



All-in-one comfort for residential applications

Daikin Altherma: at the heart of any heating solution



Why choose Daikin heating systems?

Thanks to our European R&D and 50 years of heat pump experience, our innovative heating technologies reduce running costs and optimise renewable energy usage.

Heating, domestic hot water and cooling Sustainable & efficient energy solutions



Your customer requires a new heating system

- > must be energy efficient
- > must have low CO₂ emissions

Your solution: Daikin

- \rightarrow top seasonal efficiencies up to A^{+++}
- uses air-to-water and ground-to-water heat pump technology, hybrid technology or gas condensing technology

Your customer gains:

- reduced energy bill
- > limited environmental impact
- > optimal temperatures and comfort

Your gains:

- > modular construction
- > easy installation
- simple commissioning

Result: win-win for you and the customer



Offer your customer the benefits of a Daikin solution

Advanced technologies deliver energy efficiency and cost savings

1 Ground-to-water technology: extracting heat from the ground

Geothermal technology allows heat to be extracted from the ground and used to raise the temperature of the water in the system.

> High seasonal efficiency even in colder climates, thanks to stable source temperatures.

2 Air-to-water technology: extracting heat from the outside air

Using a heat pump, the system extracts heat from the outside air to raise the temperature of the water in the system

- Guaranteed operation down to -25°C so no winter worries
- > A solar solution can be included for pre-heating the domestic hot water.

3 Hybrid technology: a gas boiler combined with air-to-water technology

Combining the latest and most efficient gascondensing boilers with our heat pump technology gives the customer the best of both worlds.

- The most economical heating mode is chosen depending on settings selected
- > Ideal for the replacement of existing gas boilers.

4 Combustion technology: the latest and most efficient gas condensing boilers

Our innovative heat exchanger will provide both space heating and domestic hot water.

- Delivers maximum heating efficiency
- Modulating control system results in low running costs at all times.

Optimal comfort

Our solutions allow a single system to deliver heating in the winter, cooling in the summer and domestic hot water all year round and when combined with our user-friendly control system, it allows the customer to program for perfect comfort!

Perfect for any application

Daikin heating systems are the perfect solution for any application in both the residential and commercial fields, providing optimal comfort, energy efficiency and cost savings. Whether a new build or a renovation project and no matter what size of building, our systems can be tailored to provide the perfect solution.

Combines with all types of heat emitters

The choice of heat emitters depends on what the customer needs in terms of comfort and aesthetics and the Daikin heating systems combine perfectly with underfloor heating, heat pump convectors and low or high temperature radiators.

Efficiency made transparent Clarity for the way ahead

To promote the ecological design of energy related products (ErP) in Europe, the EU Commission has issued the Ecodesign Directive. This directive applies to all EU Member States and introduces minimum efficiency standards for heat generators and water heaters. Effective 26 September, 2015, all products must meet these new efficiency standards.

Uniform energy labels for heaters, water heaters and heating packages will be implemented to complement these new efficiency standards. These labels will simplify energy comparisons. In order to help our trade partners transition to the next generation of energy efficiency standards, Daikin is offering:

- specialist training courses
- informational literature
- > online resources.

Data, facts, background

Ecodesign Directive and Energy Labels

From 26 September, 2015, heat generators with up to 70kW output, and tanks with up tp 500l must be labeled according to the new energy efficiency standards. Labeling applies to individual products (product labels) and heating systems (package labels). A datasheet detailing the efficiency specifications must also accompany each item.

Identical across Europe

The Ecodesign Directive applies to all EU Member States and aims to promote the manufacture and development of environmentally responsible and energy efficient heating systems.

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).

Package labels

Lot 2: Water heaters and tanks

- > traditional water heaters
- solar water heaters
- > heat pump water heaters
- storage tanks

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. Package labels 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.



It's all about A!

Daikin offers innovative solutions for the highest efficiency

For over 90 years, Daikin has been developing heating systems that create the perfect climate. From the beginning, our priorities have been environmental protection and customer satisfaction. This is why all Daikin products are reliable, efficient and ensure maximum environmental compatibility.



How many pluses do you want to add?

Best label for heat pumps

Daikin is a global leader in heat pump manufacturing. We offer individual heat pump solutions for all demands. Flexible and efficient, Daikin heat pumps achieve the highest energy classifications.

Combination with solar: Excellent package label ratings

Daikin offers solutions that work in combination with solar energy. Our solar solutions can be retrofitted to accommodate existing systems, or installed as new. Solar is fully renewable solution that achieves high class efficiency.

Large tanks and extreme insulation

With the 500l thermal store, Daikin offers one of the largest, energy efficient heat store on the market. The large buffer volume and enormous energy capacity ensure excellent efficiency levels for domestic hot water heating. The PUR foam insulation reduces heat loss and significantly improves its efficiency class.

A strong team:

Daikin Altherma integrated solar unit with solar panel. Solar energy is the perfect complement to heat pumps. Applicable to domestic hot water and space heating, this combination excels in energy efficiency.



Top energy-efficient solutions for every application

From renewable to combustion



Air-to-water technology			Hybrid technology	Combustion
	Daikin Altherma low temperature monobloc	Daikin Altherma high temperature split	Daikin Altherma hybrid heat pump	Gas condensing boiler
	p 28	p 34	p 44	p 54
		 heating: A hot water: B 	$\rightarrow \text{ heating: up to } A^{++}$ $\rightarrow \text{ hot water: } A^{++}$	→ heating: <mark>A</mark> → hot water: <mark>A</mark>
		› Ideal for replacement of a traditional boiler	→ Ideal for replacement of a gas boiler	 Ideal for replacement of an existing gas boiler
		 > Space heating > Domestic hot water > Solar connection for hot water production 	 > Space heating > Domestic hot water > Cooling > Solar connection for hot water production 	 > Space heating > Domestic hot water
	> 1 outdoor unit	 > 1 indoor unit > 1 outdoor unit 	 > 1 indoor unit + 1 gas condensing boiler > 1 outdoor unit 	→ 1 indoor unit
		> High temperature radiators	 Under floor heating Low and high temperature radiators 	 Under floor heating Radiators

Ground-to-water technology

1. Daikin Altherma ground source heat pump







Why choose Daikin Altherma ground source heat pump?

Your customer requires a new heating system

- > must work in low ambient temperatures
- must work with renewable energy sources and low environmental impact
- > low running costs

Your solution: the Daikin Altherma ground source heat pump

- provides heating and domestic hot water from renewable and free energy sources the underground
- uses inverter heat pump technologies for higher seasonal efficiency

Your customer benefits:

- > optimal comfort plus domestic hot water
- > low operating costs due to high efficiencies
- > low environmental impact

Your gains:

- thanks to a factory-fitted domestic hot water tank
- > easy installation
- > simple commissioning

Result: win-win for you AND the customer

Making a difference

High seasonal efficiency thanks to our inverter heat pump technology

The Daikin inverter heat pump technology has been shown to provide an increase in seasonal efficiency of up to 20% when compared to traditional on/off ground source heat pumps.

- The brine, a water/anti-freeze mixture that operates as the heat transfer medium between the ground and the heat pump, is kept at a higher stable temperature.
- > Back up operation is reduced to a minimum
- High compressor operating efficiencies are reached at partial load operation, i.e. when full capacity of the unit is not required.

This results in reduced running costs and a faster return on investment.return on investment.



Higher brine temperatures during continuous compressor operation, in partial load conditions

Case study





Outgoing Brine Temperature (HP as reference)



In this typical application, when full capacity is not required the compressor works in partial load operation. Traditional on/off ground source heat pumps switch ON and OFF sequently in partial load conditions and the brine temperature decreases down to -4°C when the unit is operating. Daikin's inverter technology results in a stable outgoing brine temperature of around 0°C. This increased stability in brine temperature results in a higher and more constant evaporating temperature which leads to higher operating efficiencies.

Less back up heater operation thanks to the boosting of the inverter compressor frequency



Ambient temperature (Ta) °C



Compared to a traditional On/Off unit, the requirement for support from the back up heater is much lower for the Daikin Altherma ground source heat pump, thanks to the boosting effect of our inverter compressors, also this leads to lower running costs.

Big partial load operation at relevant ambient conditions

Case study

Typical Nordic climate application with standard heat load:

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



Heat load line

Daikin Altherma ground source heat pump - minimum capacity

— Daikin Altherma ground source heat pump -maximum capacity

- 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.

The compressor will reduce its operating frequency to deliver the exact required capacities with high operating efficiencies.

3 **On/Off operation:** The heat load is below the minimum heating capacity, therefore the unit will go into On/Off mode to deliver the required capacity. In a Nordic climate, around 80% of the required heat output has to be delivered in an ambient temperature range between -9°C and 8°C, indicated by the orange zone. To deliver a high seasonal Coefficiency of Performance (COP), it is crucial to have high operating efficiencies for this ambient temperature range as the majority of the required heat has to be delivered within this temperature range. As you will see, thanks to its wide modulating range, the Daikin Altherma ground source heat pump almost completely covers the relevant ambient temperature range whilst in partial load operation, which it the optimal operational zone of the unit. This is, of course, a major benefit compared to traditional On/Off compressors.

Quick and easy installation including a domestic hot water tank

To keep things simple, the domestic hot water tank is factory-fitted, thus reducing the installation time and with the pipework connections on the top of the unit it is very easy to connect.

The overall weight of the unit is reduced to facilitate ease of shipping and installation.

Compact indoor unit with pleasing design

- The full integration of heat pump module and domestic hot water tank keeps the footprint very compact
- > High quality design helps the unit blend in with other household units
- The footprint of the integrated unit is 728mm x 600mm - about the same as a normal household appliance - and at 1800mm high, it fits neatly in any standard room. A further benefit to both the installer and the user is that only 10mm side clearance is required and all the pipework connections are on top of the heat pump unit.



New user interface

 Quick commissioning: the installer can program all the settings for an installation on a laptop computer and then simply upload them to the controller during commissioning. This not only reduces on-site time, but allows the installer to use a similar setting on similar installations.

FRANCIN

- > User-friendly room thermostat functionality: the user can raise or lower water temperature as a function of the actual room temperature, resulting in a more stable room temperature and higher comfort levels.
- Energy management functionality: the controller displays both the output and input energy of the unit allowing the user to manage their energy consumption more accurately.
- Easy servicing: the controller records the time, date and nature of the last 20 error occurrences enabling quicker diagnostics and maintenance.



Air-to-water technology 2. Daikin Altherma low temperature split









Why choose Daikin Altherma low temperature?

Your customer requires: a new heating system

- > must work in a new build or low-energy house
- must work with under floor heating, convectors and low temperature radiators

Your solution: the Daikin Altherma low temperature

- provides heating, domestic hot water and cooling with optional solar support
- available in capacities from 4 to 16 kW depending on requirements
- available as split floor standing, split wall mounted, or monobloc
- > ideal for new builds and low energy houses

Your customer gains:

- > optimal comfort plus domestic hot water
- > low operating costs thanks to high efficiencies

Your gains:

- > modular construction
- flexible installation
- > simple commissioning

Result: win-win for you AND the customer

Daikin Altherma low temperature heat pump the natural choice



Daikin Altherma low temperature split

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

a. Integrated heating and hot water unit, saving installation space and time

- All components and connections factory-made
- Very small installation footprint required
- > Minimum electrical input with constant availability of hot water
- > Model with integrated bi-zone kit available from spring 2015.

b. Integrated heating and hot water unit with extended flexibility

- Solar support of domestic hot water with pressureless (drain-back) and pressurised solar system
- > Lightweight plastic tank with exceptional hygienic benefits
- > Bivalent option: combinable with a secondary heat source
- > App control possible.

С.

Wall mounted indoor unit with optional domestic hot water tank

The best solution in specific situations:

- > Ideal when either no domestic hot water or more flexibility for domestic hot water is required
- > Combinable with a separate domestic hot water tank with optional solar connection.









Daikin Altherma low temperature monobloc

A monobloc is the answer when the requirement is for a simple system relying on a single outside unit and no indoor unit.

- > Everything combined in one outdoor unit
- Quick and easy installation as only water pipes run indoors from the outdoor unit
- > Limited installation space required as only outdoor space is required
- > Freeze protection of hydraulic parts.

a. COMFORT

- Quiet, compact outdoor unit
- > Easy installation out of the box, with no refrigerant handling

b. ENERGY EFFICIENCY

> COP up to 5* with typical annual efficiencies of up to 300%

c. CONTROL

> Quick-to-commission, user friendly controller

d. RELIABILITY

- > Reliable operation even when -25°C outside*
- > Frost protection features for total peace of mind





2. Daikin Altherma low temperature split

Guaranteed operation:

Daikin Altherma is suitable for all climates, even with standing severe winter conditions



Daikin is renowned for its know-how related to frost protection on its heat pump range. The outdoor units are specifically designed to avoid ice build-up problems, even in the most severe winter conditions.

Daikin Altherma low temperature has a guaranteed operation down to an outside temperature of -25°C. This ensures sufficient heat pump operation for even the coldest climates.

- **a.** The 4-8kW range of Daikin Altherma has a specifically designed casing to avoid the risk of ice formation on the outdoor unit coil.
 - The outdoor unit has a free hanging coil, ensuring no ice accumulates in the lower part of the outdoor unit. This is key to offering appropriate frost protection and has the additional advantage that no electrical bottom plate heater is required.
 - > The discharge grill is also specifically designed to avoid ice accumulation.

b. The 11-16kW range of Daikin Altherma (ERLQ-C) has specific frost protection.

- Hot gas pass: hot gaseous refrigerant coming from the compressor runs through the bottom plate to keep the base free of ice and all the 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 keep this lower part free of ice.



Free hanging coil



Our advanced protection against frost and icing means that we can offer the Daikin Altherma across the whole of Europe.

Hot gas pipe



Only a small capacity bottom plate heater is installed (35W) on the ERLQ011,014,016C range, with smart operation logic only operating during defrost cycles. This saves around 90% of electricity consumption compared to a thermostatically controlled bottom plate heater.

New discharge grille



Integrated floor standing unit, saving installation space and time

- The stainless steel domestic hot water tank is included in the unit, with all connections between the heat pump module and tank factory mounted. This allows for a fast installation compared to a traditional set-up (wall-mounted with separate domestic hot water tank) with only water and refrigerant pipes to be connected.
- All hydraulic components are included (circulating pump, expansion vessel, back-up heater, etc.)
 No need to look for third party components.
- The electric PCB board and hydraulic components are accessible from the front. This ensures easy serviceability and avoids the risk of any damage to electrical components due to water leakages.
- All water and refrigerant connections are at the top of the unit, assuring easy connection and accessibility. This means no connections are required at the back of the unit, resulting in a lower installation footprint.



