | • |
| | Weather Slate Flat Alu 60/100 0°-15° | EKFGP1296 | • | • |
| | Weather Slate Flat Alu 80/125 | EKFGW5333 | • | • |
| | Weather Slate Flat Alu 80/125 0°-15° | EKFGP1297 | • | • |
| | Weather Slate Steep Pb/GLV 60/100 18°-22° | EKFGS0518 | • | • |
| | Weather Slate Steep Pb/GLV 60/100 23°-27° | EKFGS0519 | • | • |
| | Weather Slate Steep Pb/GLV 60/100 43°-47° | EKFGS0523 | • | • |
| | Weather Slate Steep Pb/GLV 60/100 48°-52° | EKFGS0524 | • | • |
| | Weather Slate Steep Pb/GLV 60/100 53°-57° | EKFGS0525 | • | • |
| | Weather Slate Steep Pb/GLV 80/125 18°-22° | EKFGT6300 | • | • |
| | Weather Slate Steep Pb/GLV 80/125 23°-27° | EKFGT6301 | • | • |
| | Weather Slate Steep Pb/GLV 80/125 43°-47° | EKFGT6305 | • | • |
| | Weather Slate Steep Pb/GLV 80/125 48°-52° | EKFGT6306 | • | • |
| | Weather Slate Steep Pb/GLV 80/125 53°-57° | EKFGT6307 | • | • |
| | Weather Slate Steep PF 60/100 25°-45° | EKFGP7910 | • | • |
| | Weather Slate Steep PF 80/125 25°-45° Ral-9011 | EKFGP7909 | • | • |
| | Flue gas decoupler 80/125 | DRDECO80125AA | | • |
| | Flue gas decoupler 80/80 | DRDECOP8080AA | | • |
| | Flue gas measurement adapter 60/100 (90° elbow) | DRMEEA60100AA | | • |
| | Flue gas measurement adapter 60/100 (straight) | DRMESA60100AA | | • |

# GCU ECH$_2$O

## Combines modern gas condensing technology with a thermal store


Daikin's **NEW** gas condensing unit

## Why choose the Daikin GCU ECH$_2$O

The GCU ECH$_2$O unit combines modern gas condensing technology with a thermal store. Customers achieve the highest heating comfort, maximum water hygiene and a small installation footprint.

### Multifaceted
Combine with solar and another heat source

### Highest hygiene
Abides by superior standards for water sanitation

### Connectivity
Features a wireless connection

### High DHW Tapping Profile
(3xx = L) and (5xx = XL)

### Attractive design

### Compact measurements
GCU ECH$_2$O 3xx: 595 x 615 x 1896 mm
GCU ECH$_2$O 5xx: 790 x 790 x 1896 mm

### High efficiency
Delivers 107% more energy efficiency with ISM/Smart Start Function

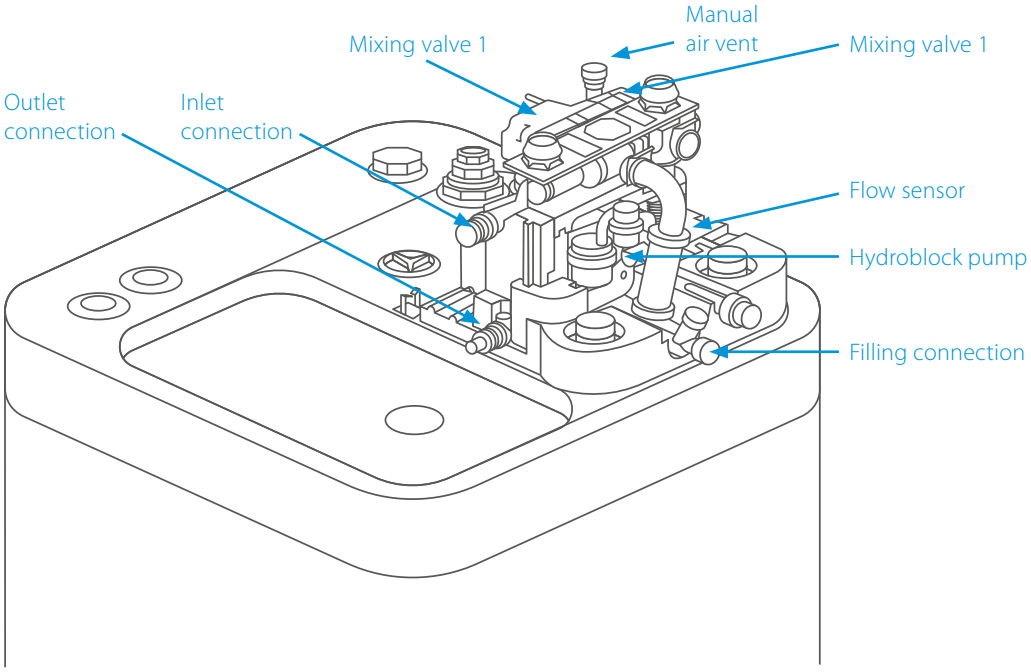
### Easy installation and service

### Lambda Gx
Fully electronic and accessible gas-air combination

## Benefits of the GCU ECH$_2$O

› Thermal store with hygienic fresh water technology
› Space-saving design: gas boiler and hygienic thermal store are combined in one device
› Future-proof and flexible: direct combination with a solar system is possible and can be added any time
› Highest heating comfort is customised for your home
› Power output 500 kW to 28 kW through Intelligent Storage Management (ISM)

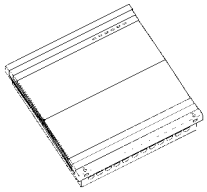
## GCU Technologies




## Flue gas features

› DN 60/100 Flue Gas Measurement Adapter in boiler package
› Suitable for common chimney applications
› The condensing boiler will be certified for (flue gas parts will be available):
B23, B23P, B33, B53P
C13(x), C33(X) , C43(x), C53(x) C63(x), C83(x), C93(x)

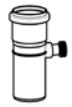
# Gas condensing/solar combination, GCU compact

| Regulation accessories | | Type | Order No. |
|---|---|---|---|
|  | **Room controller**<br>Convenience controller with wall-mounting for use as<br>a) A remote control (external equipment controller)<br>b) Mixer unit (additional or standalone)<br>c) Room thermostat for heat exchanger | RoCon U1 | 15 70 34 |
|  | **Mixer module**<br>Controller for mixer valve with speed-controlled high-efficiency pump including mixer circuit sensor<br>a) in combination with an equipment controller (RoCon B1). Mixer parameters adjustable via the heat generator.<br>b) in combination with room controller (RoCon U1)<br>1. can be used as a standalone solution<br>2. can be integrated in the system via BUS | RoCon M1 | 15 70 68 |
|  | **Outdoor temperature sensor for RoCon convenience regulation**<br>in conjunction with the mixer controller RoCon M1 when it is used as a zone or as a stand-alone solution | RoCon OT1 | 15 60 70 |
|  | **Gateway**<br>for coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP) . | RoCon G1 | 15 70 56 |

Energy efficiency classes on page 67.