Components are accessible from the front



Thanks to the all-in-one design, the installation space is minimised both in terms of footprint and height

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

Traditional set-up



Integrated indoor unit





on both sides

Smaller footprint: with a width of only 600 mm and a depth of 728 mm, the integrated indoor unit has a similar footprint compared to other household appliances. For installation, almost no side clearances are required, and no space is required behind the unit for the piping, as the piping connections are at the top.This results in an installation footprint of only 0.45 m².

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 fitting with other household appliances.

Integrated solar unit, maximising renewable energy and offering top comfort

Solar support of domestic hot water with pressureless (drain-back) or pressurised solar system

The integrated solar unit uses free energy from the sun to support the production of domestic hot water.

At its peak, 80% of solar energy can be converted into usable heat, made possible by the extremely high efficiency of our flat solar panels. Solar energy and heat pumps complement each other ideally in this application. The heat pump adds the required amount of heat to the system to meet demand. The graphic shows when and how much the solar system supports the heating and hot water generation.

Combined with a heat pump, which also exploits regenerative ambient energy, the use of ancillary energy is reduced to an absolute minimum.

Solar energy utisisation for hot water and heating Heat pump (environmental heat)

Auxiliary energy



Depending on your customer's needs, a pressureless or pressurised system can be offered.

Pressureless (drain-back) solar system (with EHSH(X)-A)

The solar collectors are only filled with water when sufficient heat is provided by the sun. In this case, both pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water. After filling, which takes less than a minute, one of the pumps switches off and water circulation is maintained by the remaining pump.

If there is insufficient sunshine or if the solar storage tank does not need more heat, the feed pump switches off and the entire solar system drains into the storage tank. The addition of antifreeze is not necessary since, if the installation is not in use, the collector surfaces are not filled with water. Another environmental advantage!

Pressurised solar system (with EHSH(X)B-A)

If needed, a pressurised thermal hot water system can also be offered. The system is filled with heat transfer fluid containing the correct amount of antifreeze to avoid freezing in winter. The whole system is pressurised and sealed.



Lightweight plastic tank with exceptional hygienic benefits

The integrated domestic hot water tank is waterhygienic and is state of- the-art technology. Thanks to the flow-through principle, legionella bacteria cannot grow, thus eliminating the need for a thermal disinfection cycle. Its exceptional water hygiene benefits have been confirmed in an extensive study by the Hygiene Institute at the University of Tübingen.

Bivalent option: combinable with a secondary heat source (EHSH(X)B-A only)

Heat from other sources can also be efficiently stored in the indoor unit. A solar system can also be supported by oil-fired and gas-fired boilers, pelletfired boilers or wood-fired stoves with back boilers for heating and hot water generation. If you are not installing a solar system from the beginning, it can be fitted quickly and easily at any time afterwards.

App control possible

1. Control with the app

Simple consistent handling with intuitive menu navigation and control can be carried out via your smartphone with the app. available from beginning of 2015.

2. Clear display and easy modification

The display shows values and parameters in clear text. All operating modes, timer programmes and operating parameters can be set and modified quickly.

3. Simple controller for easy regulation

The water temperature for the heating is regulated in accordance with the outdoor temperature. The controller automatically detects winter and summer, and switches the heating mode on and off to suit the demand. The controller is easy and intuitive to operate and can be extended by the use of a room controller, which can be used conveniently to control and monitor the heating system.





Wall mounted unit, offering flexibility for installation and domestic hot water connection

The wall-mounted indoor unit

- 1. When no domestic hot water is required in combination with the Daikin Altherma system
 - All hydraulic components are included in the heat pump unit (circulating pump, expansion vessel, back-up heater, etc), no need to look for third-party components
 - All hydraulic components and the PCB board, are accessible from the front for easy serviceability
 - Compact unit: 890 mm (height) x 480 mm (width)
 x 344 mm (depth)
 - Small installation space as almost no side clearances are required
 - Modern outlook easily fits in with other modern household appliances.
- 2. The wall-mounted indoor unit can be combined with a separate domestic hot water tank
 - > EKHWS stainless steel tank: 150l, 200l or 300l
 - > EKHWE enameled tank: 150l, 200l or 300l.
- 3. When solar connection for hot water is required:

Averaged over an entire year, the sun delivers half of the energy we need to bring our domestic hot water up to the desired temperature. High efficiency collectors with highly selective coating transfer all the short-wave solar radiation into heat. The collectors can be mounted on virtually any kind of roof.







- Pressureless (drain-back) solar system
 The solar collectors are only filled with water
 Heat is provided by the sun.

 - > Both pumps switch on briefly and fill the collectors with storage tank water.
 - > After filling, water circulation is maintained by the remaining pump.



Drain-back solar system

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.



Pressurised solar system

3.Daikin Althermalow temperature monobloc



Why choose a monobloc

> No indoor space required for the heating system

> Quick installation: only water pipes run indoors from the outdoor unit as all hydraulic parts are located within the outdoor unit.



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Outdoor unit only

1. All hydraulic components are combined in the outdoor unit

Available in 5kW and 7kW models, the new Daikin Altherma LT monobloc requires only a controller indoors, when space heating is needed For use of both space heating and domistic hot water, a wiring centre is added. And the outdoor unit can be installed almost anywhere, under a window sill, or in the smallest of gardens. So it's a natural fit for new build and renovation projects alike.

2. The space-saving design is ideal for homes where space is limited

- > The outdoor unit includes all hydraulic components
- Smallest installed volume in the market: H735 x W1085 x D360 mm – only 80 kg
- The separate installation of controller and wiring centre allows a flexible installation in the house.

3. Everything you need from one source

The Daikin Altherma monobloc works efficiently with Daikin's range of under-floor heating, radiators and fan convectors and can be combined with solar thermal systems. So you can count on Daikin for your entire project.

Freeze protection of hydraulic parts

In order to protect the water pipes from freezing up during winter, insulation is provided for all hydraulic components and special software has been applied to activate the pump and back-up heater if necessary. This prevents the water temperature from dropping below freezing point and obviates the need for the addition of glycol to the water pipes.



Wiring centre



H₂O piping, No refrigerant piping



11kW, 14kW and 16kW casing



Whether your customer wants domestic hot water only or the advantage of solar energy, Daikin offers you the domestic hot water tank that meets his or her requirements.

EKHWS / EKHWE Domestic hot water tank

- > Available in 150,200 and 3001
- > Stainless steel (EKHWS) or enameled (EKHWE).

Pressurised solar system

If needed, a pressurised thermal hot water system can also be offered. The system is filled with heat transfer fluid containing the correct amount of antifreeze to avoid freezing in winter. The whole system is pressurised and sealed.

EKHWP Domestic hot water tank with drain-back solar support

- › Available in 2 capacities: 300 and 500 litres
 - Can be combined with drain-back solar systemOptimised connections
- > Easier installation of each system circuit
 - Improved design: attractive colour and new form
 - Optimised for easy transport and installation
 - Better insulation means reduced energy costs
 - Higher flow-rate thanks to optimised connection technology
 - Clear connections mean easier installation.

Pressureless (drain-back) solar system

The solar collectors are only filled with water when sufficient heat is provided by the sun. In this case, both pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water. After filling, which takes less than a minute, one of the pumps switches off and water circulation is maintained by the remaining pump. If there is insufficient sunshine or if the solar storage tank does not need more heat, the feed pump switches off and the entire solar system drains into the storage tank. The addition of antifreeze is not necessary since, if the installation is not in use, the collector surfaces are not filled with water – another environmental advantage!

Easy control

System controller for Daikin Altherma low temperature split

In case something goes wrong, full-text error messages will guide the end-user to take appropriate action to try and resolve the problem. If the problem persists and a site intervention is necessary, the service engineer will be able to review the last 20 error occurrences. Detailed information on the operational conditions of the unit, such as the running hours of the different elements, operating temperatures or number of starts, can easily be read out from the extended end-user's menu.



System controller for Daikin Altherma low temperature monobloc 11-16 kW

The leaving water temperature is dependant on the outside ambient temperature thanks to the floating setpoint functionality. At low outside ambient temperatures, the leaving water temperature will increase to satisfy the increasing heating requirement of the building and vice versa.



EKRTR/EKRTW

Control

The LCD screen of the room thermostat indicates all the necessary information regarding the setting of the Daikin Altherma system in the blink of an eye.

Comfort

An external sensor (EKRTETS) can be placed between the under floor heating and the floor, as an option to the wireless room thermostat. The user can easily navigate between the different menus, the most common of which include.



RTRNETA3AA

Control at a distance

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 e-mail, allowing you to monitor your energy consumption and to schedule your heating more efficiently.



General features

- Setting 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 week-timer with 2 user defined and
 5 pre-set programmes, with up to 12 actions per day
- Keylock function
- Setting limits. The installer can change the upper and lower limits
- > Floor temperature protection.*
- * only in combination with EKRTETS

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/WPA2personal
- Long range, 100 m, wireless connection between thermostat and relay
- > 5 interchangeable colours available

Heat pump convector

The latest in heat pump convector technology for high performance

The Daikin heat pump convector is specifically designed to offer optimal efficiencies and comfort for residential applications.

- Small dimensions compared to
- low temperature radiators
- > Low sound level, optimal for bedroom applications (down to 19 dBA)
- > High-capacity cooling with water temperatures down to 6°C.







Air-to-water technology 3. Daikin Altherma high temperature split









Why choose Daikin Altherma high temperature?

Your customer requires a new heating system

- must work with existing high temperature radiators
- > must replace the existing boiler

Your solution: the Daikin Altherma high temperature

- provides heating and domestic hot water with optional solar support
- available in capacities from 11 to 16 kW depending on requirements
- works with existing high temperature radiators up to 80°C without additional back-up heater

Your customer gains:

- > optimal comfort plus domestic hot water
- > low operating costs due to high efficiencies

Your gains:

- reduced installation time as a result of not having to replace radiators and piping
- simple commissioning

Result: win-win for you AND the customer

For replacement of oil boilers

Daikin Altherma high temperature system offers heating and domestic hot water for your home. This system can perfectly replace a tradional boiler and connect to the existing piping. Daikin Altherma high temperature is therefore the ideal solution for renovations. The split system consists of an outdoor unit and an indoor unit and can be completed with solar connection.

- Low running costs and optimum comfort at even the coldest outdoor temperatures, thanks to the unique cascade compressor approach
- No need to change your existing radiators and piping as water temperatures can be increased up to 80°C for heating and domestic hot water use
- Only limited installation space needed as the indoor unit and domestic hot water tank can be stacked on each other.
- A Indoor unit
- B Outdoor unit
- C Domestic hot water tank




Split system

A split system consists of an outdoor unit and an indoor unit

The Daikin Altherma outdoor unit includes a heat pump that extracts heat from the outside air resulting in nearly 2/3 of all usable heat coming from a sustainable and free source.

The outdoor unit extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via refrigerant piping.

The indoor unit receives the heat from the outdoor unit and further increases the temperature, allowing water temperatures up to 80°C for heating through radiators and for domestic hot water use. Daikin's unique cascade compressor approach to the heat pumps (one in the outdoor unit/one in the indoor unit) means optimum comfort at even the coldest outdoor temperatures, without the need for an electric back-up heater. Available capacities are 11, 14 and 16 kW. If a greater heating capacity than 16 kW is required, you can now combine several indoor units with one single outdoor unit to give up to 40 kW of heating.

Daikin Altherma high temperature heats up to 3 times more efficiently than a traditional heating system based on fossil fuels or electricity. A lower running cost is thus achieved, while you can still enjoy a stable and pleasant level of comfort.

Accessories for high temperature applications

User interface

With Daikin Altherma's user interface, the ideal temperature can be easily, quickly and conveniently regulated. It allows for more precise measurement and can regulate your comfort even more optimally and energy efficiently.

Heat emitters

The Daikin Atherma high temperature system is designed to work with high-temperature radiators, which come in various sizes and formats to suit the interior design as well as the heating requirement. The radiators can be individually controlled or they can be regulated by the central heating control programme.

Solar connection

The Daikin Altherma high temperature heating system can optionally use solar energy for hot water production.

If the solar energy is not required immediately, the purpose-built hot water tank (EKHWP) can store large quantities of heated water for up to a day for later use as domestic hot water or for heating.



Outdoor unit

Daikin Altherma high temperature uses 100% thermo-dynamic energy to obtain water temperatures **up to 80°C** without using an additional heater.

Inverter control means even more savings!

The inverter constantly adapts your system to actual heating demand. No need to fiddle with settings: the programmed temperature is optimally maintained regardless of outdoor and indoor factors such as the amount of sunlight, the number of people in the room, etc. This results in unmatched comfort, prolonged system life since it's only in operation when needed, and 30% additional savings in energy costs compared to non-inverter heat pumps.



Heating operation:



Daikin Altherma cascade technology

High performance in 3 steps:

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



Indoor unit

- > Available in heating only applications
- > No back-up heater required thanks to cascade technology



- 1. Heat exchanger R-134a \leftrightarrow H₂O
- 2. Heat exchanger R-410A ↔ R-134a
- 3. Pump (DC-inverter to maintain fixed ΔT)
- 4. Compressor R-134a
- 5. Air purge
- 6. Manometer
- 7. Expansion vessel (12l)





- 2 The **indoor unit** receives the heat and further increases the temperature with R-134a refrigerant.
- 3 The **heat is transferred from the R-134a** refrigerant circuit to the water circuit. Thanks to the unique cascade compressor approach, water temperatures of 80° C can be reached without using an additional back-up heater.



Domestic hot water tank





or



Whether your customer wants domestic hot water only or the advantage of solar energy, Daikin offers you the domestic hot water tank that meets his or her requirements.

The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available.

Non-stacked

Stacked

EKHTS: Domestic hot water tank

- > Available in 200 and 260 litres
- > Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes*
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- > At necessary intervals, the indoor unit can heat up the water to more than 60°C to prevent the risk of

bacteria growth.

* Test done with a 16kW outdoor unit

at ambient temperature of 7°C, 200L tank

- 1. Hot water connection
- T-piece (field supply) 2.
- Pressure relief valve connection 3.
- 4. Pressure relief valve (field supply)
- 5. Recirculation hole
- Thermistor socket б.
- 7. Flow inlet connection
- 8. Heat exchanger coil
- 9. Return outlet connection
- 10. Cold water connection
- 11. Thermistor
- 12. Anode
- 13. Knockout holes
- 14. Knockout holes





Solar connection



domestic hot water tank

Drain-back system

If the constructional conditions permit, recommend the direct drain-back system. In this system, the water in the storage tank is supplied directly and without heat exchanger to the solar collectors, heated and then stored. This process considerably increases the efficiency of the entire system, especially the solar collectors. Because the system is not pressurised, there is no need for an expansion tank, pressure relief valve, pressure gauge or heat exchanger.

A fully-automatic controller independently manages the solar system to provide optimum use of solar energy. The solar collectors are only filled if there is sufficient energy from the sun, and if the thermal storage tank can absorb the heat. When energy from the sun is insufficient, or the thermal storage tank can not absorb more heat, then the feed pump switches off, and the entire solar system drains into the thermal storage tank. Because of this process, this system does not require antifreeze. The connection pipes in the building and on the roof must be installed with a constant gradient.

EKHWP: domestic hot water tank

The domestic hot water tank has two sections: The upper, always hot, section – the active water zone – and the lower, colder section – the solar zone. The active water is heated in the upper section of the storage tank. The high temperature of this zone ensures that sufficient hot water is always available.

Solar collectors work more efficiently when colder water flows through them. Therefore, the water that is fed directly to the solar collectors in solar operation is stored in the solar zone.





System controller

The user interface controls the high temperature heating system in two ways:





1/Weather dependant floating set point

When the floating set point functionality is enabled, the set point for the leaving water temperature will be dependant on the outside ambient temperature. At low outside ambient temperatures, the leaving water temperature will increase to satisfy the increasing heating requirement of the building. At warmer temperatures the leaving water temperature will decrease to save energy.

2/Thermostat control

With Daikin Altherma's user interface with integrated temperature sensor, the ideal temperature can be easily, quickly and conveniently regulated. The easy-to-control user interface for high temperature applications guarantees your comfort:

- > Space heating
- › Ouiet mode
 - ode
- Setback function
- > Disinfection function
- Off function
- Time scheduler
- Domestic water
- heating mode

Optional room thermostat

The thermostat measures the room temperature and communicates directly to the user interface. The LCD screen of the room thermostat indicates all the necessary information regarding the setting of the Daikin Altherma system in the blink of an eye. The user can easily navigate between the different menus, the most common of which include:

- Setting 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 week-timer with 2 user defined and 5 pre-set programmes, with up to 12 actions per day
 Keylock function
- Setting limits. The installer can change the upper and lower limits
- > Floor temperature protection. *

* only in combination with EKRTETS



Hybrid technology

4. Daikin Altherma hybrid heat pump

PDAIKIN

11111





Why choose Daikin Altherma hybrid heat pump?

What your customer wants:

- > more energy efficient systems
- > more cost effective systems

Your solution:

choose a Daikin Altherma hybrid heat pump

- combination of gas condensing technologies and air-to-water heat pumps
- > delivers up to 35% more heating efficiency
- optimises the operation of the most efficient gas condensing boilers

Your customer benefits:

- low running costs for heating and domestic hot water
- > low investment costs
- > ideal for renovation applications

Your gains:

- > modular construction
- > Easy and fast installation

Result: win-win for you AND the customer



An opportunity in residential heating !

What is condensing boiler technology?

Condensing boiler technology converts the fuel used into usable heat, virtually without loss. This is both good for the environment and your wallet, since lower energy consumption means lower heating costs, less use of energy resources and a reduction in CO_2 emissions. During this process, flue gases are cooled to the extent that the steam they contain is condensed. The energy that is released by this process, is used as heating energy.

What is an air-to-water heat pump?

The Daikin Altherma air-to-water heat pump is a sustainable energy source: extracting heat from the outside air. In a closed loop containing a refrigerant, a thermodynamic cycle is created through evaporation, condensation, compression and expansion. This 'pumps' heat from a lower to a higher temperature level.

The heat gained is transferred to your home's central heating distribution system.





to 35% more heating efficiency.



Low running costs for heating and domestic hot water compared to traditional boilers

A. Space heating



Illustration of an average European climate



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

Heat pump operation

The heat pump integrated in the Daikin Altherma hybrid heat pump is the best available technology for optimizing running costs at moderate outdoor temperatures, resulting in a coefficient of performance of 5.04¹!

Hybrid operation

If a high heat load is required, or to achieve the highest efficiencies at the current conditions, both the gas boiler and heat pump operate at the same time in the most economical way. The water flow rate will be automatically regulated, in order to have the possibility of lowering the temperature of the water flowing from the radiators to the heat pump and so maximizing the heat pump efficiency. The exact time the switch-over is made from heat pump operation to hybrid operation depends on the house characteristics, energy prices, the requested indoor temperature setting and the outdoor temperature.

Gas operation

When outdoor temperatures are dropping drastically, it is no longer efficient to operate in hybrid mode. At that point, the unit will switch automatically to gas operation only.

(1) heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

B. Domestic hot water

Hot water produced with gas condensing technology

Efficiency increase up to 10-15% compared to traditional gas condensing boilers thanks to a special dual heat exchanger:

- > cold tap water flows directly into the heat exchanger
- > optimal and continuous condensing of the flue gases during domestic hot water preparation.



V Low investment benefits

There is no need to replace the existing radiators (up to 80°C) and pipe work as our Daikin Altherma hybrid heat pump connects directly to the existing heating system, thus reducing the cost and disruption of installation. Thanks to the compact dimensions, the space needed for the new system is very similar to that of an existing system, so there is no loss of space and no need for structural modifications.



Daikin Altherma hybrid heat pump Existing gas boiler



Several applications are possible using the Daikin Altherma hybrid heat pump as all heat loads are covered up to 27 kW. The gas boiler can be installed without the heat pump in the early stages, in order to quickly restart heating in the case of a breakdown of the existing gas boiler.





- Heat pump outdoor unit
- Heat pump indoor unit
- Gas condensing boiler

As the heat pump indoor unit and gas condensing boiler are delivered as separate units, they are easier to handle and manipulate, and easier to install. The heat pump indoor unit is easily mounted on the wall with a standard back plate. With the quick interconnections, the gas condensing boiler is easily attached to the heat pump indoor unit, resulting in a very compact unit. Similar to all wall mounted gas boilers, all the connections are at the bottom and all the components can be accessed from the front, which makes the unit easy to service and maintain.



Gas condensing boiler



Heat pump outdoor unit

Heat pump indoor unit



Case Study

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



- A 100% use of gas boiler
- B Heat pump + gas boiler
- C 100% use of heat pump

+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

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

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

Combustion

5. Gas condensing boiler



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Why choose the Daikin gas condensing boiler?

Customer requirement: a new wall mounted boiler

- > must simply replace the existing boiler
- > must provide heating and domestic hot water
- > increased efficiency and lower operating costs

Your solution: the Daikin gas condensing boiler

- dual heat exchanger giving lower operating costs
- small size and easy connections makes for easy installation

Customer benefits:

- > simple and fast installation
- > low operating costs due to high efficiencies
- > high quality touch and feel

Your gains:

> plug-and-play replacement

Result: win-win for you AND the customer

A new generation of high-efficiency boilers

for top comfort and low costs

Low costs for both heating and hot water thanks to new dual heat exchanger

Unique in the market: double condensation, not only for heating but also for domestic hot water resulting in low running costs

1. With the heat exchanger for space heating, maximum efficiency is reached by removing excess heat from flue gases, the condensation effect.the flue gases

[Unique Daikin feature]

2. Thanks to the dedicated heat exchanger for instantaneous domestic hot water production, the condensation effect is used for outstanding domestic hot water efficiency



Top comfort

You expect Daikin to deliver maximum heating comfort and the domestic hot water needed in your customer's home. Our innovative gas-fired condensing boiler provides it all, exactly as required.

Modulating high-efficiency boiler: low running costs at all times

The Daikin gas condensing boiler is fitted with an advanced modulating controller that automatically adjusts the heat output of the boiler to maintain the correct temperature within the home and to optimise the efficiency of the heat exchanger. In addition, an ECO comfort switch is fitted so that in **ECO mode** the domestic hot water is quickly heated and made available in line with your consumption history whilst in Comfort mode it is available at all times.

Gas condensing boiler





Easy installation in minimum space

Installation time can be reduced to the minimum by using our optional pre-assembled B-pack which contains all the components for the functional installation in one module and fits behind the boiler. And as there are fewer parts, the Daikin condensing gas boiler is more reliable and easier to service

Beyond the ordinary Daikin total solutions

and provides a flexible and total solution in almost every possible circumstance.



At your service, with the Daikin selection tools



Daikin worked out three selection tools for an accurate estimation of your specific project and doing so Daikin provides a maximum of comfort, even in the early stage of choosing! / even when considering the options!

Make a quick estimation of savings on running costs and savings on CO₂ emissions thanks to the Energy Savings Calculator.

The Daikin Altherma simulation software provides for every specific application an appropriate heat pump selection based on the specific house and location details. And for new houses or renovations the Daikin Altherma selection and simulation software allows quick and easy identification of the optimal mix of components.

To select your flue gas system, please visit http://fluegas.daikin.eu





Daikin provides a web-based tool to give a quick estimation of savings on running costs and savings on CO₂ emissions. Based on a few inputs from the customer (location, house type, floor area, number of people), a comparison is made between the Daikin Altherma heat pump system and traditional heating systems. This comparison includes the space heating and domestic hot water heating. This is available for both new builds and refurbishment applications. http://ecocalc.daikin.eu





Simulation software

The Daikin Altherma simulation software provides for every specific application an appropriate heat pump selection, taking into account the needs of the building and specific climate data. An installer can provide the following data:

- house application: heat/cool load, water temperatures, power supply
- > climate conditions: location, design temperature
- domestic hot water requirements: tank volume, material, solar connection
- > preferences: "heating off" temperature, night setback function.

Based on the specific house and location details, the software provides a full dimensioning assuring a correct material selection.



As well as a full material selection, the software provides detailed information for the installer and the end-user, on the expected outcome of the specified Daikin Altherma unit for its specific application and climate:

- > seasonal efficiency of the heat pump system
- > amount of back-up heater operation
- > energy consumption and energy cost per month
- savings on running costs compared to traditional heating systems

All this information will be summarised in a detailed report.

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



Technical specifications

1. Daikin Altherma ground source heat pump

Daikin Altherma ground source heat pump

EGSQH-A9W

V		
20		

EGSQH-A9W

Indoor Unit			E	GSQH	10S18A9W
Heating capacity	Min.			kW	3.11 (1) / 2.47 (2)
	Nom.			kW	10.20 (1) / 9.29 (2)
	Max.			kW	13.00 (1) / 11.90 (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/W	idth/Depth	mm	1,732/600/728
Weight	Unit			kg	210
Tank	Water volume			1	180
	Insulation	Heat loss	ŀ	Wh/24h	1.4
	Corrosion protec	tion			Anode
Operation range	Domestic hot water	Water side	e Max (booster	heater)	·
Refrigerant	Туре				R-410A
	Charge			kg	1.8
				TCO₂eq	3.8
	Control				Electronic expansion valve
	GWP				2,087.5
Sound power level	Nom.			dBA	46
Sound pressure level	Nom.			dBA	32
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V	9W/3~/50/400
Current	Recommended f	uses		Α	25
Domestic hot	General	Declared	load profile		L
water heating	Average climate	ηwh (water he	ating efficiency)	%	93.1
*		Water hea efficiency	iting energy class		A
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	144
			Seasonal sp heating eff.	ace class	A++
	Average climate water outlet 35°C	General	ns (Seasonal space heating efficiency)	%	202
			Seasonal sp heating eff.	ace class	A++

(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)