**Hinweis:** Use of GCU applications only with exhaust system 80/125.

# Gas condensing/solar combination, GCU compact

| Accessories | | Type | Order No. |
|---|---|---|---|
|  | **Flue-gas kit GCU compact**<br>Double-walled connection set of 2x45° elbows with connection extender<br>from DN60 / 100 to DN80 / 125. | Set GCU1 | 15 50 79.17 |
|  | **Double-walled test adapter DN 60/100**<br>Accessories if no standard flue gas connection (Set GCU 1) is used. | D6 PA | 24 60 11 |
|  | **Single-walled test adapter DN 60**<br>Accessories for room-air independant operation if no standard flue gas connection (Set GCU 1) is used. | E6 PA | 24 60 12 |
|  | **Mixer group for all ROTEX heat generators**<br>For a mixed heating circuit.<br>Ready to plug in, in the thermal insulation case, with pressure controlled high-efficiency circulation pump, motor mixer, stops valves and temperature displays. | MK1 | 15 60 67 |
|  | **Mixer group for all ROTEX heat generators**<br>For a mixed heating circuit. Ready to plug in, in the thermal insulation case, with PWMcontrolled high-efficiency<br>circulation pump, motor mixer, stops valves and temperature displays. | MK2 | 15 60 72 |
| | **Fittings kit for mixer group MK1/MK2**<br>1" female thread x 1 1 / 2 " flat-sealing. | VMK1 | 15 60 53 |
|  | **Safety module for the GCU compact Product range**<br>With pressure gauge, 3 bar over-pressure valve, automatic bleeder, MAG connection and filling cock. | SBG GCU compact | 15 70 46 |
|  | **Convection brake**<br>To prevent circulation under gravity in Sanicube water circuits with Drain-Back, 2 pcs., suitable up to 95 °C, for installation in any tank-side heat exchanger connections except pressure solar heat exchanger | SKB | 16 50 70 |
|  | **Sludge and magnetite separator**<br>Compact sludge separator with drain cock and thermal insulation. Input G1-IG (union nut), outlet G1-IG. | SAS1 | 15 60 21 |
|  | **Sludge and magnetite separator**<br>Compact sludge separator with drain cock. Installation horizontally and vertically possible.<br>Input G1-IG, outlet G1-IG. | SAS2 | 15 60 23 |
| | **Service case for GCU compact**<br>contains common spare and replacement parts.<br>For GCU compact from year of manufacture 06 / 2013. | SKGCUc1 | 15 41 72 |

**Note:** To avoid gravity circulation, in water circuits connected to the storage tanks, the installation of circulation brakes (for example, type SKB) is recommended. Please order separately if required.

# Thermal stores and tanks

## Hot water heating installation options

## Why choose a thermal store or domestic hot water tank

**Whether you only need hot water or you want to combine your hot water with solar systems, we offer you the best solutions to the highest levels of comfort, energy efficiency and reliability.**

### The $ECH_20$ thermal store range

#### Comfort

- Fresh water principle: Daikin's thermal store provides domestic hot water on demand to ensure ultimate, year-round comfort
- Optimal domestic hot water performance: the thermal store uses stored water to produce semi-instantaneous hot water that also remains consistent, even with multiple taps connected

#### Efficiency

- Fit for the future: maximise renewable energy sources
- Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- High-quality insulation keeps heat loss to a minimum

#### Reliability

- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no water loss through the safety valve

Thermal store

Stainless steel tank

Enameled tank

# Domestic hot water tanks

## Stainless steel and enameled tanks

### Comfort

› Available in 150, 200 and 300 litres in stainless steel or enameled

### Efficiency

› High-quality insulation keeps heat loss to a minimum
› Efficient temperature heating: from 10°C to 50°C in only 60 minutes
› Available as an integrated solution or separate tank

### Reliability

› At necessary intervals, the unit can heat up water up to 60°C to prevent the risk of bacteria growth

# Thermal store with solar support

## EKHW(D/C)(H/B)-B/PB

| Accessory | | | | EKHWDH 500B | EKHWDB 500B | EKHWCH 300B | EKHWCH 300PB | EKHWC 500B | EKHWCH 500B | EKHWCH 500PB | EKHWCB 500B | EKHWCB 500PB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | | | | | | |
| | Material | | | Impact resistant polypropylene | | | | | | | | |
| Dimensions | Unit | Width | mm | 790 | | 595 | | 790 | | | | |
| | | Depth | mm | 790 | | 615 | | 790 | | | | |
| Weight | Unit | Empty | kg | 73 | 76 | 51 | 53 | 69 | 74 | 80 | 79 | 86 |
| Tank | Water volume | | l | 477 | | 294 | | 477 | | | | |
| | Material | | | Polypropylen | | | | | | | | |
| | Maximum water temperature | | °C | 85 | | | | | | | | |
| | Insulation | Heat loss | kWh/24h | 1.7 | | 1.5 | | 1.7 | | | | |
| | Energy efficiency class | | | B | | | | | | | | |
| | Standing heat loss | | W | 72 | | 64 | | 72 | | | | |
| | Storage volume | | l | 477 | | 294 | | 477 | | | | |
| Heat exchanger | Domestic hot water | Quantity | | 1 | | | | | | | | |
| | | Tube material | | Stainless steel (DIN 1.4404) | | | | | | | | |
| | | Face area | $m^2$ | 5,300.000 | | 3.900 | | 5.000 | | 5.300 | 5.000 | 5.300 |
| | | Internal coil volume | l | 25.9 | | 19.0 | | 24.5 | | 25.9 | 24.5 | 25.9 |
| | | Operating pressure | bar | 6 | | | | | | | | |
| | | Average specifc thermal output | W/K | 2,580 | | 1,890 | | 2,450 | | 2,580 | 2,450 | 2,580 |
| | Charging | Quantity | | 1 | | | | - | 1 | | | |
| | | Tube material | | Stainless steel (DIN 1.4404) | | | | - | Stainless steel (DIN 1.4404) | | | |
| | | Face area | $m^2$ | 2 | | | | - | 2 | | | |
| | | Internal coil volume | l | 11 | | 9 | | - | 11 | | | |
| | | Operating pressure | bar | 3 | | | | - | 3 | | | |
| | | Average specifc thermal output | W/K | 1,030 | | 920 | | - | 1,030 | | | |
| | Auxiliary solar heating | Tube material | | - | | | | Stainless steel (DIN 1.4404) | | | | |
| | | Face area | $m^2$ | - | | | | 1 | | | | |
| | | Internal coil volume | l | - | | | | 4 | | | | |
| | | Operating pressure | bar | - | | | | 3 | | | | |
| | | Average specifc thermal output | W/K | - | | | | 350 | | | | |

*Note: blue cells contain preliminary data

## EKHWP-B/PB

EKHWP300B

| Accessory | | | | EKHWP | 300B | 500B | 300PB | 500PB |
|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Traffic white (RAL9016) / Dark grey (RAL7011) | | | |
| | Material | | | | Impact resistant polypropylene | | | |
| Dimensions | Unit | Width | mm | | 595 | 790 | 595 | 790 |
| | | Depth | mm | | 615 | 790 | 615 | 790 |
| Weight | Unit | Empty | kg | | 58 | 82 | 58 | 89 |
| Tank | Water volume | | l | | 294 | 477 | 294 | 477 |
| | Material | | | | Polypropylen | | | |
| | Maximum water temperature | | °C | | 85 | | | |
| | Insulation | Heat loss | kWh/24h | | 1.5 | 1.7 | 1.5 | 1.7 |
| | Energy efficiency class | | | | B | | | |
| | Standing heat loss | | W | | 64 | 72 | 64 | 72 |
| | Storage volume | | l | | 294 | 477 | 294 | 477 |
| Heat exchanger | Domestic hot water | Quantity | | | 1 | | | |
| | | Tube material | | | Stainless steel (DIN 1.4404) | | | |
| | | Face area | $m^2$ | | 5.600 | 5.800 | 5.600 | 5.800 |
| | | Internal coil volume | l | | 27.1 | 29.0 | 27.1 | 29.0 |
| | | Operating pressure | bar | | 6 | | | |
| | | Average specifc thermal output | W/K | | 2,790 | 2,825 | 2,790 | 2,825 |
| | Charging | Quantity | | | 1 | | | |
| | | Tube material | | | Stainless steel (DIN 1.4404) | | | |
| | | Face area | $m^2$ | | 3 | 4 | 3 | 4 |
| | | Internal coil volume | l | | 13 | 19 | 13 | 19 |
| | | Operating pressure | bar | | 3 | | | |
| | | Average specifc thermal output | W/K | | 1,300 | 1,800 | 1,300 | 1,800 |
| | Auxiliary solar heating | Tube material | | | - | Stainless steel (DIN 1.4404) | - | Stainless steel (DIN 1.4404) |
| | | Face area | $m^2$ | | - | 1 | - | 1 |
| | | Internal coil volume | l | | - | 2 | - | 2 |
| | | Operating pressure | bar | | - | 3 | - | 3 |
| | | Average specifc thermal output | W/K | | - | 280 | - | 280 |

# Stainless steel domestic hot water tank

## EKHWS-B3V3/EKHWS-B3Z2

EKHWS-B

| Accessory | | | | EKHWS | 150B3V3 | 200B3V3 | 300B3V3 | 200B3Z2 | 300B3Z2 |
|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | Neutral white | | | | |
| | Material | | | | Epoxy-coated mild steel | | | | |
| Dimensions | Unit | Width | mm | | 580 | | | | |
| | | Depth | mm | | 580 | | | | |
| Weight | Unit | Empty | kg | | 37 | 45 | 59 | 45 | 59 |
| Tank | Water volume | | l | | 150 | 200 | 285 | 200 | 285 |
| | Material | | | | Stainless steel (DIN 1.4521) | | | | |
| | Maximum water temperature | | °C | | 85 | | | | |
| | Insulation | Heat loss | kWh/24h | | 155.0 | 177.0 | 219.0 | 177.0 | 219.0 |
| | Energy efficiency class | | | | C | | | | |
| | Standing heat loss | | W | | 65 | 74 | 91 | 74 | 91 |
| | Storage volume | | l | | 150 | 200 | 285 | 200 | 285 |
| Heat exchanger | Quantity | | | | 1 | | | | |
| | Tube material | | | | Duplex steel LDX 2101 | | | | |
| Booster heater | Capacity | | kW | | 3 | | | | |
| Power supply | Phase/Frequency/Voltage | | Hz/V | | 1~/50/230 | | | 2~/50/400 | |

# Domestic hot water tank

## EKHTS-AC

EKHTS260AC

EKHTS200AC

| Accessory | | | | EKHTS | 200AC | 260AC |
|---|---|---|---|---|---|---|
| Casing | Colour | | | | Metallic grey | |
| | Material | | | | Galvanised steel (precoated sheet metal) | |
| Dimensions | Unit | Height | Integrated on indoor unit mm | | 2,010 | 2,285 |
| | | Width | mm | | 600 | |
| | | Depth | mm | | 695 | |
| Weight | Unit | Empty | kg | | 70 | 78 |
| Tank | Water volume | | l | | 200 | 260 |
| | Material | | | | Stainless steel (EN 1.4521) | |
| | Maximum water temperature | | °C | | 75 | |
| | Insulation | Heat loss | kWh/24h | | 12.0 | 15.0 |
| | Energy efficiency class | | | | B | |
| | Standing heat loss | | W | | 50 | 63 |
| | Storage volume | | l | | 200 | 260 |
| Heat exchanger | Quantity | | | | 1 | |
| | Tube material | | | | Duplex steel (EN 1.4162) | |
| | Face area | | $m^2$ | | 1.560 | |
| | Internal coil volume | | l | | 7.5 | |

# Enameled domestic hot water tank

## EKHWE-A3V3/EKHWE-A3Z2

EKHWE200A

| Accessory | | | | EKHWE/EKHWET | 150A3V3 | 200A3V3 | 300A3V3 | 200A3Z2 | 300A3Z2 | 150A3V3 |
|---|---|---|---|---|---|---|---|---|---|---|
| Casing | Colour | | | | RAL9010 | | | | | |
| | Material | | | | Epoxy coated steel | | | | | |
| Dimensions | Unit | Diameter | mm | | 545 | | 660 | 545 | 660 | 545 |
| Weight | Unit | Empty | kg | | 80 | 104 | 140 | 104 | 140 | 82 |
| Tank | Water volume | | l | | 150 | 200 | 300 | 200 | 300 | 150 |
| | Material | | | | Enamel coated steel acc. DIN4753TL2 | | | | | |
| | Maximum water temperature | | °C | | 75 | | | | | |
| | Insulation | Heat loss | kWh/24h | | 1.7 | 1.9 | 2.5 | 1.9 | 2.5 | - |
| | Energy efficiency class | | | | C | | D | C | D | C |
| | Standing heat loss | | W | | 71 | 79 | 104 | 79 | 104 | 71 |
| | Storage volume | | l | | 150 | 200 | 300 | 200 | 300 | 150 |
| Heat exchanger | Quantity | | | | 1 | | | | | |
| Booster heater | Capacity | | kW | | 3 | | | | | |
| Power supply | Phase/Frequency/Voltage | | Hz/V | | 1~/50/230 | | | 2~/50/400 | | 1~/50/230 |

# Solar
## maximising renewable energy

## Why choose a Daikin solar panel

**Daikin's solar panels are designed to complement a variety of heating systems to garner more renewable energy to deliver hot water to your home.**

### Comfort

› Flexible solar system for pressureless and pressurised solar systems
› Hot tap water and heating support generated by solar energy
› Highly efficient flat solar panels that are available in 3 installation options:
- On roof
- In-roof
- Flat roof

### Energy efficiency

**ECH$_2$O thermal store range:**
**Hot water savings with solar energy**

Reduce your energy costs by taking advantage of the sun's renewable energy with our solar hot water systems. Built for small and large homes, individuals can choose between a pressureless or pressurised hot water system.

### Reliability

**Keymark Certificate**

› Daikin's solar collectors have been awarded the Solar Keymark certification. Recognised across Europe, the Keymark for solar thermal products helps users select quality solar collectors. In most European countries this certification is mandatory for the products to be eligible for subsidies.