Daikin Altherma low temperature split





EHVH-CB

EHVH-CB + ERLQ-CV3/CW1

Efficiency data			EHVH	+ ERLQ	04518 CB3V + 004 CV3	08518CB3 / 08526CB9 + 006CV3	3V 9W '3	08S18CB3V / 08S26CB9W + 008CV3	11518 / / 1152 + 01	3CB3V 6CB9W 1CV3	16518 / 16526 + 014	CB3V 5CB9W 1CV3	16518CB3V / 16526CB9W + 016CV3	11518 / 11526 + 011	CB3V 5CB9W 1CW1	16518 / 16526 + 014	CB3V CB9W CW1	165180 / 165260 + 0160	:B3V CB9W CW1
Heating capacity	Nom.			kW	4.40 (1) /	6.00 (1)	/	7.40 (1) /	11.2	2 (1) /	14.5	(1) /	16.0 (1) /	11.2	(1) /	14.5	(1) /	16.0 ((1) /
<u> </u>					4.03 (2)	5.67 (2))	6.89 (2)	11.0) (2)	13.6	5 (2)	15.2 (2)	11.0) (2)	13.6	(2)	15.2	(2)
Power input	Heating	Nom.		kW	0.870 (1)	1.27 (1) /	$\langle $	1.66 (1) /	2.4:	3 (1) / n (2)	3.37	(1)/ (2)	3.76 (1) /	3.42	2 (1) / 1 (2)	3.37	(1) / (2)	3.76 ((1) /
COP					5.04 (1) /	4.74 (1)	/	4.45 (1) /	4.60 (1)	/ 2.75 (2) /	4.30 (1) /	2.65 (2) /	4.25(1)/2.64(2)/	4.60 (1) /	2.75 (2) /	4.30(1)/2	(2)	4.25(1)/2	(2)
					3.58 (2)	3.56 (2))	3.42 (2)	3.55 (3)	/ 2.10 (4)	3.32 (3)	2.08 (4)	3.26 (3) / 2.09 (4)	3.55 (3)	/ 2.10 (4)	3.32 (3) /	2.08 (4)	3.26 (3) / 2	2.09 (4)
Domestic hot	General	Declared	load profile			L X	(L	L XL	L	XL	L	XL	L XL	L	XL	L	XL	L	XL
water heating	Average climate	ηwh (water he	ating efficiency)	%	95.0	86.4 90	0.0	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 nea	class									А							
Space heating	Average climate	General	SCOP		3.20	3.22		3.23	3.	09	3.	16	3.06	3.	09	3.1	6	3.0	6
	water outlet		ηs (Seasona	%							-	-					-		-
-	55°C		space heatin efficiency)	ng	125		12	26	1.	20	12	23	119	12	20	12	3	119	¢
			Seasonal sp	ace		A+	++						A	\ +					
	Average climate	Conoral	heating eff.	class	4.52	4 20		4.24	2	2.00		20	2.00	2	00	20	0	2.0	0
	water outlet	General	ns (Seasona	%	4.52	4.29	_	4.54	5.	.90	5.	90	5.00	5.	90	5.5	0	5.0	0
	35℃		space heatin efficiency)	ng	178	169		171	1	56	15	53	149	15	56	15	3	149	9
			Seasonal sp heating eff.	ace class				A++					A+	A		++		A+	F
					0/1518	09519CB3	21/	09518CB3V	11019	CR3V	16519	CR3V	16518CB3V	11010	CR3V	16519	°B3V	165190	CB3V
Indoor Unit	Calavia	EHVH C			CB3V	/ 08S26CB9	9W	/ 08526CB9W	/ 1152	6CB9W	/ 16526	SCB9W	/ 16S26CB9W	/ 11526	5CB9W	/16526	CB9W	/165260	CB9W
Casing	Material					Prec						ed she	et metal						
Dimensions	Unit	HeightxW	'idthxDepth	mm		1,732x600x728													
Weight	Unit			kg	116	117 12	27	117 127	117	126	118	128	118 128	117	126	118	128	118	128
Tank	Water volume			I	18	30 26	50	180 260	180	260	180	260	180 260	180	260	180	260	180	260
	Maximum water	temperatu	re	°C								65							
		tion		Dar								Anode	2						
Operation range	Heating	Water side	e Min.~Max.	°C		15~	~55					lineut	- 15,	~55					
	Domestic hot water	Water side	e Min.~Max.	°C		25~	~60						25~6	0/60					
Refrigerant	Charge			TCO₂eq								-							
Cound nowor loval	GWP			dDA				42			2	2,0875.	5		2		4	4	
Sound pressure level	Nom.			dBA				28				4	4 0	2	12		4	4 D	
												-					-	-	
Outdoor Unit				ERLQ	004CV3	006CV	3	008CV3	011	CV3	014	CV3	016CV3	0110	CW1	0140	:W1	016C	W1
Dimensions	Unit	HeightxW	'idthxDepth	mm	F 4	735x83	32x3	307					1,345x9	00x32	0				
	Quantity			кд	54		50	σ			T	1				f	+		
compressor	Type				Herme	etically sealed	d swii	ng compressor			ŀ	Herme	tically seale	d scro	ll com	oresso			
Operation range	Cooling	Min.~Max		°CDB		10.0~	~43.	.0					, 10.0	~46.0					
	Domestic hot water	Min.~Max		°CDB	ļ	-25~	~35	5					-20	~35					
Refrigerant	Туре											R-410A	<i>۱</i>						
	GWP			TCO eq	31		2	3				2,087.5) -	71					
	charge		-	ka	1.5		J. 1.						3	.4					
	Control								E	xpans	ion va	lve (el	ectronic typ	e)					
Sound power level	Heating	Nom.		dBA		61		62		e	54		66		6	4		66	5
Coundance	Cooling	Nom.		dBA		6	3	40	e	54	6	6	69	6	54 -	6	5	69	<u>}</u>
Sound pressure	Heating	Nom.		dBV dBV	10	48	_	49		:0	51	2	52		5	F.	,	52	<u>′</u> 1
Power supply	Name/Phase/Fre	equency/Vo	ltage	Hz/V	-+0	47		V3	/1~/50	/230		۷	54			/1/3N~	- /50/40	0	r
Current	Recommended f		2	Δ		16		20		-	4	0)		

 Current
 Recommended fuses
 A
 16
 20
 40

 (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) Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

EHVH-CB + ERHQ-BV3/BW1





EHVH-CB

ERHQ-BV3

					11518	CB3V /	16518	CB3V /	16518	CB3V /	11518	CB3V /	16S18	CB3V /	16S18	CB3V /
Efficiency data			EHVH	+ ERHQ	115260	CB9W +	16526	CB9W	16526	CB9W	11526	CB9W	16526	SCB9W	16526	CB9W
					011	BV3	+ 014	4BV3	+ 01	6BV3	+ 01	IBW1	+ 014	4BW1	+ 01	5BW1
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)
Domestic hot	General	Declared	load profile		L	XL	L	XL	L	XL	L	XL	L	XL	L	XL
water heating	Average climate	ηwh (water l	heating efficien	cy) %	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 hea	iting energy								Δ					
		efficiency	class													
Space heating	Average climate	General	SCOP		2	.86	2.	82	2.	92	2.	90	2.	.80	2.	96
	water outlet		ηs (Seasona	I %												
-0-	55°C		space heati efficiency)	ng	1	12	1	10	1	14	1	13	10	09	1	15
			Seasonal sp	bace												
			heating eff.	class						P	+					
	Average climate	General	SCOP		2	.99	3.	23	3.	29	3.	08	3.	.34	3.	.33
	water outlet		ηs (Seasona	I %												
	35°C		space heati	ng	1	17	12	26	12	29	12	20	131		1.	30
			efficiency)													
			Seasonal sp	bace		A		A	\ +			A		Δ	+	
			heating eff.	class												
Indoor Unit				сплл	11518	CB3V /	16S18	CB3V /	16S18	CB3V /	11518	CB3V /	16S18	CB3V /	16S18CB3V /	
Indoor Unit				ЕНУН	11526	CB9W	16S26	CB9W	16S26	CB9W	11526	CB9W	16S26	6CB9W	16S26	CB9W
Casing	Colour									W	nite					
	Material								Pr	ecoated	sheet me	etal				
Dimensions	Unit	HeightxWidthxDepth mm				1,732x600x728										
Weight	Unit			kg	117 126 118 128 118 128							126	118	128	118	128
Tank	Water volume			<u> </u>	180	180 260 180 260 180 260 180								260	180	260
	Maximum water	temperatu	re	°C	65											
	Maximum water	pressure		bar						1	0					
0	Corrosion protec	tion	. M	06						An	ode					
Operation range	Heating	water side	e Min.~Max.	-C						15	~55					
Defiinement	Domestic not water	water side	e Min.~Max.	-C						25~6	0/60					
Remgerant	CMP			TCO₂eq						2.0	- 075					
Sound nower level	Nom			dBA		12			14	2,0	67.5	12			1	
Sound pressure level	Nom.			dBA		+2 28			30		2	12			0	
				50110			014	-		D1/2	-		014	D11/4		D11/4
Outdoor Unit	11-14	11	l'althu Dauth	EKHQ	011	BA3	11700	BV3	016	BA3	011	BMI	1.245.46	BMI	016	BMI
Woight	Unit	пеідпіхм	latitxDepth	nini ka			1,1/0.009	00x520 12					1,54585	000000		
Compressor	Quantity			ĸġ)2			1			08		
compressor	Туре							H	lermetica	مادم برالم	ı d scroll c	omnress	or			
Operation range	Cooling	Min ~Max		°CDB					lennetice	10.0/	~46 0	ompress	01			
operation range	Domestic hot water	Min ~Max		°CDB						-20	~35					
Refrigerant	Type	Mini. Miax	•	000						R-4	10A					
nenigerant	Charge			ka			2	.7					3	8.0		
				TCO ₂ eq			5	.6					6	5.3		
	GWP			4 - 1	ĺ		_			2,0	87.5		_			
	Control								Expansi	ion valve	(electro	nic type)				
Sound power level	Heating	Nom.		dBA		6	54		6	6		6	64		6	6
	Cooling	Nom.		dBA	6	54	6	6	6	59	6	64	6	56	6	;9
Sound pressure	Heating	Nom.		dBA	BA 49 51			5	53	51 52			52			
level	Cooling	Nom.		dBA	BA 50 52			2	54 50 52 54			54				
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V			V3/1~/	50/230			W1/3N~/50/400					
Current	Recommended f	ase/Frequency/Voltage H anded fuses				A 32							2	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

EHVZ-CB3V + ERLQ-CV3/ERLQ-CW1



EHVX-CB

ERLQ004CV3

						1	1	,								
Efficiency data			EHVZ +	ERLQ	04S18CB3V	08S18CB3V	08S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V			
					+ 004CV3	+ 006CV3	+ 008CV3	+ 011CV3	+ 014CV3	+ 016CV3	+ 011CW1	+ 014CW1	+ 016CW1			
Heating capacity	Nom.			kW	4.40 (1) /	6.00 (1) /	7.40 (1) /	11.2 (1) /	14.4 (1)/	15.9 (1) /	11.2 (1) /	14.4 (1) /	15.9 (1) /			
D	11	NL		1.14/	4.03 (2)	5.67 (2)	6.89 (2)	11.0 (2)	13.5 (2)	15.1 (2)	11.0 (2)	13.5 (2)	15.1 (2)			
Power input	Heating	Nom.		KVV	0.8/0 (1)/	1.2/ (1)/	1.66 (1)/	2.43 (1) /	3.39 (I)/	3.// (1)/	2.43 (1)/	3.39 (1)/	3.// (1)/			
COD					1.13 (2)	1.59 (2)	2.01 (2)	3.10 (2)	4.12 (2)	4.67 (2)	3.10 (2)	4.12 (2)	4.67 (2)			
COP					F 04 (1) /	4 74 (1) (A AF (1) (4.60 (1)/	4.24 (1)/	4.22 (1)/	4.60 (1)/	4.24 (1)/	4.22 (1) /			
					5.04 (1)/	4./4 (1)/	4.45 (1) /	2./5 (2)/	2.61 (2) /	2.61 (2) /	2.75 (2) /	2.61 (2) /	2.61 (2) /			
					3.58 (2)	3.50 (2)	3.42 (Z)	3.55 (3)/	3.28 (3)/	3.23 (3) /	3.55 (3)/	3.28 (3)/	3.23 (3) /			
Dump Additional Zana	Nominal ECD	Heating		k Da				2.10 (4)	2.05 (4)	2.07 (4)	2.10 (4)	2.05 (4)	2.07 (4)			
Pump Additional Zone	unit (*RLQ*C*)	пеаціну		KPd	52.3 / 55.4	40.6 / 43.3	28.3 / 32.7	26.2 / 28.3	25	5.0	26.2 / 28.3	25	5.0			
Pump Main Zone	Nominal ESP	Heating		kPa	48.6 / 51.9	39.5 / 42.3	26.4 / 31.2	18.2 / 20.7	25	5.0	18.2 / 20.7	25	5.0			
Domestic hot	General	Declared	load profile						1							
water heating	Average climate	nwh (water	heating efficienc	v) %	95.0	8	64			8	74					
	Average enhate	Water hea	ntina enerav	,, ,,	55.0		0.1			0.						
*		efficiency	class						A							
Space heating	Average climate	General	SCOP		3 20	3 22	3 23	3.09	316	3.06	3.09	3 16	3.06			
	water outlet	General	ns (Seasonal	%	5.20	5.22	5.25	5.05	5.10	5.00	5.05	5.10	5.00			
*	55°C		space heatin	a ,o	125	1	26	120	123	119	120	123	119			
•	55 C		efficiency)	9	125		20	120	125		120	125				
			Seasonal sp	ace												
			heating eff.	lass		A++				A	+					
	Average climate	General	SCOP		4.52	4.29	4.34				-					
	water outlet		ns (Seasonal	%												
	35°C		space heatin	a	178	169	171				-					
			efficiency)	5												
			Seasonal sp	ace												
			heating eff.	class		A++					-					
Indoor Unit				EHV7	04518CB3V	0851	RCR3V			16518	CB3V					
Casing	Colour	EHVZ			045100057	White										
cusing	Material				Precoated sheet metal											
Dimensions	Unit	HeightsW	/idthxDenth	mm	1.732x600x728											
Weight	Unit	neightxn	aanxbepar	ka	121	1	22	· · · · · · · · · · · · · · · · · · ·	/ 52/000//2	.0	21					
Tank	Water volume							1	180							
	Maximum water	temperatu	re	℃					65							
	Maximum water	pressure		bar	i				10							
	Corrosion protec	tion							Anode							
Operation range	Heating	Water side	e Min.~Max.	°C	1	15~55				15-	~55					
	Domestic hot water	Water side	e Min.~Max.	°C		25~60				25~6	0/60					
Refrigerant	Charge			TCO₂eq					-							
	GWP								2,087.5							
Sound power level	Nom.			dBA		42				4	4					
Sound pressure level	Nom.			dBA		28				3	0					
Outdoor Unit				ERLQ	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1			
Dimensions	Unit	HeightxW	/idthxDepth	mm		735x832x30	7			1,345x9	00x320					
Weight	Unit			kg	54	5	56		113			114				
Compressor	Quantity							1	1							
	Туре				Hermeticall	y sealed swing	j compressor		Hermet	ically seale	d scroll com	pressor				
Operation range	Cooling	Min.~Max	ά.	°CDB		10.0~43.0				10.0~	~46.0					
	Domestic hot water	Min.~Max	ά.	°CDB	-2	5 (2.000~35	(2			-20 (2.00	00~35 (2					
Refrigerant	Туре								R-410A							
	GWP					-	-	1	2,087.5		_					
	Charge		_	ICO ₂ eq	3.1	3	.3			7	.1					
	Control			kg	1.5	1	.0	E		3	.4					
Cound as see 1	Control	Naw		ه مار		•1	(2)	Expansion	vaive (elect	ronic type)		1/2	6612			
sound power level	reating	Nom.		dBA	e		62	64	(3	66 (3	64	13	66 (3			
Cound pressure	Looting	Nom.		dBA		63 (2	40.72	64 (4	00 (4	69 (4 52 (5	64 (4	66 (4	69 (4 52 (5			
Journa pressure	Cooling	Nom		UBA	48 /2	40.0	49 (3	51	(J 52/5	52 (S	50 /5	5	52 (S			
Power cupply	Namo/Phase/Fre		ltago		48 (3	49 (3	5U (3	5U (5	52 (5	54 (5	50 (5	52 (5	54 (5 00			
	Recommanded	equency/ VC	ntage	ΠZ/ V	1	6	20	50/250	10		VV	אוכ <i>ו</i> ו 20	00			
carrent	neconnienueui	4363		~	1	~	20		-10			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