## Solar panel - Overview EKSV21P - small vertical model

## Material list for standard solar panel systems for hot water preparation and heating support EKSV21P

### Solar panel
### EKSV21P

| Number of solar panels<br>Type of installation<br>Article | Type | Order No. | 2<br>On-roof<br>Quantity | 2<br>In-roof<br>Quantity | 3<br>On-roof<br>Quantity | 3<br>In-roof<br>Quantity | 4<br>On-roof<br>Quantity | 4<br>In-roof<br>Quantity | 5<br>On-roof<br>Quantity | 5<br>In-roof<br>Quantity |
|---|---|---|---|---|---|---|---|---|---|---|
| Solar panel | EKSV21P | 16 20 12-RTX | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| Solar panel connection | FIX-VBP | 16 20 16-RTX | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| Installation rail for individual solar panel | FIX MP 100 | 16 20 66 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| On-roof installation kit for one solar panel [DB+P)] (2 roof hooks per kit) | FIX-ADDP | 16 20 85 | 4[2)] | 0 | 6[2)] | 0 | 8[2)] | 0 | 10[2)] | 0 |
| In-roof installation package, basic storage for two solar panel | IB EKSV21P | 16 20 17 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| In-roof installation package, additional storage for central solar panel | IE EKSV21P | 16 20 18 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 |

## Material list standard solar panels with Drain-back system

| Type of installation | Type | Order No. | On-roof Quantity | In-roof Quantity |
|---|---|---|---|---|
| Control and pump unit | RPS 4 | EKSRPS4A | 1 | 1 |
| Support for connecting pipe solar panel | TS | 16 42 45 | 1 | 1 |
| Connection pipe solar panel | CON 15 | 16 47 32 | 1 | 1 |
| Roof penetration pack solar panel on-roof | EKSRCAP<br><br>EKSRCRP | EKSRCAP anthracite<br>EKSRCRP red | 1 | 0 |
| Installation accessories, solar panel in-roof | RCIP | 16 20 37-RTX | 0 | 1 |

| Nominal volume, complete system | | | | |
|---|---|---|---|---|
| Number of solar panels | 2 | 3 | 4 | 5 |
| Connecting line 15m | DN 16 | DN 16 | DN 20 | DN 20 |
| Nominal system volume (l) | 20.2 | 21.5 | 22.8 | 24.1 |

## Material list solar panels with pressure system [1)]

| Number of solar panels<br>Article | Type | Order No. | up to 2<br>Quantity | up to 3<br>Quantity | 4 to 5<br>Quantity |
|---|---|---|---|---|---|
| Controller | EKSDSR1A | EKSDSR1A | 1 | 1 | 1 |
| Pressure station solar panel | EKSRDS2A | EKSRDS2A | 1 | 1 | 1 |
| Solar panel pressurised solar line DN16 15m | CON 15P16 | 16 20 73 | 1 | 1 | 0 |
| Solar panel pressurised solar connection kit DN16 | CON CP16 | 16 20 75 | 1 | 1 | 0 |
| Solar panel pressurised solar line DN20 15m | CON 15P20 | 16 20 74 | 0 | 0 | 1 |
| Solar panel pressurised solar connection kit DN20 | CON CP20 | 16 20 76 | 0 | 0 | 1 |
| Solar panel expansion vessel 12l * | MAG S12 | 16 20 70 | 1 | 0 | 0 |
| Solar panel expansion vessel 25l * | MAG S 25 | 16 20 50 | 0 | 1 | 0 |
| Solar panel expansion vessel 35l * | MAG S 35 | 16 20 51 | 0 | 0 | 1 |
| Installation material solar panel with pressure system [1)] | RCP | EKSRCP | 1 | 1 | 1 |

**DB** Drain-back system

**P** Pressurised system

DB) Only required for installations with drain-back system.
P) Only required for pressurised installations.
* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.
1) The roof penetration for on-roof and flat roof installation is to be provided by the customer.
The solar fluid must be ordered separately.
2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

## Solar panel - Overview EKSV26P - standard vertical model

### Material list for standard solar panel systems for hot water preparation and heating support EKSV26P

**Solar panel EKSV26P**

| Number of solar panels Type of installation / Article | Type | Order No. | 2 On-roof Quantity | 2 In-roof Quantity | 2 Flat roof Quantity | 3 On-roof Quantity | 3 In-roof Quantity | 3 Flat roof Quantity | 4 On-roof Quantity | 4 In-roof Quantity | 4 Flat roof Quantity | 5 On-roof Quantity | 5 In-roof Quantity | 5 Flat roof Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solar panel | EKSV26P | EKSV26P | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| Solar panel connection | FIX-VBP | 16 20 16 - RTX | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| Mounting rail single collector | FIX MP 130 | 16 20 67 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| On-roof installation pack for one solar panel [DB+P)] (2 roof hooks per kit) | FIX-ADDP | 16 20 85 | 4[2)] | 0 | 0 | 6[2)] | 0 | 0 | 8[2)] | 0 | 0 | 10[2)] | 0 | 0 |
| In-roof installation kit, basic flashing for two solar panels | IB V26P | 16 20 19 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| In-roof installation pack, additional flashing for central solar panel | IE V26P | 16 20 20 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 3 | 0 |
| Flat-roof frame, basic pack for two solar panels | FB V26P | 16 20 58 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| Flat-roof frame, expansion pack additional solar panel | FE V26P | 16 20 59 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 3 |

### Material list standard solar panels with Drain-back system

| Number of solar panels Installation type / Article | Type | Order No. | On-roof Quantity | In-roof Quantity | Flat roof Quantity |
|---|---|---|---|---|---|
| Control and pump unit | EKSRPS4A | EKSRPS4A | 1 | 1 | 1 |
| Additional support troughs for connecting pipe solar panel | TS | 16 42 45 | 1 | 1 | 1 |
| Connection pipe solar panel | CON 15 | 16 47 32 | 1 | 1 | 1 |
| Roof penetration pack solar panel on-roof | EKSRCAP EKSRCRP | EKSRCAP Anthracite EKSRCAP Red | 1 | 0 | 0 |
| Installation accessories, solar panel in-roof | RCIP | 16 20 37-RTX | 0 | 1 | 0 |
| Roof penetration pack solar panel flat roof | RCFP | 16 20 38-RTX | 0 | 0 | 1 |

### Material list solar panels with pressure system [1)]

| Number of solar panels Installation type / Article | Type | Order No. | up to 2 Quantity | up to 3 Quantity | 4 to 5 Quantity |
|---|---|---|---|---|---|
| Controller | EKSDSR1A | EKSDSR1A | 1 | 1 | 1 |
| Pressure station solar panel | EKSRDS2A | EKSRDS2A | 1 | 1 | 1 |
| Solar panel pressurised solar line DN16 15m | CON 15P16 | 16 20 73 | 1 | 1 | 0 |
| Solar panel pressurised solar connection kit DN16 | CON CP16 | 16 20 75 | 1 | 1 | 0 |
| Solar panel pressurised solar line DN20 15m | CON 15P20 | 16 20 74 | 0 | 0 | 1 |
| Solar panel pressurised solar connection kit DN20 | CON CP20 | 16 20 76 | 0 | 0 | 1 |
| Solar panel expansion vessel 12l * | MAG S12 | 16 20 70 | 1 | 0 | 0 |
| Solar panel expansion vessel 25l * | MAG S 25 | 16 20 50 | 0 | 1 | 0 |
| Solar panel expansion vessel 35l * | MAG S 35 | 16 20 51 | 0 | 0 | 1 |
| Installation material solar panel with pressure system [1)] | RCP | EKSRCP | 1 | 1 | 1 |

| Nominal volume, complete system | | | | |
|---|---|---|---|---|
| Number of solar panels | 2 | 3 | 4 | 5 |
| Connecting line 15m | DN 16 | DN 16 | DN 20 | DN 20 |
| Nominal volume entire system (l) | 21 | 22.7 | 24.4 | 26.1 |