EHVX-CB + ERHQ-BV3/BW1





EHVX-CB



ERLQ004CV3

ERHQ-BV3

					11518	BCB3V	1651	BCB3V	16S1	8CB3V	1151	BCB3V	16518	BCB3V	16518	BCB3V
Efficiency data			EHVX	+ ERHQ	/ 1152	6CB9W	/1652	6CB9W	/ 1652	26CB9W	/ 11S2	6CB9W	/1652	6CB9W	/ 1652	6CB9W
-					+ 01	1BV3	+ 01	4BV3	+ 0	16BV3	+ 01	1BW1	+ 014	4BW1	+ 01	6BW1
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)
EEK	C	Dealand			3.60 (1)	/ 2./1 (2)	2.95 (1)	/ 2.32 (2)	2.59 (1) / 2.20 (2)	3.32 (1)	/ 2./2 (2)	2.96 (1)	/ 2.4/ (2)	2./2(1)	/ 2.29 (2)
Domestic hot	General	Declared	load profile		L	XL 05.2	L	XL	L	XL 05.2	L	XL	L	XL	L	XL
water heating	Average climate	Nater heati	ng energy efficie	cy) % ency class	90.5	95.3	90.5	95.3	90.5	95.3	84.3 A	87.3	84.3	87.3	84.3	87.3
Space heating	Average climate	General	SCOP		2	.86	2	.82		2.92	2	.90	2.	.80	2.96	
	water outlet		ηs (Seasona	I %												
*	55°C		space heati	ng	1	112		10		114		113	10	09	1	15
			efficiency)	-												
			Seasonal sp	bace	i											
			heating eff	class						/	4+					
	Average climate	General	SCOP		2	.99	3	.23	3	3.29	3	.08	3.	.34	3.33	
	water outlet		ηs (Seasona	I %	1											
	35°C		space heati	ng	· ·	117	1	26		129	1	20	1	31	1	30
			efficiency)													
			Seasonal sp	bace	1											
			heating eff	class		A		ŀ	\ +			A		F	A+	
Indoor Unit				EHVX	11S18 / 11S2	BCB3V 6CB9W	16S1	BCB3V 6CB9W	16S1 / 16S2	8CB3V 26CB9W	11S18 / 11S2	BCB3V 6CB9W	16S18 / 16S2	BCB3V 6CB9W	16518 / 1652	3CB3V 6CB9W
Casing	Colour				/		,		,	W	hite		,		,	
	Material								Р	recoated	sheet m	etal				
Dimensions	Unit	HeightxW	/idthxDepth	mm						1,732x6	500x728					
Weight	Unit			kg	119	128	120	130	120	130	119	128	120	130	120	130
Tank	Water volume				180	180 260 180 260 180 260 180 260 180 260 180 260									180	260
	Maximum water	temperatu	ire	°C							65					
	Maximum water	pressure		bar							10					
-	Corrosion protec	ction								An	ode					
Operation range	Heating	Water sid	e Min.~Max.	°C						15	~55					
	Cooling	Water sid	e Min.~Max.	<u>َ</u>						5	~22					
Defilment	Domestic not water	water sid	e Min.~Max.	-C						25~6	50/60					
Remgerant				TCO ₂ eq						20	-					
Sound nowor loval	Nom			d٩٨		10			1.4	2,0	167.5	10			1	
Sound pressure level	Nom					4 <u>2</u> 78			14 20			42 28		-	14 10	
Journa pressure rever	Nom.			ubri		20						20				
Outdoor Unit				ERHQ	011	IBV3	014	IBV3	01	6BV3	011	BW1	014	BW1	016	BW1
Dimensions	Unit	HeightxW	VidthxDepth	mm	ļ		1,170x9	900x320					1,345x9	900x320		
Weight	Unit			kg				02			1		10	08		
Compressor	Quantity										l al a ava ll s					
Operation range	Type	Min Max		°CDP	Hermetically sealed scroll compressor											
operation range	Domestic hot water	Min ~ Max	κ. ν	°CDB	DB 10.0~46.0											
Refrigerant	Type	wiiii wia/	.	CDD	DD -20~55											
Reffigerant	Charge			ka	1			7			+10/1		3	0		
	enarge		kg 2.7								6	i 3				
	GWP	ICO ₂ eq								2.0	87.5					
	Control				i				Expan	sion valve	e (electro	nic type)				
Sound power level	Heating	Nom.		dBA	i		64			66		6	54		e	56
	Cooling	Nom.		dBA		64		56		69		64	6	66	e	59
Sound pressure	Heating	Nom.		A 49 51 53 51					51			52				
level	Cooling	Cooling Nom. dB				dBA 50 52 54 50 52					54					
Power supply	Name/Phase/Fre	equency/Vo	oltage	Hz/V	Hz/V V3/1~/50/230 W1/3N~/50					~/50/400						
Current	Recommended	A	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



EHSH-A + ERLQ-CV3/CW1

EHSH04-08P30A

EHSH08-16P50A ERLQ004-008CV3

Efficiency data			EHSH	+ ERLQ	04P30A + 004CV3	08P30A + 006CV3	08P50A + 006CV3	08P30A + 008CV3	08P50A + 008CV3	16P50A + 011CV3	16P50A + 014CV3	16P50A + 016CV3	16P50A + 011CW1	16P50A + 014CW1	16P50A + 016CW1	
Heating capacity	Nom.			kW	4.53(1) /					11.80(1) /	14.81(1) /	15.34(1) /	11.80(1) /	14.81(1) /	15.34(1) /	
					3.98(2) /	6.06(1)/	5.78(2) /	7.78(1) /	7.27(2) /	10.40(2) /	13.73(2) /	14.86(2) /	10.40(2) /	13.73(2) /	14.86(2) /	
					4.26(3) /	5.14(3) /	4.60(4)	5.53(3)	/ 5.51(4)	5.95(3) /	8.28(3) /	8.04(3) /	5.95(3) /	8.28(3) /	8.04(3) /	
					3.47(4)					7.74(4)	9.57(4)	10.05(4)	7.74(4)	9.57(4)	10.05(4)	
Power input	Heating	Nom.		kW	0.87(1) /					2.57(1) /			2.57(1) /	3.42	2(1) /	
	5				1.04(2) /	1.30(1) /	1.58(2) /	1.69(1) /	2.04(2) /	3.13(2) /	3.42(1) /	4.07(2) /	3.13(2) /	4.07	⁷ (2) /	
					1.49(3) /	1.88(3)	/ 1.26(4)	1.98(3)	/ 1.56(4)	2.43(3) /	3.17(3) /	(2.93(4)	2.43(3) /	3.17	(3) /	
					0.85(4)					2.35(4)			2.35(4)	2.9	3(4)	
COP					5.23(1) /					4.38(1) /	4.27(1) /	4.10(1) /	4.38(1) /	4.27(1) /	4.10(1) /	
					3.84(2) /	4.65(1) /	3.66(2) /	4.60(1) /	3.57(2) /	3.32(2) /	3.34(2) /	3.22(2) /	3.32(2) /	3.34(2) /	3.22(2) /	
					2.85(3) /	2.73(3) /	/ 3.64(4)	2.78(3)	/ 3.54(4)	2.45(3) /	2.58(3) /	2.44(3) /	2.45(3) /	2.58(3) /	2.44(3) /	
					4.07(4)					3.29(4)	3.22(4)	3.15(4)	3.29(4)	3.22(4)	3.15(4)	
Domestic hot	General	Declared I	oad profile			L	XL	L				XL				
water heating	Average climate	ղwh (wate	er heating	%	103	98	102	90	96			g	3			
♣		efficiency)			105	,0	102		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
-		Water hea	ting energy							۵						
		efficiency	class													
Space heating	Average climate	General	ηs (Seasonal	%												
*	water outlet 55°C		space heating		130	12	25	12	27	125	126	12	25	126	125	
			efficiency)													
			Seasonal space	heating						A++						
			eff. class													
	Average climate	General	ηs (Seasonal	%												
	water outlet 35°C		space heating							-						
			efficiency)	1												
			Seasonal space	eheating						-						
			ell. Class													
Indoor Unit	Cili			EHSH	04P30A	08P30A	08P50A	08P30A	08P50A	001() (D		16P	50A			
Casing	Colour					Iramic white (RAL9016) / Dark grey (RAL7011)										
Dimensions	Material	11	:		1045	Impact resistant polypropylene							00			
Dimensions	Unit	Heightxw	lathxDepth	mm	1,945X0	1,945x615x595 1,945x790x790 1,945x615x595 1,945x790x							90			
weight	Weterselvere			кд	2	57 DO	500	8/	114	500						
Тапк	Water volume			۔ د		00	500	300		05		500				
Operation range	Hosting	Ambiont	Min . Max	ر			2525			65		25				
Operation range	Heating	Water cide	MinMax	<u>د</u>			-23~23			1555		-23	~55			
	Domestic hot	Ambient	Min «Max.	°CDB						-25~35						
	water	Water side	Min.~Max.	°C						25~55						
Refrigerant	Type	water side	. WIII. WUX.							R-410Δ						
nemgerunt	Charge			ka	15		1	6				3	4			
	charge			TCOseq	1.5			.0		-		5				
	Control							Flec	tronic ex	nansion v	alve / Inve	erter				
	GWP									2.087.5						
Sound power level	Nom.			dBA						40						
Sound pressure level	Nom.			dBA						28						
OutdoorUnit				EDLO	00461/2	006	CV/2	000	CV2	011CV2	01461/2	01661/2	01101/1	014CW1	016CW1	
Dimensions	Unit	HeightyW	idthyDepth	ENLQ	004003	73	25282722	07	CVS	UTICVS	0140.03	13/5-0	00v320	0140101	UICCWI	
Weight	Unit	Theightaw	lutilixDeptil	ka	54	/.	55705275	56			112	1,34373	007320	11/1		
Compressor	Quantity			ĸy	54			0		1	115			114		
compressor	Type				Herm	netically s	ealed swi	na compr	assor	-	Hermetic	مالد معام	d scroll co	mnresso		
	Cooling	Min ~Max		°CDB	nem	ictically s	10.0~43.0	ng compi)	03301		nenneue	10.0~	-46 0	mpressor		
operation range	Domestic hot water	Min ~Max	•	°CDB			-25~35	,				-20	~35			
Refrigerant	Type	Willin Wildx	•	000			25 55			R-410A		20	33			
nemgerant										2.087.5						
	Charge			TCOpeq	31		3	3		2,00,10		7	1			
				kg	1.5		1	.6				3	.4			
	Control					,		Ex	pansion v	alve (eleo	tronic typ	oe)				
Sound power level	Heating	Nom.		dBA		61		6	2	6	64	66	6	4	66	
	Cooling	Nom.		dBA			63			64	66	69	64	66	69	
Sound pressure	Heating	Nom.		dBA		48		4	9	5	51	52	5	51	52	
level	Cooling	Nom.		dBA	48	4	9	5	0	50	52	54	50	52	54	
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V				V3/1~/	50/230				W1	/3N~/50/4	400	
Current	Recommended f	uses		A		16		2	0		40			20		
(1) II T 9595 1115	108C (DT 58C)	TODATO		ENC (DT	ED(C) (D)	I T accor		DT FOC					~ \			

(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: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases



EHSHB-A + ERLQ-CV3/CW1

EHSHB04-08P30A

EHSHB08-16P50A

ERLQ004-008CV3

Efficiency data			EHSHB	+ ERLQ	04P30A + 004CV3	08P30A +	+ 08P50A + 006CV3	08P30A +	+ 08P50A + 008CV3	16P50A + 011CV3	16P50A + 014CV3	16P50A + 016CV3	16P50A + 011CW1	16P50A + 014CW1	16P50A + 016CW1
Heating capacity	Nom.			kW	4.53(1)/3.98(2)/	6.06 (1)	/ 5.78 (2) /	7.78 (1)	/ 7.27 (2) /	11.80(1)/10.40(2)) 14.81(1)/13.73(2)	15.34(1)/14.86(2)	11.80(1)/10.40(2)	14.81(1)/13.73(2)	15.34(1)/14.86(2)
Power input	Heating	Nom.		kW	4.26(3)/3.4/(4) 0.87(1)/1.04(2)/	5.14 (3)	/ 4.60 (4) / 1.58 (2) /	5.53 (3)	/ 5.51 (4)	/5.95(3)/7.74(4) 2.57(1)/3.13(2)/	/8.28(3)/9.5/(4) 3.42 (1) /	(/8.04(3)/10.05(4) (4.07 (2) /) /5.95(3)/7.74(4) 2.57(1)/3.13(2)/	78.28(3)/9.57(4) 3.42 (1) /	4.07 (2) /
COP					5 23(1)/2 84(2)/	1.88 (3)	/ 1.26 (4)	1.98 (3)	/ 1.56 (4)	2.43(3)/2.35(4) 4 38(1)/3 32(2)/	3.17 (3) / 4 27/11/3 34/21/	(2.93 (4) 410(1)/3.22(2)	2.43(3)/2.35(4) 4 38(1)/3 32(2)/	3.17 (3)	/ 2.93 (4) / 410(1)/3 22(2)/
cor					2 85(3)/4 07(4)	2,73 (3)	/ 3.64 (4)	2.78 (3)	/ 3.54 (4)	2 45(3)/3 29(4)	2 58(3)/3 22(4)	/2 44(3)/3 15(4)	2 45(3)/3 29(4)	2 58(3)/3 22(4)	2 44(3)/3 15(4)
Domestic hot	General	Declared I	oad profile		2.00(0)/ 1.07(1)	L	XL	L./ C (3)	/ 515 1 (1)	2110(0)/0129(1)	12100(0)/0122(1)	XL	1 2110(0)/0129(1)	12100(0)/ 0122(1)	2111(0)/010(1)
water heating	Average climate	ηwh (water he	ating efficiency)	%	103	98	108	90	99			8	34		
		Water hea	ting energy							۸					
		efficiency	class							A					
Space heating	Average climate	General	ηs (Seasona	al %											
	water outlet 55°C		space heati	ng	130	1	25	1	27	125	126	1.	25	126	125
-			efficiency)												
			Seasonal s	bace						A++					
	Average allocate	Cananal	heating eff	. class											
	Average climate	General	ηs (Seasona	al %											
	water outlet 35 C		space neati	ng						-					
			Seasonal si	220											
			heating eff	class						-					
			neating ch	. cluss	1										
Indoor Unit	<u> </u>			EHSHB	04P30A	08P30A	08P50A	08P30A	08P50A			16P	250A		
Casing	Colour							Iraffic	white (RAI	L9016) / D	ark grey (RAL7011)			
Dimonsions	Material	Hoighty/M	idthyDonth		1045.	(15	1045 700 700		mpact res	istant pol	lypropylei	ne	70.0		
Woight	Unit	пеідпіхі	latitxDepth	- mm	1,945X	2622210	1,945X/90X/90	0 1,945X015X595	110	1	1,5	45X/90X/	/90 ว1		
Tank	Watervolume			- KY	2	9Z 00	500	92	119			500	21		
Idlik	Maximum water	temperatu	re	۔ ℃	<u> </u>										
Operation range	Heating	Amhient	Min ~Max	<u>۰</u>	-25~25 -25~35										
operation range	ricuting	Water side	Min ~Max.	ر	15~55										
	Domestic hot	Ambient	Min.~Max.	°CDB	-25~35										
	water	Water side	e Min.~Max.	°C						25~55					
Refrigerant	Туре									R-410A					
5	Charge			kg	1.5		1	1.6				3	8.4		
				TCO₂eq	i					-					
	Control							Ele	ctronic ex	pansion v	alve / Inv	erter			
	GWP									2,087.5					
Sound power level	Nom.			dBA						40					
Sound pressure level	Nom.			dBA						28					
Outdoor Unit				ERLQ	004CV3	006	6CV3	008	BCV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxW	idthxDepth	mm		7	735x832x3	07				1,345x9	900x320		
Weight	Unit			kg	54		5	56			113			114	
Compressor	Quantity									1					
	Туре				Hern	netically	sealed swi	ing comp	ressor		Hermetic	ally seale	d scroll co	ompresso	r
Operation range	Cooling	Min.~Max	•	°CDB			10.0~43.0)				10.0	~46.0		
D. (i	Domestic hot water	Min.~Max	•	°CDB			-25 .000~3	35				-20 .0	00~35		
Refrigerant	Туре									R-410A					
	GWP			TCO	21		-			2,087.5			71		
	Charge			TCO₂eq	3.1		1	3.3				/	/.1		
	Control			ĸġ	1.5			I.U Ex	vnancion	alve (ele	ctropic ty	3 ne)	.4		
Sound nower level	control rel Heating Nom. dB					61		E)	4201131011 V 62		54	pe) 66	4	4	66
sound power level	Cooling	Nom		dBA		01	63		02	64	66	69	64	66	60
Sound pressure	Heating	Nom.		dBA		48	05		49		51	52	1	51	52
level	Cooling	Nom.		dBA	48		49		50	50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage Hz/					Hz/V V3/1~/50/230 W1/3N~					/3N~/50/	400			
Current	Recommended f	A	A 16 20 40 2						20						
														-	