**Observe footnotes on page 56!**

## Solar panel - Overview EKSH26P - standard horizontal model

## Material list for standard solar panel systems for hot water preparation and heating support EKSH26P

### Solar panel H26 P

| Number of solar panels<br>Type of installation<br>Article | Type | Order No. | 1<br>On-roof<br>Quantity | 1<br>Flat roof<br>Quantity | 2<br>On-roof<br>Quantity | 2<br>Flat roof<br>Quantity | 3<br>On-roof<br>Quantity | 3<br>Flat roof<br>Quantity | 4<br>On-roof<br>Quantity | 4<br>Flat roof<br>Quantity | 5<br>On-roof<br>Quantity | 5<br>Flat roof<br>Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solar panel | EKSH26P | EKSH26P | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| Solar panel connection | FIX-VBP | 16 20 16 - RTX | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| Installation rail guide for individual solar panel | FIX MP 200 | 16 20 68 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| On-roof installation pack for one solar panel P) (4 roof hooks per kit) | FIX-ADDP | 16 20 85 | 2 2) | 0 | 4 2) | 0 | 6 2) | 0 | 8 2) | 0 | 10 2) | 0 |
| Flat roof support frame basic kit for one solar panel | FB H26P | 16 20 60 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| Flat roof trestle Extension pack for one additional solar panel | FE H26P | 16 20 61 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 4 |

| Nominal volume, complete system | | | | |
|---|---|---|---|---|
| Number of solar panels | 2 | 3 | 4 | 5 |
| Connecting line 15m | DN 16 | DN 16 | DN 20 | DN 20 |
| Nominal volume system (l) | 21.6 | 23.9 | 26 | 28.1 |

## Material list solar panels with pressure system 1)

| Number of solar panels<br>Installation type / Article | Type | Order No. | up to 3<br>Quantity | 4 to 5<br>Quantity |
|---|---|---|---|---|
| Pressurised thermal store | EKHWP500PB | EKHWP500PB | 1 | 1 |
| Controller | EKSDSR1A | EKSDSR1A | 1 | 1 |
| Pressure station solar panel | EKSRDS2A | EKSRDS2A | 1 | 1 |
| Solar panel pressurised solar line DN16 15m | CON 15P16 | 16 20 73 | 1 | 0 |
| Solar panel pressurised solar connection kit DN16 | CON CP16 | 16 20 75 | 1 | 0 |
| Solar panel pressurised solar line DN20 15m | CON 15P20 | 16 20 74 | 0 | 1 |
| Solar panel pressurised solar connection kit DN20 | CON CP20 | 16 20 76 | 0 | 1 |
| Solar panel expansion vessel 12l * | MAG S12 | 16 20 70 | 0 | 0 |
| Solar panel expansion vessel 25l * | MAG S 25 | 16 20 50 | 1 | 0 |
| Solar panel expansion vessel 35l * | MAG S 35 | 16 20 51 | 0 | 1 |
| Installation material solar panel with pressure system 1) | RCP | EKSRCP | 1 | 1 |

**Pressurised system**

P) Only required for pressurised installations.
* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.
1) The roof penetration for on-roof and flat roof installation is to be provided by the customer. The solar fluid must be ordered separately.
2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

## Solar panel - Overview EKSV26P - standard vertical model

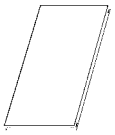
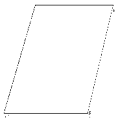
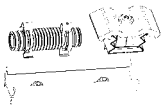
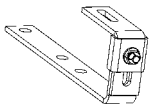
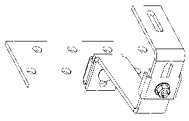
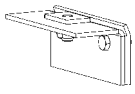
**List of materials for solar components that connect several storage tanks**

DB

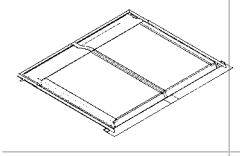
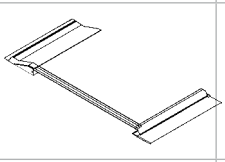
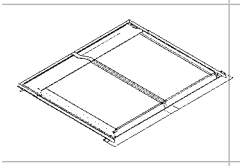
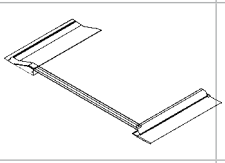
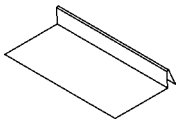
| Total number of storage tanks<br>Article | Type | Order No. | 2<br>Quantity | 3<br>Quantity |
|---|---|---|---|---|
| Solar panel storage tank extension kit | CON SX | 16 01 20 | 1 | 1 |
| Solar panel storage tank extension kit 2 | CON SXE | 16 01 21 | 0 | 1 |

# Solar panels for pressurised use and Drain-back system

**High-efficiency flat solar panels**
Stable watertight solar panel frame made of black anodised aluminium, highly special coating and safety glass, low-reflection, efficient heat insulation of the solar panel back plane with mineral wool. The minimum efficiency of the solar panel is more than 525kWh/m² per year (location: Würzburg, Germany). Suitable for drain-back and pressurised systems.

| Article | | Type | Order No. |
|---|---|---|---|
|  | **High-efficiency flat solar panel EKSV26P**<br>(2,000 x 1,006 x 85mm), solar panel area 1.79m²,<br>Weight 35kg, water content 1.3l. Max. 6 bar. | EKSV21P | EKSV21P |
|  | **High-efficiency flat solar panel EKSV26P**<br>(2,000 x 1,300 x 85mm), solar panel area 2.35m²,<br>Weight 42kg, water content 1.7l. Max. 6 bar. | EKSV26P | EKSV26P |
| | **High-efficiency flat solar panel EKSH26P**<br>(1,300 x 2,000 x 85mm), solar panel area 2.35m²,<br>Weight 42kg, water content 2.1l. Max. 6 bar. | EKSH26P | EKSH26P |
|  | **Solar panel connection**<br>Installation profile connector, expansion joints and double clamping blocks. | FIX-VBP | 16 20 16-RTX |
|  | **Installation profile rail for EKSV21P**<br>Consisting of installation profile rails and solar panel securing clips. | FIX MP 100 | 16 20 66 |
|  | **Installation profile rail for EKSV26P**<br>Consisting of installation profile rails and solar panel securing clips. | FIX MP 130 | 16 20 67 |
|  | **Installation profile rail for EKSH26P**<br>Consisting of installation profile rails and solar panel securing clips. | FIX MP 200 | 16 20 68 |
|  | **Support for connecting pipe solar panel**<br>Support troughs (5 in number, length, in each case, 1.3m) for support of the solar panel plastic connection lines in Drain-Back. | TS | 16 42 45 |
|  | **On-roof installation pack slate**<br>4 roof hooks for flat roofing, e.g. slate, for one solar panel. | FIX ADS | 16 47 23 |
|  | **On-roof installation pack MULTI**<br>2 height-adjustable roof hooks for drain-back and pressure system, including mounting materials. | FIX-ADDP | 16 20 85 |
|  | **Roof holder for corrugated covering**<br>4 holders including fixing material for one solar panel. | FIX-WD | 16 47 03-RTX |
|  | **Roof holder for welted sheet metal covering**<br>4 holders including fixing material for one solar panel.<br>Note: for on-roof installation only. | FIX-BD | 16 47 04-RTX |

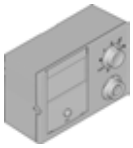
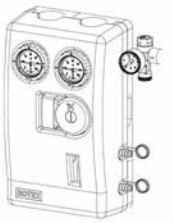
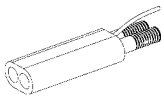
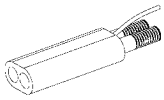
# Solar panels for pressurised use and Drain-back system

| Article | | Type | Order No. |
|---|---|---|---|
|  | **Basic in-roof assembly package EKSV21P**<br>Basic flashing for two solar panels, duct set including installation material.<br>Minimum roof gradient 15°. | IB V21P | 16 20 17 |
|  | **Extension kit in-roof mounting EKSV21P**<br>Additional package for an additional solar panel, duct set including installation material.<br>Minimum roof gradient 15°. | IE V21P | 16 20 18 |
|  | **Basic in-roof mounting pack EKSV26P**<br>Basic flashing for two solar panels, duct set including installation material.<br>Minimum roof gradient 15°. | IB V26P | 16 20 19 |
|  | **Expansion in-roof mounting pack EKSV26P**<br>Additional package for an additional solar panel, duct set including installation material.<br>Minimum roof gradient 15°. | IE V26P | 16 20 20 |
|  | **In-roof covering slate supplementary pack**<br>30 layer pieces for flat coverings, e.g. slate<br>(per basic in-roof pack you will need one supplementary pack). | FIX-IES | 16 46 16-RTX |
|  | **Basic pack flat-roof frame for mounting of two EKSV26P solar panels on flat roofs**<br>Pre-assembled system for simple and rapid installation, adjustable gradient (30° to 60°).<br>Suitable for wind load zone WLZ 2 (only to a limited extent for WLZ 3). | FB V26P | 16 20 58 |
|  | **Extension pack flat-roof frame for one additional EKSV26P solar panel**<br>Extension for FB V26P. | FE V26P | 16 20 59 |
|  | **Basic pack flat-roof frame for mounting of one EKSH26P collector on flat roofs**<br>Pre-assembled system for simple and rapid installation, adjustable gradient (30° to 60°).<br>Suitable for wind load zone WLZ 2 (only to a limited extent for WLZ 3). | FB H26P | 16 20 60 |
|  | **Extension pack flat-roof frame for one additional EKSH26P solar panel**<br>Extension for FB H26P. | FE H26P | 16 20 61 |
| | **Disassembly tools ducts drain-back system** | FIX LP | 16 20 29-RTX |

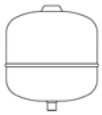
**Drain-back system**

**Pressurised system**

# Solar panel - pressure system

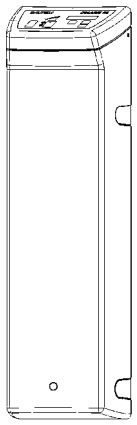
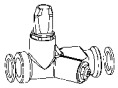
| Article | | Type | Order No. |
|---|---|---|---|
|  | **Controller**<br>Temperature-difference regulator for the solar panel with pressure system. Regulator with graphic display for representation of hydraulic schematics and yield balances, for example. Including return flow and storage tank temperature sensor and housing for wall mounting. | EKSDSR1A | EKSDSR1A |
|  | **Pressure station**<br>Consists of: Pipe connection ø 22mm including pipe compression fittings and support sleeves (5x), flow measurement unit with 2 x KFE cock, integrated air separator, ball-cocks with integrated back-flow prevention, Grundfos Solar 25-65 pump, safety group with pressure gauge, including insulation and installation accessories. | EKSRDS2A | EKSRDS2A |
|  | **Fill and drain connection**<br>For RPS3 and tanks from 2013 onwards, for easy filling and emptying through the fill and drain valve. | KFE BA | 16 52 15 |
|  | **Solar panel pressurised solar line DN 16**<br>15m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 16. For systems of up to 3 solar panels and a line length of up to 25m.<br>Without connection fittings. | CON 15P16 | 16 20 73 |
|  | **Solar panel pressurised solar connection kit DN 16**<br>All necessary fittings for connecting the pressurised solar line DN 16. Required together with CON 15P16. | CON CP16 | 16 20 75 |
|  | **Solar panel pressurised solar connection kit DN 16**<br>Fittings for connecting two pressurised solar lines DN 16. | CON XP16 | 16 20 71 |
|  | **Solar panel pressurised solar line DN 20**<br>15m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 20. For systems up to 5 solar panels and a line length of up to 25m. Without connection fittings. | CON 15P20 | 16 20 74 |
|  | **Pressurised solar connection kit DN 20**<br>All necessary fittings for connecting the pressurised solar line DN 20. Always required together with CON 15P20. | CON CP20 | 16 20 76 |
|  | **Solar panel pressurised solar connection kit DN 20**<br>Fittings for connecting the pressurised solar line DN 20. | CON P20 | 16 20 72 |
|  | **Installation material solar panel pressurised system**<br>Connection fittings for pressurised systems and solar panel installation material, consisting of installation material for solar panel and connection pipe, 2m UV-proof thermal insulation for the outer area, connection fittings and panel temperature sensor. The roof penetration must be provided to the customer. | RCP | EKSRCP |
|  | **Solar panel row connection for the solar panel with pressure system**<br>Connection kit for connecting two rows of solar panels in parallel. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1m thermally-insulated piping. | CON LCP | 16 20 45 |

# Solar panel - pressure system

| Article | | Type | Order No. |
|---|---|---|---|
|  | **Expansion vessel 12l with connection block**<br>For solar panels with pressure systems of max. 2 x EKSV21P - solar panels. | MAG S12 | 16 20 70 |
|  | **Expansion vessel 25l with connection block**<br>For solar panels with pressure systems of max. 3 solar panels. | MAG S 25 | 16 20 50 |
|  | **Expansion vessel 35l with connection block**<br>For solar panels with pressure systems of max. 5 solar panels. | MAG S 35 | 16 20 51-RTX |
|  | **GLYCOL CORACON SOL 5F**<br>20l can of pre-mixed solar fluid, functional range up to -28°C. | CORACON SOL 5F | 16 20 52-RTX |
|  | **GLYCOL CORACON SOL 5**<br>1l of solar fluid concentrate for extension of the frost range. With 20l of solar fluid with 1 l additive, the use range extends down to -33°C.<br>For 20l of solar fluid with 2x 1l of additive, the functional range is extended to -38°C. | CORACON SOL 5 | 16 20 53 |
|  | **Circulation lance**<br>For energetically-optimised incorporation of the domestic hot water circulation in the hot water connection of the warm-water storage tank. | ZKL | 16 51 13 |
| | **Thermostatic mixer as scalding protector**<br>Thermal safety device for the domestic water pipe. Setting range 35-60°C. | VTA32 | 15 60 15 |
| | **Screw connection kit 1”**<br>For connection of the scald protection VTA32. | | 15 60 16 |
| | **Thermostatic regulator 230V**<br>With capillary tube temperature sensor, setting range 35-85°C. | SCS-TR | 16 41 30 |
|  | **3-way switching valve 1" male**<br>With motor drive 230V, switchover time 6 sec. | 3 W-UV | 15 60 34 |

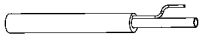
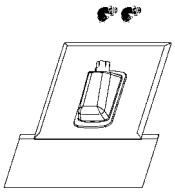
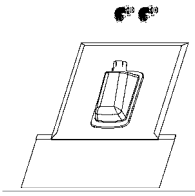
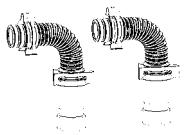
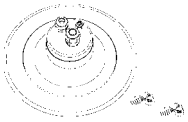
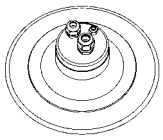
# Solar panels - drain-back system