(I) 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: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases





EHSXB-A + ERLQ-CV3/CW1

EHSXB08-16P50A

EHSXB04-08P30A

ERLQ004-008CV3

Efficiency data			FHSYR.		04P30A +	- 08P30A +	- 08P50A +	08P30A -	+ 08P50A +	16P50A +	16P50A +	16P50A +	16P50A +	16P50A +	16P50A +
Enteriety data			EIISAD		004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Heating capacity	Nom.			kW	4.53(1)/3.98(2)	6.06 (1)	/ 5.78 (2) /	7.78 (1)	/ 7.27 (2) /	11.80(1)/10.40(2)	14.81(1)/13.73(2)	15.34(1)/14.86(2)	11.80(1)/10.40(2)	14.81(1)/13.73(2)	15.34(1)/14.86(2)
					/4.26(3)/3.47(4	5.14 (3)	/ 4.60 (4)	5.53 (3)) / 5.51 (4)	/5.95(3)/7.74(4)	/8.28(3)/9.57(4)	/8.04(3)/10.05(4)	/5.95(3)/7.74(4)	/8.28(3)/9.57(4)	/8.04(3)/10.05(4)
Cooling capacity	Nom.			kW	4.4(1)/4.0(2))	5.2 (1)	/ 4.6 (2)	(0.0.1/0) /	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.		KVV	0.8/(1)/1.04(2)	1.30 (1)	(1.58 (2) /	1.69 (1)	/ 2.04 (2) /	2.5/(1)/3.13(2)	3.42 (1) /	4.07 (2) /	2.5/(1)/3.13(2)	3.42 (1) /	4.07 (2) /
	Caalina	Name		1.34/	/1.49(3)/0.85(4	1.88 (3)	/ 1.26 (4)	1.98 (3)	/ 1.56 (4)	/2.43(3)/2.35(4)	3.17 (3)	(2.93 (4)	/2.43(3)/2.35(4)	3.17 (3)	/ 2.93 (4)
COP	Cooling	NOM.		KVV	5 23/1)/2 8/1/2	4 65 (1)	1.43 (1)	/ 1.85 (2)	/ 3 57 (2) /	4.55(1)/4.50(2)	5.44(1)/5.10(2) A 27(1)/2 2A(2)	0.18(1)/5./2(2)	4.55(1)/4.50(2)	5.44(I)/5.IU(2) A 27/I\/3 34/2)	0.18(1)/5.72(2)
COI					/2 82(3)/4 07(4)	2 73 (3)	/ 3.60 (2) /	2 78 (3)	/ 3.5/ (2) /	/2 /2(2)/2 20(/)	() 58(3)/2 22(4)	10(1)/ 3.22(2) /2 // // (2)/2 15(/)	/2 /2(1)/3.32(2)	/2 58(3)/2 22(4)	10(1)/ J.22(2) /2 ///(2)/2 15(/)
EER					4.21(1)/2.85(2)	2.75(5)	3.65 (1)	/ 2.51 (2)	7 3.34 (4)	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)
Domestic hot	General	Declared I	oad profile			L	XL	L			=== = (+µ ==+ + (=)	XL			
water heating	Average climate	ηwh (water h	neating efficiend	cy) %	103	98	108	90	99			8	4		
		Water hea	ting energy							۸					
*		efficiency	class							A					
Space heating	Average climate	General	ηs (Seasona	I %											
	water outlet 55°C		space heatir	ng	132	1	26		128		130	127	128	130	127
			efficiency)												
			Seasonal sp	ace						Δ++					
			heating eff.	class											
	Average climate	General	ηs (Seasona	I %											
	water outlet 35°C		space heatin	ng						-					
			efficiency)												
			Seasonal sp	ace						-					
			neating en.	Class						1					
Indoor Unit	Cala			EHSXB	04P30A	08P30A	08P50A	08P30A	08P50A	001() (D		16P	50A		
Casing	<u>Colour</u> Material							Iramc	White (KAI	19016) / D	ark grey (RAL/UII)			
Dimensions	Unit	HeightxW	idthxDepth	mm	1.945x	615x595	1.945x790x790	1.945x615x59	5	istant poi	1.9	945x790x7	90		
Weight	Unit	J		kg	9	92	119	92	119			1:	21		
Tank	Water volume				3	00	500	300				500			
Operation range	Maximum water	temperatu	re Min Max	°C			25 25			85		25	25		
Operation range	пеаціну	Water side	Min.~Max.	ر			-23~23			15~55		-25	~55		
	Cooling	Ambient	Min.~Max.	°CDB						10~43					
		Water side	e Min.~Max.	°C			5~22					-/	~-		
	Domestic hot	Ambient	Min.~Max.	°CDB						-25~35					
Defrigerant	water	Water side	e Min.~Max.	℃						25~55 D 410A					
Reingerant	Charge			ka	1.5		1	6		R-410A		3	4		
			-	TCO ₂ eq						-					
	Control							Ele	ctronic ex	pansion v	alve / Inv	erter			
<u></u>	GWP									2,087.5					
Sound pressure level	Nom.									28					
Outdoor Unit				EDLO	00461/2	004	CV/2	0.0		01101/2	01461/2	016 CV2	011CW1	0140141	016CW1
Dimensions	Unit	HeightxW	idthxDepth	mm	004003	7	735x832x3	07	0003	UNCVS	014003	1.345x9	00x320	0140.001	UICCWI
Weight	Unit	neignaan	ia inte option	kg	54		55/(052/15	56			113	1,0 10/10		114	
Compressor	Quantity									1					
Operation range	Type	Min May		°CDB	Herr	netically	sealed swi	ing comp	ressor		Hermetic	ally seale	d scroll co	mpresso	r
Operation range	Domestic hot water	Min ~Max	•	°CDB			-25~35)				-20	~40.0		
Refrigerant	Type	Min. Max	•				23 33			R-410A		20	55		
5	ĠŴP									2,087.5					
	Charge		-	TCO₂eq	3.1		3	3.3				7	.1		
	Control			kg	1.5		1	.0	vnancion	alve (elec	ctropic ty	<u>3</u>	.4		
Sound power level	Heating	Nom.		dBA		61			7001151011 V 62	F	54	66	6	4	66
	Cooling	Nom.		dBA			63		-	64	66	69	64	66	69
Sound pressure	Heating	Nom.		dBA		48			49	1	51	52	5	51	52
level	Cooling	Nom.		dBA	48	·	49	<u> </u>	50	50	52	54	50	52	54
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V		16		V3/1~	/50/230	1	40		W1	/3N~/50/	400
Current	Recommended 1	uses		A	1	16			20	1	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: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases







EHSX04-08P30A

EHSX08-16P50A

ERLQ004-008CV3

					04P30A +	08P30A +	08P50A +	08P30A +	08P50A +	16P50A +	16P50A +	16P50A +	16P50A +	16P50A +	16P50A +				
Efficiency data			EHSX	+ ERLQ	004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1				
Heating capacity	Nom			kW	4 53 (1) /		000015		000015	11.80 (1) /	14 81 (1) /	15 34 (1) /	11.80 (1) /	14.81(1)/	15 34 (1) /				
riculing capacity					3.98 (2) /	6.06 (1)	(578(2)/	7 78 (1)	777(2)/	10 40 (2) /	13 73 (2) /	14.86 (2) /	10.40 (2) /	13 73 (2) /	14.86 (2) /				
					1 26 (3) /	5 14 (3)	/ 1 60 (1)	5 53 (3)	/ 5 51 (1)	5 05 (3) /	8 28 (3) /	8 04 (3) /	5 05 (3) /	8 28 (3) /	8 0 / (3) /				
					2 47 (4)	5.14 (5) /	/ 4.00 (4)	5.55 (5)	/ 5.51 (4)	J.95 (J) / 774 (A)	0.20 (3) /	10.05 (4)	J.JJ (J) /	0.20 (3) /	10.05 (4)				
Cooling capacity	Nom			kW	4 4 (1) /					15.1 (1) /	16.1 (1) /	16.8 (1) /	15.1 (1) /	16.1 (1) /	16.8 (1) /				
cooling capacity					40(2)		5.2 (1)	/ 4.6 (2)		11 7 (2)	12 6 (2)	13.1 (2)	11 7 (2)	12.6 (2)	13 1 (2)				
Power input	Heating	Nom.		kW	0.87 (1) /					2.57 (1) /	12.0 (2)	13.1 (2)	2.57 (1) /	12.0 (2)	1 3. 1 (2)				
					1.04 (2) /	1.30 (1) /	1.58 (2) /	1.69 (1) /	2.04 (2) /	3.13 (2) /	3.42 (1) /	4.07 (2) /	3.13 (2) /	3.42 (1) /	4.07 (2) /				
					149(3)/	1.88 (3)	/126(4)	198 (3)	/156(4)	2 43 (3) /	3 17 (3)	(293(4)	2 43 (3) /	3 17 (3)	(2.93.(4)				
					0.85 (4)	1.00 (3)	/ 1.20 (1)	1.50 (5)	1.90 (5) / 1.50 (4)		5.17 (5) /	2.55 (1)	2.13(3)))					
	Cooling	Nom.		kW	1.05 (1) /					4.55 (1) /	5.44 (1) /	6.18 (1) /	4.55 (1) /	5.44 (1) /	6.18 (1) /				
	coomig				1 41 (2)		1.43 (1)	/ 1.85 (2)		4 30 (2)	5 10 (2)	5 72 (2)	4 30 (2)	510 (2)	5 72 (2)				
COP					5.23 (1) /					4.38 (1) /	4.27 (1) /	4.10 (1) /	4.38 (1) /	4.27 (1) /	4.10 (1) /				
					3.84 (2) /	4.65 (1) /	3.66 (2) /	4.60 (1)	3.57 (2) /	3.32 (2) /	3.34 (2) /	3.22 (2) /	3.32 (2) /	3.34 (2) /	3.22 (2) /				
					2.85(3)/	2 73 (3)	/ 3 64 (4)	2 78 (3)	/ 3 54 (4)	2 45 (3) /	2 58 (3) /	2 44 (3) /	2 45 (3) /	2 58 (3) /	2 44 (3) /				
					4 07 (4)	2.75 (3)	, 5.0 (()	2.70 (3)	, 5.5 (()	3 29 (4)	3 22 (4)	3 15 (4)	3 29 (4)	3 22 (4)	3 15 (4)				
FFR					4.21(1)/					3 32 (1) /	2.96 (1) /	2.72 (1) /	3.32 (1) /	2.96 (1) /	2.72 (1) /				
					2.85 (2)		3.65 (1)	/ 2.51 (2)		2,72 (2)	2 47 (2)	2,29 (2)	2,72 (2)	2 47 (2)	2.29(2)				
Domestic hot	General	Declared I	load profile		2.05 (2)	L	XL	L		2., 2 (2)	_ , (_)	XL	202(2)	2.1.7 (2)	2123 (2)				
water heating	Average climate	nwh (water l	heating efficien	cy) %	103	98	102	90	96			8	3						
	5	Water hea	ting energy									_	-						
*		efficiency	class							A									
Space heating	Average climate	General	ns (Seasona	%	1														
	water outlet 55°C		space heati	na	132	1	26		128		130	127	128	130	127				
*	nater sufferss e		efficiency)						.20		.50	/	.20		/				
•			Seasonal sr	bace															
		heating eff class								A++									
	Average climate	General	ns (Seasona	1 %	1														
	water outlet 35°C		space heati	na															
	Water bullet 55 c		efficiency)	ing															
			Seasonal sr	bace															
			heating eff	class						-									
			ficating ch																
	Colour			EH2Y	04P30A	08P30A	USPOUA	Troffice	USPSUA	0016) / Dr	arle grove (f	10P:	5UA						
Casing	Material							Iranic	mille (RAL	(10) / Da	ark grey (r	AL/UII)							
Dimensions	Unit	HeightyW	lidthyDepth	mm	1045%	15v505	1045-700-700	1045y615y505	Inpactresi	stant poly	1 0	1C 45v700v7	00						
Weight	Unit	Theight	lutilizeptil	ka	1,94580	7	1,9438/908/90	07	11.4	1,943X/90X/90									
Tank	Water volume			<u>ہم</u>	3(57 10	500	300	114			500	0						
Idlik	Maximum water	tomnoratu	ro	ا ℃		50	300	300		95		300							
Operation range	Heating	Ambient	Min ~Max	ر د			25.25			65		25	.25						
operation range	ricuting	Water side	Min. Max.	<u>۰</u>			-2323			15~55		-25	-55						
	Cooling	Ambient	Min ~Max.	°CDB						10~/13									
	cooling	Water side	Min. Max.	°C			5~22			10-45									
	Domestic hot	Ambient Min.~Max. °CDB					J-22			-25~35									
	water	Water side	Min. Max.	°C						25~55									
Refrigerant	Type	mater side	2 11111. 1110.							R-410Δ									
nenigerant	Charge			ka	15		1	6				3	4						
	enarge			TCOpen	1.5	2.087.5													
	Control							Flee	tronic exi	ansion v	alve / Inve	orter							
	GWP																		
Sound power level	Nom.			A 40															
Sound pressure level	Nom.			dBA	1					28									
A 1 1 1																			
Outdoor Unit	11.21	11.1.1.1.1.1.1.1.1		ERLQ	004CV3	006		008	SCV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1				
Dimensions	Unit	Heightxw	lathxDepth	mm		/	35x832x3	0/				1,345x9	00x320						
weight	Unit			кд	54		5	6		-	113			114					
Compressor	Quantity				<u> </u>					1									
-	lype	уре					mermetically sealed swing compressor mermetically 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	lype								R-410A										
	GWP						2,087.5												
	Charge TCO ₂ eq				3.1	3.1 3.3 7.1													
				kg	1.5		1	.6				3.	.4						
<u> </u>	Control							Ex	pansion v	alve (elec	tronic typ	oe)							
Sound power level	Heating	Nom.		dBA		61		6	52	6	4	66	6	4	66				
	Cooling	Nom.		dBA	ļ		63			64	66	69	64	66	69				
Sound pressure	Heating	Nom.		dBA		48		4	19	5	1	52	5	1	52				
level	Cooling	Nom.	1.	dBA	48	Z	19	5	50	50	52	54	50	52	54				
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V				V3/1~/	/50/230				W1	/3N~/50/4	400				
Current	Recommended f	uses		A		16		2	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: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases



EHBH-CB + ERLQ-CV3/CW1





EHBH-CB

ERLQ004CV3

Efficiency data			EHBH + ER	LQ	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.		I	kW	4.40 (1)	6.00 (1) /	7.40 (1) /	11.2 (1) /	14.5 (1) /	16.0 (1) /	11.2 (1) /	14.5 (1) /	16.0 (1) /	
					/ 4.03 (2)	5.67 (2)	6.89 (2)	11.0 (2)	13.6 (2)	15.2 (2)	11.0 (2)	13.6 (2)	15.2 (2)	
Power input	Heating	Nom.	I	kW	0.870 (1)	1.27 (1) /	1.66 (1) /	2.43 (1) /	3.37 (1) /	3.76 (1) /	3.42 (1) /	3.37 (1) /	3.76 (1) /	
					/ 1.13 (2)	1.59 (2)	2.01 (2)	3.10 (2)	4.10 (2)	4.66 (2)	4.21 (2)	4.10 (2)	4.66 (2)	
COP					5.04 (1)	4.74 (1) /	4.45 (1) /	4.60 (1) / 2.75 (2) /	4.30 (1) / 2.65 (2) /	4.25 (1) / 2.64 (2) /	4.60 (1) / 2.75 (2) /	4.30 (1) / 2.65 (2) /	4.25 (1) / 2.64 (2) /	
					/ 3.58 (2)	3.56 (2)	3.42 (2)	3.55 (3) / 2.10 (4)	3.32 (3) / 2.08 (4)	3.26 (3) / 2.09 (4)	3.55 (3) / 2.10 (4)	3.32 (3) / 2.08 (4)	3.26 (3) / 2.09 (4)	
Domestic hot	General	Declared	load profile						-					
water heating	Average climate	ηwh (water heating efficiency) %							-					
	-	Water heating energy efficiency class		lass					-					
Space heating	Average climate	General	SCOP		3.20	3.22	3.23	3.09	3.16	3.06	3.09	3.16	3.06	
	water outlet		ns (Seasonal	%										
*	55°C		space heating		125 1		26	120	123	119	120	123	119	
			efficiency)											
			Seasonal space		A++					Α				
	Average climate	General	SCOP	5	4.52	4 29	4 34	3.98	3.90	3.80	3.98	3.90	3.80	
	water outlet 35°C		ηs (Seasonal space heating efficiency)	%	178	169	171	156	153	149	156	153	149	
			Seasonal space heating eff. class	s			A++			A+	A++		A+	

Indoor Unit			EHBH	04CB3V 08CB3V/9W		08CB3V/9W		11CB3	3V/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			45	44 4	5 4	3	44	45	44	45
Operation range	Heating	°C		15~55 15~55															
	Domestic hot water	°C		2	25~80)							25~80						
Refrigerant	Charge		TCO₂eq									-							
	GWP									2	,087.5								
Sound power level	Nom.		dBA	40					41 44						41 4			4	
Sound pressure level	el Nom.		dBA	26				2	27 30					27 3		0			
Outdoor Unit			ERLQ	004CV3	006	CV3	008	SCV3	011	CV3	0140	CV3	016CV	3 (11CW1	014	CW1	0160	CW1
Dimensions	Unit	HeightxWidthxDepth	mm		735	x832x3	307		1,345x900x320										
Weight	Unit		kg	54	54 56				113						114				
Compressor	Quantity			<u> </u>															
	Туре			Herme	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	ater Min.~Max. °CD			-25~35 -20~35														
Refrigerant	Туре		R-410A																
	GWP							2,087.5											
	Charge		TCO₂eq	3.1 3.3					7.1										
			kg	1.5	1.5 1.6				3.4										
	Control								E	Expansion valve (electronic type)									
Sound power level	Heating	Nom.	dBA	61		6	52	6		54 6		66			64		6	6	
	Cooling	Nom.	dBA	63		63			6	54	66	5	69		64	6	56	6	9
Sound pressure	Heating	Nom.	dBA		48		4	19	5		51		52		5			5	2
level	Cooling	Nom.	dBA	48 49		9	5	50	50 52		2	54		50		52	5	4	
Power supply	Name/Phase/Fre	Hz/V					V3/	1~/50/	/230						W1/3N~/50/400				
Current	Recommended f	Α	1	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) Ta DB -7°C (RH85%) - LWC 35°C (4) Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases
Daikin Altherma low temperature split

EHBH-CB + ERHQ-BV3/BW1





EHBH-CB

ERHQ-BV3

Efficiency data			EHBH -	+ ERHQ	11CB3V/9W	16CB3V/9W	16CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W
Heating capacity	Nom			k\M/	+ UIIBV3	+ UI4BV3	+ UIOBV3	+ UIIBWI	+ UI4BWI	+ UIOBWI
	Heating	Nom		KVV	11.2(1)/10.3(2)	14.0 (1) / 15.1 (2)	10.0(1) / 15.2(2)	11.3(1) / 11.0(2)	14.5 (1) / 15.0 (2)	2.92 (1) / 15.1 (2)
cop	пеаціну	NOM.		KVV	2.55 (1) / 5.17 (2)	3.20 (1) / 4.04 (2)	5.92 (1) / 4./5 (2)	2.05 (1) / 5.24 (2)	5.42 (1) / 4.21 (2)	5.62 (1) / 4.09 (2)
Domostic hot	Conoral	Declared	load profile		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)
water beating		Declared		04				-		
water neating	Average climate	nwn (water ne	eating efficiency)	% 				-		
Coace beating	Average climate	Conoral	ng energy enicle	ency class	2.96	2.02	2.02	- 2.00	2.90	2.06
space neating	Average climate	General	<u>3COP</u>	1 0/	2.00	2.02	2.92	2.90	2.00	2.90
*	55°C		ris (Seasona	ng %	112	110	114	112	100	115
•	JJ C		efficiency)	iig	112	110	114	115	109	115
			Seasonal sr							
			heating eff	class			ŀ	\ +		
	Average climate	General	SCOP	cluss	2.99	3 23	3 29	3.08	3 34	3 33
	water outlet	General	ns (Seasona	I %	2.55	5.25	5.25	5.00	5.54	5.55
	35°C		space heati	na 70	117	126	129	120	131	130
	55 C		efficiency)	iig		120	125	120	151	150
			Seasonal sr	bace						1
			heating eff.	class	A	A	+	A	A	\ +
Indoor Unit				EHBH	11CB3V/9W	16CB3V/9W	16CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W
Casing	Colour						W	hite		
	Material						Precoated	sheet metal		
Dimensions	Unit	HeightxW	/idthxDepth	mm			890x4	80x344		
Weight	Unit			kg	43 4	44 45	44 45	43 4	4 45	44 45
Operation range	Heating	Water sid	e Min.~Max.	°C			15·	~55		
	Domestic hot water	Water sid	e Min.~Max.	°C			25	~80		
Refrigerant	Charge			TCO₂eq				-		
	GWP					-	2,0	87.5		
Sound power level	Nom.			dBA	41	4	4	41	4	4
Sound pressure level	Nom.			dBA	27	3	80	27	3	0
					1	1	1	1	1	1
Outdoor Unit				ERHQ	011BV3	014BV3	016BV3	011BW1	014BW1	016BW1
Dimensions	Unit	HeightxW	/idthxDepth	mm		1,170x900x320			1,345x900x320	
Weight	Unit			kg		102			108	
Compressor	Quantity							1		
	Туре					H	ermetically seale	d scroll compress	or	
Operation range	Cooling	Min.~Max	ζ.	°CDB			10.04	~46.0		
P . (1)	Domestic hot water	Min.~Max	κ.	°CDB			-20	l~35		
Refrigerant	lype						R-4	110A		
	Charge			kg		2.7			3.0	
	CIMP			ICO₂eq		5.6			6.3	
	GWP						2,0	87.5		
	Control			10.1			Expansion valve	(electronic type)		
Sound power level	Heating	Nom.		dBA	6	64	66	6	<u>,4</u>	66
C I	Cooling	Nom.		dR4	64	66	69	64	66	69
Sound pressure	Heating	Nom.		dR4	49	51	53	50	<u>, , , , , , , , , , , , , , , , , , , </u>	52
Dowor current	Looling	NOM.	ltaga	dRV	50	52	54	50	<u>52</u>	54
Current	Pacammanda d	quency/VC	лауе	ΠZ/ V		v 5/ 1~/ 50/230			20/400	
Current	necommenued	uses		A		32		1	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 + ERLQ-CV3/CW1





EHBX-CB

ERLQ004-008CV3

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) /	6.00(1)/	740(1)/	11.2 (1) /	14.5(1)/	16.0 (1) /	11.2 (1) /	14.5 (1) /	16.0 (1) /
incuting capacity					4.03 (2)	5.67 (2)	6.89 (2)	11.0 (2)	13.6 (2)	15.2 (2)	11.0 (2)	13.6 (2)	15.2 (2)
Cooling capacity	Nom.			kW	4.08 (1) /	5.88 (1) /	6.20 (1) /	12.1 (1) /	12.7 (1) /	13.8 (1) /	12.1 (1) /	12.7 (1) /	13.8 (1) /
					4.17 (2)	4.84 (2)	5.36 (2)	11.7 (2)	12.6 (2)	13.1 (2)	11.7 (2)	12.6 (2)	13.1 (2)
Power input	Heating	Nom.		kW	0.870 (1)	1.27 (1) /	1.66 (1) /	2.43 (1) /	3.37 (1) /	3.76 (1) /	2.43 (1) /	3.37 (1) /	3.76 (1) /
					/ 1.13 (2)	1.59 (2)	2.01 (2)	3.10 (2)	4.10 (2)	4.66 (2)	3.10 (2)	4.10 (2)	4.66 (2)
	Cooling	Nom.		kW	0.900 (1)	1.51 (1) /	1.64 (1) /	3.05 (1) /	3.21 (1) /	3.74 (1) /	3.05 (1) /	3.21 (1) /	3.74 (1) /
COD					/ 1.80 (2)	2.07 (2)	2.34 (2)	4.31 (2)	5.08 (2)	5./3 (2)	4.31 (2)	5.08 (2)	5./3(2)
COP					3.04 (I) / 3.58 (2)	4.74 (I) / 3.56 (2)	4.45 (1) / 3.42 (2)	4.00 (1) / 2./5 (2) / 3.55 (3) / 2.10 (4)	4.30 (1) / 2.05 (2) /	4.25 (1) / 2.04 (2) /	4.00 (I) / 2./5 (2) / 3.55 (3) / 2.10 (A)	4.30 (1) / 2.05 (2) / 3.32 (3) / 2.08 (/)	4.25 (1) / 2.04 (2) /
FFR					4 55 (1) /	3.89(1)/	3 79 (1) /	3.98 (1) /	3.96 (1) /	3 69 (1) /	3.98 (1) /	3.96 (1) /	3.69 (1) /
LEN					2.32 (2)	2.34 (2)	2.29 (2)	2.72 (2)	2.47 (2)	2.29 (2)	2.72 (2)	2.47 (2)	2.29 (2)
Domestic hot	General	Declared	load profile					(_)	-		(_)		(_)
water heating	Average climate	ηwh (water he	ating efficiency)	%					-				
		Water heatir	ng energy efficier	ncy class					-				
Space heating	Average climate	General	SCOP		3.20	3.22	3.23	3.09	3.16	3.06	3.09	3.16	3.06
-	water outlet		ηs (Seasonal	%									
-	55°C		space heatir	g	125	12	26	120	123	119	120	123	119
			efficiency)										
			Seasonal sp	ace		A++				Δ	+		
			heating eff.	class									
	Average climate	General	SCOP	0/	4.52	4.29	4.34	3.98	3.90	3.80	3.98	3.90	3.80
	water outlet		ηs (Seasonal	%	170	100	171	15.0	150	140	150	150	140
	55 C		space neating	ig	1/8	169	1/1	150	153	149	150	153	149
			Seasonal sn	200									
			heating eff	class			A++			A+	A	++	A+
			neutingen	ciuss									
Indoor Unit				EHBX	04CB3V	08CB3V/9W	08CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W
Casing	Colour								White				
	Material							Pr	ecoated she	et metal			
Dimensions	Unit	HeightxW	'idthxDepth	mm					890x480x	344			
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	e Min.~Max.	°C					15~55				
	Cooling	Water side	e Min.~Max.	°C					5~22				
	Domestic hot water	Water side	e Min.~Max.	°C					25~80)			
Refrigerant	Charge			ICO ₂ eq	<u> </u>				-				
	GWP			10.4	<u> </u>				2,087.5)			
Sound power level	Nom.			dBA		40		41	4	4	41	4	14
Sound pressure level	Nom.			aвя		20		2/	3	0	2/	3	50
Outdoor Unit				ERLO	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeiahtxW	idthxDepth	mm		735x832x	307			1.345x9	00x320		
Weight	Unit			kq	54	5	6		113	,		114	
Compressor	Quantity				<u> </u>				1				
·	Туре				Herme	tically sealed swi	ing compressor		Herme	tically seale	d scroll com	oressor	
Operation range	Cooling	Min.~Max		°CDB		10.0~43	.0			10.0	~46.0		
	Domestic hot water Min.~Max. °CDI					-25~35	5			-20	~35		
Refrigerant	Туре								R-410A	٩			
	GWP								2,087.5	5			
	Charge		_	TCO ₂ eq	3.1	3	.3			7	' .1		
				kg	1.5	1.	.6			3	.4		
	Control							Expans	ion valve (el	ectronic typ	e)		1
Sound power level	Heating	Nom.		dBA	L	61	62	6	54	66	6	4	66
	CARTA	Nom			1	63		64	66	69	64	66	69
Sound pressure	Cooling	NOM.		dвА		05		04			01	00	
	Heating	Nom.		dBA		48	49	5	51	52	51	51	52
level	Heating Cooling	Nom. Nom.		dBA dBA dBA	48	48 49	49 50	50	51 52	52 54	50	51 52	52 54
level Power supply	Cooling Heating Cooling Name/Phase/Fre	Nom. Nom. equency/Vo	ltage	dBA dBA dBA Hz/V	48	48 49	49 50 V3/	50 50 /1~/50/230	51 52	52 54	50	51 52 /1/3N~/50/40	52 54 00