DB

| Article | | Type | Order No. |
|---|---|---|---|
|  | **EKSRPS4 regulation and pump unit**<br>Ready to plug in unit (230V), with digital differential temperature regulation, return and storage tank temperature sensors, high-efficiency circulation pump.<br><br>**INFO:**<br>The flow sensor (FLS 20), included in the supply, provides more effective operation of the EKSRPS4. In addition to direct calculation of the heat output, the sensor allows modulation of the operating pump and thus an additional saving in electrical energy. | EKSRPS4 | EKSRPS4A |
| | **Fill and tap connection solar panel with drain-back system**<br>For easy filling of solar panels with drain-back system from 2013 onwards through the solar flow connector. | KFE DB BA | 16 52 16 |
|  | **Burner blocking contact connection cable**<br>For RPS2, RPS3, RPS3 M, RPS3 25M. | BSKK | 16 41 10-RTX |
|  | **Solar panel FlowGuard solar flow regulator**<br>with solar flow indicator 2-16l / min. | FLG | 16 41 02-RTX |
|  | **Connection tube solar panel**<br>Ready to connect connection line 15m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable. | CON 15 | 16 47 32 |
|  | **Connection tube solar panel**<br>Ready to connect connection line 20m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable. | CON 20 | 16 47 33 |
|  | **Solar panel solar flow sensor 100**<br>Sensor for expanding RPS3<br>25M control system, enables heat yield metering in large installations.<br>Measuring range up to 100l/min. | FLS 100 | 16 41 03-RTX |
|  | **Extension**<br>For connecting a collector array (EKSV21P, EKSV26P, EKSH26P) to the on-site rigid copper connection pipes when using roof penetration box kits EKSRCAP, EKSRCRP, RCIP, RCFP. | CON X20 25M | 16 42 32 |

# Solar panels - drain-back system

DB

| Article | | Type | Order No. |
|---|---|---|---|
|  | **Extension connection tube solar panel**<br>Ready to plug in including installation material and connection fittings<br>L = 2.5m<br>L = 5.0m<br>L = 10.0m<br>Maximum possible length of the connection pipe:<br>Number of solar panels / Max. length<br>2 / 45m<br>3 / 30m<br>4 / 17m<br>5 / 15m | CON X 25<br>CON X 50<br>CON X 100 | 16 42 61<br>16 42 62<br>16 42 63 |
|  | **Extension of the inflow pipe**<br>UV-resistant thermally-insulated, length = 8m, including cable connecting fitting for the solar panel sensor line. | CON XV 80 | 16 42 64 |
|  | **On-roof roof penetration, anthracite**<br>Roof penetration pack with connection fittings and solar panel installation material, consisting of anthracite roof penetration, installation material for solar panel and connection pipe, 2m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor. | EKSRCAP | EKSRCAP |
|  | **On-roof roof penetration, tile red**<br>Roof penetration pack with connection fittings and solar panel installation material, consisting of tile red roof penetration, installation material for solar panel and connection pipe, 2m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor. | EKSRCRP | EKSRCRP |
|  | **Solar panel panel row connection**<br>Connection kit for connecting two rows of solar panels one above the other. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1m thermally-insulated piping. | CON RVP | 16 20 35-RTX |
|  | **Installation material, solar panel in-roof**<br>Ready to plug in including installation material and connection fittings. | RCIP | 16 20 37-RTX |
|  | **Roof penetration, flat roof**<br>Roof penetration pack with connection fittings and solar panel installation material, consisting of flat-roof roof penetration, installation material for solar panel and connection pipe, 8.5m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor. | RCFP | 16 20 38-RTX |
|  | **Roof penetration flat-roof for alternate side solar panel connection**<br>Flat roof penetration with screw connections and blind plugs for penetration openings which are not used. | CON FE | 16 47 09 |
|  | **Solar panel boiler extension kit**<br>Connection kit for the connection of two warm-water storage tanks, consisting of drain-back connection tube and lead supply line. | CON SX | 16 01 20 |

# Solar panels - drain-back system

DB

| Article | | Type | Order No. |
|---|---|---|---|
|  | **Solar panel storage tank extension kit 2**<br>Connection kit for the connection of additional warm-water storage tanks, consisting of drain-back connection tube and lead supply line. | CON SXE | 16 01 21 |
|  | **Circulation lance**<br>For energetically-optimised incorporation of the tap-water circulation in the hot water connection of the warm-water storage tank. | ZKL | 16 51 13 |
| | **Thermostatic mixer as scalding protector**<br>Thermal safety device for the warm-water pipe. Setting range 35-60°C. | VTA32 | 15 60 15 |
| | **Screw connection kit 1"**<br>For connection of the scald protection VTA32. | | 15 60 16 |
| | **Thermostatic regulator 230V**<br>With capillary tube temperature sensor, setting range 35-85°C. | SCS-TR | 16 41 30 |
|  | **3-way switching valve 1" male**<br>With motor drive 230V, switch-over time 6 sec. | 3 W-UV | 15 60 34 |

# Solar collector

EKSH-P

## EKS(H/V)-P

| Accessory | | | EKSV/EKSH | 21P | 26P | |
|---|---|---|---|---|---|---|
| Mounting | | | | Vertical | | Horizontal |
| Dimensions | Unit | HeightxWidthxDepth | mm | 1,006x85x2,000 | | 2,000x85x1,300 |
| Weight | Unit | | kg | 33 | 42 | |
| Volume | | | l | 1.3 | 1.7 | 2.1 |
| Surface | Outer | | $m^2$ | 2.01 | 2.60 | |
| | Aperture | | $m^2$ | 1.800 | 2.360 | |
| | Absorber | | $m^2$ | 1.79 | 2.35 | |
| Coating | | | | Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%) | | |
| Absorber | | | | Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate | | |
| Glazing | | | | Single pane safety glass, transmission +/- 92% | | |
| Allowed roof angle | Min.~Max. | | ° | 15~80 | | |
| Operating pressure | Max. | | bar | 6 | | |
| Stand still temperature | Max. | | °C | 192 | | |
| Thermal performance | collector efficiency (ηcol) | | % | 61 | | |
| | Zero loss collector efficiency η0 | | % | 0.781 | 0.784 | |
| | Heat loss coefficient a1 | | $W/m^2.K$ | 4.240 | 4.250 | |
| | Temperature dependence of the heat loss coefficient a2 | | $W/m^2.K^2$ | 0.006 | 0.007 | |
| | Thermal capacity | | kJ/K | 4.9 | 6.5 | |
| Auxiliary | Solpump | | W | - | | |
| | Solstandby | | W | - | | |
| | Annual auxiliary electricity consumption Qaux | | kWh | - | | |

# Pump station

EKSRPS4

## EKSRPS /EKSRDS2A

| Accessory | | | EKSRPS4A/EKSRDS2A | EKSRPS4A | EKSRDS2A |
|---|---|---|---|---|---|
| Mounting | | | | On side of tank | On wall |
| Dimensions | Unit | HeightxWidthxDepth | mm | 815x142x230 | 410x314x154 |
| Weight | Unit | | kg | 6 | |
| Operation range | Ambient temperature | Min.~Max. | °C | 5~40 | 0~40 |
| Operating pressure | Max. | | bar | - | 6 |
| Stand still temperature | Max. | | °C | 85 | 120 |
| Thermal performance | collector efficiency (ηcol) | | % | - | |
| | Zero loss collector efficiency η0 | | % | - | |
| Control | Type | | | Digital temperature difference controller with plain text display | |
| | Power consumption | | W | 2 | 5 |
| Power supply | Phase/Frequency/Voltage | | Hz/V | 1~/50/230 | /50/230 |
| Sensor | Solar panel temperature sensor | | | Pt1000 | |
| | Storage tank sensor | | | PTC | - |
| | Return flow sensor | | | PTC | - |
| | Feed temperature and flow sensor | | | Voltage signal (3.5V DC) | - |
| Power supply intake | | | | Indoor unit | |
| Auxiliary | Solpump | | W | 30 | 23 |
| | Solstandby | | W | 2.00 | 5.00 |
| | Annual auxiliary electricity consumption Qaux | | kWh | 78 | 89 |

# Always in control

## Daikin Online Controller

**The Daikin Online Controller application can control and monitor the status of your heating system and allows you to:**

### Monitor
› The status of your heating system
› The power consumption
› Consult **energy consumption graphs**

### Schedule
› Schedule the set temperature and operation mode
with up to **6 actions per day for 7 days**
› Enable **holiday mode**
› View in intuitive mode

### Control
› The **operation mode** and set temperature
› Remotely control your system and domestic hot water
› Third-party products and services integration via IFTTT

### Applicable Daikin units
› Combinable to all Daikin units


### Daikin Online Heating Control
The Daikin Online Control Heating app is a multifaceted programme that allows customers to control and monitor the status of their heating system.

### Main features
› 'Daikin Eye' (intuitive setting)
› IFTTT compatible
› Tank temperature monitoring
› Equipped with GDPR (data protection)
› Remote firmware update of LAN Adapter
› Control over multiple unit locations
› Control photovoltaïc solar

### Applicable Daikin units
› Daikin Altherma low temperature split
› Daikin Altherma low temperature monobloc (5-7 kW)
› Daikin Altherma ground source heat pump
› Daikin Altherma hybrid heat pump
› Wall mounted gas condensing boiler D2CND
› GCU ECH20

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## EKRUCBL*

### Control
› Manage space heating, cooling, domestic hot water and among others, booster mode
› User-friendly remote control with contemporary design
› Easy to use with direct accessibility to all main functions

### Comfort
› An additional user interface can include a room thermostat in the space to be heated
› Easy commissioning: intuitive interface for advanced menu settings

### General features
Several languages possible depending on the model, including: English, German, Dutch, Spanish, Italian, French, Greek, Russian, etc.

### Applicable Daikin units
› Daikin Altherma low temperature split
- Wall mounted
- Floor standing
- Monobloc (5-7 kW)
› Daikin Altherma hybrid heat pump
› Daikin Altherma ground source heat pump
› Domestic hot water heat pump


* only in combination with EKRTETS

# System controller for Daikin Altherma

## Control

**Reduce installation time**

› Program all settings for an installation on a laptop computer and simply upload them to the controller during commissioning
› Reuse similar settings for related installations

**Improve service diagnostics and maintenance**

› The controller records the time, date and nature of the last 20 error occurrences

## Comfort

**Maximise comfort with stable room temperatures**

› Raise or lower water temperature as a function of the actual room temperature
› Manage energy consumption
› Intuitive screen displays the output and input energy of the unit provide consumption transparency

## General features

**Weather depending floating set point**

When the floating set point function is enabled, the set point for the leaving water temperature will be dependent on the outside ambient air temperature. At low outside ambient air temperatures, the leaving water temperature will increase to satisfy the rising heat requirement of the building. At warmer temperatures, the leaving water temperature will decrease to save energy.

## Applicable Daikin units

› Daikin Altherma low temperature monobloc (11-16 kW)
› Daikin Altherma high temperature
› Daikin Altherma Flex Type

# EKRTR/EKRTW

## Control

The LCD screen of the room thermostat presents the necessary information regarding the setting of the Daikin Altherma system.

## Comfort

An external sensor (EKRTETS) can be placed between the underfloor heating and the floor, as an alternative to the wireless room thermostat.

## General features

› Set the temperature of the room based on measurements from the built-in or external sensor
› Off function (with integrated frost-protection function)
› Holiday function mode
› Comfort and reduced function modes
› Time (day and month)
› Programmable weekly timer with 2 user defined and 5 preset programmes, with up to 12 actions per day
› Keylock function
› Set limits: the installer can change the upper and lower limits
› Floor temperature protection

## Applicable Daikin units

› Combinable to all Daikin units

# RTRNETA3AA

## Control

Control your Daikin Altherma system and track your energy consumption via smartphone, tablet or computer.

## Comfort

The Auto-Adapt function programs the thermostat according to the insulation of your house and the outdoor temperature. You will receive a personal energy savings report each month via email, allowing you to monitor your energy consumption and to schedule your heating more efficiently.

## General features

› Wired or wireless installation
› E-paper display for energy savings, autonomy and readability
› Free app available on the App Store-- lifetime support with no subscription fee
› Access to your online personal dashboard
› Wi-Fi 802.11 b/g/n compatible
› Supported security: Open/WEP/WPA/WPA2-personal
› Long range, 100 m, wireless connection between thermostat and relay
› 5 interchangeable colours available

## Applicable Daikin units

› Daikin Altherma HT
› Wall mounted gas condensing boiler EKOMB*

## EKRUCBL/EKRUCBS

| Indoor unit | | EKRUCBL/EKRUCBS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | EKRUCBS |
|---|---|---|---|---|---|---|---|---|---|---|
| Control systems | Class of temperature control | | VI | | | | | | | |
| | Contribution to seasonal space heating efficiency | % | 4.0 | | | | | | | |

EKRTWA

EKRTR

## EKRTW/EKRTR

| | | | | EKRTR | EKRTWA |
|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | mm | -x-x- | 87x125x34 |
| | Thermostat | Height/Width/Depth | mm | 87/125/34 | -/-/- |
| | Receiver | Height/Width/Depth | mm | 170/50/28 | -/-/- |
| Weight | Unit | | g | - | 215 |
| | Thermostat | | g | 210 | - |
| | Receiver | | g | 125 | - |
| Ambient temperature | Storage | Min./Max. | °C | -20/60 | |
| | Operation | Min./Max. | °C | 0/50 | |
| Temperature setting range | Heating | Min./Max. | °C | 4/37 | |
| | Cooling | Min./Max. | °C | 4/37 | |
| Clock | | | | Yes | |
| Regulation function | | | | Proportional band | |
| Power supply | Voltage | | V | - | Battery powered 3* AA-LR6 (alkaline) |
| | Thermostat | Voltage | V | Battery powered 3x AA-LRG (alkaline) | - |
| | Receiver | Voltage | V | 230 | - |
| | Frequency | | Hz | 50 | - |
| | Phase | | | 1~ | - |
| Connection | Type | | | - | Wired |
| | Thermostat | | | Wireless | - |
| | Receiver | | | Wired | - |
| Maximum distance to receiver | Indoor | | m | approx. 30m | - |
| | Outdoor | | m | approx. 100m | - |
| Control systems | Class of temperature control | | | IV | |
| | Contribution to seasonal space heating efficiency | | % | 2.0 | |


22°C
OK

# Trust Daikin

Daikin may not be a household name. After all, we don't make cars, TVs, fridges or washing machines. But we do make world-class heat pumps. In fact, more than 275,000 Daikin Altherma heat pumps have been fitted across Europe since its initial launch in 2006. Because we focus on doing only what we're best at: creating the most efficient heating, ventilation and air conditioning solutions, renowned for design excellence, quality and reliability. So you can depend on Daikin for the ultimate in comfort, leaving you free to focus on other essentials.

ERHQ-BV3, EBHQ-BBV3, EDHQ-BBV3 are not intended for use in Erp cold regions as defined in EN no 811-814/2013

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