(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) Ta DB -7°C (RH85%) - LWC 35°C (4) Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

Daikin Altherma low temperature split

EHBX-CB + ERHQ-BV3/BW1





EHBX-CB

ERHQ-BV3

Efficiency data			EHBH	+ ERHQ	11CB + 0	33V/9W 11BV3	16CB3V/9W + 014BV3	16CB3V/9 + 016BV	W 3	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 (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) / 4.7	5 (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) / 3.2	0 (2)	4.30 (1) / 3.39 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.22 (2)	
Domestic hot	General	Declared	load profile							-			
water heating	Average climate	ηwh (water he	eating efficiency)	%		-							
		Water heating	ng energy efficie	ency class						-			
Space heating	Average climate	General	SCOP		2	2.86	2.82	2.92		2.90	2.80	2.96	
	water outlet		ηs (Seasona	I %									
-	55°C		space heati	ng		112	110	114		113	109	115	
			efficiency)										
			Seasonal sp	bace					А	+			
			heating eff.	. class									
	Average climate	General	SCOP		2	2.99	3.23	3.29		3.08	3.34	3.33	
	water outlet		ηs (Seasona	6 %									
	35°C		space heati	ng		117	126	129		120	131	130	
			efficiency)										
			Seasonal sp	bace		А	A	٨+		A	A	+	
			neating eff.	. class									
Indoor Unit				EUDU	1100	22//0//	16CP21/0W	16CP2\//0	w/	11CP2V/0W	16CP2V/0W	16CP2V/0W	
Casing	Colour			спри	псь	50/900	10CB3V/9W	10CD3V/9	W	nite	100030/900	100030/900	
Casing	Material							Procos	tod	shoot motal			
Dimensions	Unit	HeightyM	/idthyDepth	mm				80	0~49	80v344			
Weight	Unit	Theight	nutinxDeptil	ka	43		14 45	44 4	15	43 43	4 45	44 45	
	Heating	Water sid	e Min ~Max	ر م	5				15	~55	5		
operation range	Domestic hot water	Water sid	e Min ~Max.	<u>د</u>					25	~80			
Refrigerant	Charge	water sid	c min. max.	TCO.eq					25	-			
nemgerant	GWP			TCO2CQ					2.0	875			
Sound nower level	Nom			dBA	-	41		14	2,00	41	4	4	
Sound pressure level	Nom.			dBA		27		80		27	3	0	
sound pressure level	Nom.			abri		2,	-			27			
Outdoor Unit				ERHQ	01	1BV3	014BV3	016BV3		011BW1	014BW1	016BW1	
Dimensions	Unit	HeightxW	/idthxDepth	mm			1,170x900x320				1,345x900x320		
Weight	Unit			kg			102				108		
Compressor	Quantity									1			
	Туре						H	lermetically s	eale	d scroll compress	or		
Operation range	Cooling	Min.~Max	κ.	°CDB					10.0~	~46.0			
	Domestic hot water	Min.~Max	κ.	°CDB					-20	~35			
Refrigerant	Туре								R-4	10A			
	Charge			kg			2.7				3.0		
				TCO₂eq			5.6				6.3		
	GWP								2,0	87.5			
	Control							Expansion v	alve	(electronic type)			
Sound power level	Heating	Nom.		dBA		6	54	66		6	64	66	
	Cooling	Nom.		dBA		64	66	69		64	66	69	
Sound pressure	Heating	Nom.		dBA		49	51	53		5	51	52	
level	Cooling	Nom.		dBA		50	52	54		50	52	54	
Power supply	Name/Phase/Fre	equency/Vo	oltage	Hz/V			V3/1~/50/230				W1/3N~/50/400		
Current	Recommended	Recommended fuses A									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 monobloc

EDLQ-CV3/EBLQ-CV3

Single Unit			EDL)/EBLO	05CV3	07CV3	05CV3	07CV3	
Heating capacity	Nom.		202	kW	4 40 (1) / 4 03 (2)	700 (1) / 6 90 (2)	4 40 (1) / 4 03 (2)	700 (1) / 6 90 (2)	
Cooling capacity	Nom.			kW		-	3.88 (1) / 4.17 (2)	5.20 (1) / 5.36 (2)	
Power input	Coolina	Nom.		kW		-	0.950 (1) / 1.80 (2)	1 37 (1) / 2 34 (2)	
	Heating	Nom.		kW	0 880 (1) / 113 (2)	1.55 (1) / 2.02 (2)	0.880 (1) / 113 (2)	1.55 (1) / 2.02 (2)	
СОР					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) / 2.32 (2)	3.80 (1) / 2.29 (2)	
Dimensions	Unit	Height		mm		7	35		
		Width		mm		1,0	090		
		Depth		mm		3	50		
Weight	Unit			kg	76.0	80.0	76.0	80.0	
Operation range	Heating	Water side	e Min.~Max.	°C		15~	-55.0		
	Cooling	Ambient	Min.~Max.	°CDB	-	~-	10.0	~43.0	
		Water side	e Min.~Max.	°C	-	~-	5.0~	~22.0	
	Domestic hot	Ambient	Min.~Max.	°CDB		-25.0)~35.0		
	water	Water side	e Min.~Max.	°C		25	~80		
Refrigerant	Туре					R-4	410A		
	GWP					2,0	87.5		
	Charge			kg	1.3	1.5	1.3	1.5	
				TCO₂eq	2.7	3.0	2.7	3.0	
	Control					Expansion valve	e (electronic type)		
Sound power level	Heating	Nom.		dBA			50		
	Cooling	Nom.		dBA		-	6	3.0	
Sound pressure	Heating	Nom.		dBA			50		
level	Cooling	Nom.		dBA		-	5	50	
Space heating	Average climate	General	ηs (Seasonal	%					
	water outlet		space heating		125	126	125	126	
	55°C		efficiency)						
			SCOP		3.20	3.22	3.20	3.22	
			Seasonal s	bace		A	++		
	A	Canada	heating eff	. class					
	Average climate	General	ns (Seasonai	%	170	162	170	162	
	water outlet		space neating		1/2	163	1/2	163	
	35 C				4 20	4.1.4	4.20	4.14	
			Seasonal s	220	4.59	4.14	4.59	4.14	
			heating eff	class		A	++		
(1) cooling Ta 35°C - 1 WI	= 18°C (DT – 5°C): beati		7°C/6°C - LWC	25°C (DT -	5°C) (2) cooling Ta 35°C - 1.WE 7	°C (DT – 5°C): heating Ta DB/W	B 7°C /6°C - LWC 45°C (DT - 5°C))	
(3) Contains fluorinated	l greenhouse gases	ing ta Db/ wb	/ C/U C - LWC	55 C (D1 –		C (DI = 5 C), fieating ia Db/W	57 C/0 C - LWC 45 C (D1 = 5 C))	
Wiring centre					EKCB	07CV3	EK2CE	307CV3	
Dimensions	Unit	Heiaht		mm	2	3	60		
		Width		mm		3	40		
		Depth		mm			97		
Weight	Unit			kg			4		
Operation range	Heating	Ambient	Min.~Max.				-		
5	Indoor	Ambient	Min.	°CDB			5		
	installation		Max.	°CDB			35		
Refrigerant	Charge			TCO₂eq			-		
	Control						-		
	GWP						-		
Back-un heater ki	+				FKMBI	UHC3V3	FKMBI	IHC9W1	
Dimensions	Unit	Height		mm	Entite	5110515	60		
		Width		mm			50		
		Depth		mm		2	10		
Weight	Unit			ka		11		13	
Operation range	Heating	Ambient	Min.~Max	9			-		
- person unge	Indoor	Ambient	Min.	°CDB			5		
	installation		Max.	°CDB			- 30		
Refrigerant	Charge			TCO ₂ ea		· · · · ·	-		
J	Control			4 - 7			-		
	GWP						-		

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			EBLO	EBHO	011BB6V3	014B	B6V3	016BB	86V3	011BB	6W1	014BE	B6W1	016B	B6W1
Heating capacity	Nom.			kW	11.20 (1) / 10.87 (2) 14.00 (1)	/ 13.10 (2)	16.00 (1) /	15.06 (2)	11.20 (1) / 1	0.87 (2)	14.00 (1) /	/ 13.10 (2)	16.00 (1)	15.06 (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) / 1	0.0 (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	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	5				4.38 (1) / 3.28 (2)	4.25 (1) /	3.27 (2)	4.12 (1) / 3	3.20 (2)	4.31 (1) / 3	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	2.71 (2)	2.96 (1) /	2.47 (2)	2.72 (1) /	2.28 (2)
Dimensions	Unit	Height		mm		1,418									
		Width		mm					1,4	35					
		Depth		mm					38	32					
Weight	Unit			kg					18	80					
Hydraulic	Back-up heater	Type				6۱	/3					6V	V1		
component	current	Power	Phase/	Hz/V											
·		supply	Frequency/ Voltage		1~/50/230 3~/50/400										
Operation range	Heating	Ambient	Min.~Max.	°CWB	-20~35 -15~35	-20~35	-15~35	-20~35	-15~35	-25~35	-15~35	-25~35	-15~35	-25~35	-15~35
	5	Water side	Min.~Max.	°C					15 (3)~	-55 (3)					
	Cooling	Ambient	Min.~Max.	°CDB					10~	-46					
	5	Water side	Min.~Max.	°C					5~	22					
	Domestic hot	Ambient	Min.~Max.	°CDB	-20~43 -15~43	-20~43	-15~43	-20~43	-15~43	-25~43	-15~43	-25~43	-15~43	-25~43	-15~43
	water	Water side	Min.~Max.	°C					25~	-80					
Refrigerant	Туре								R-4	10A					
Charge				kg					3.	.0					
				TCO₂eq					6	.2					
	Control				Expansion valve (electronic type)										
	GWP								2,0	88					
Sound power level	Heating	Nom.		dBA	64	6	5	66	5	64		6	5	6	6
	Cooling	Nom.		dBA	65	6	6	69)	65		6	6	6	9
Sound pressure	Heating	Nom.		dBA		51		52	2	49		5	1	5	3
level	Cooling	Nom.		dBA	50	5	2	54	ł	50		52	2	5	4
Compressor	Main power	Name				V	3					W	/1		
component	supply	Phase				1/	~					3N	~		
		Frequency	/	Hz					5	0					
		Voltage		V		23	80					40	00		
Space heating	Average climate water outlet 55°C	General	ns (Seasonal space heating efficiency)	%	1	05		101	1	107	,	11	0	1'	11
			SCOP		2.70	2.	71	2.6	0	2.7	5	2.8	32	2.	35
A w 3:			Seasonal sp heating eff.	ace class					A	+					
	Average climate C water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	129	13	0	123	3	129)	13	0	12	27
			SCOP		3.30	3.3	32	3.1	5	3.30)	3.3	31	3.	25
			Seasonal sp heating eff.	oace class					A	+					

(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

c, is clear borrowing, no near pump operation = during commissioning

Tanks and solar for Daikin Altherma low temperature

Plastic domestic hot water tank with solar support

EKHWP-B



EKHWP300B

Accessory		E	KHWP	300B	500B
Casing	Colour			Traffic white (RAL9016)) / Dark grey (RAL7011)
-	Material			Impact resistant	polypropylene
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	58	82
Tank	Water volume		- T	300	500
	Material			Polypro	opylen
	Maximum water	r temperature	°C	8	5
	Insulation	Heat loss	kWh/24h	1.5	1.7
	Energy efficienc	y class		В	5
	Standing heat lo)SS	W	64	72
	Storage volume		1	294	477
Heat exchanger	Domestic hot	Quantity		1	
w	water	Tube material		Stainless stee	I (DIN 1.4404)
		Face area	m²	5.600	5.800
		Internal coil volume	1	27.1	29.0
		Operating pressure	bar	6	
		Average specifc thermal output	W/K	2,790	2,825
	Charging	Quantity		1	
		Tube material		Stainless stee	I (DIN 1.4404)
		Face area	m²	3	4
		Internal coil volume	1	13	19
		Operating pressure	bar	3	
		Average specifc thermal output	W/K	1,300	1,800
	Auxiliary solar	Tube material		-	Stainless steel (DIN 1.4404)
	heating	Face area	m²	-	1
	2	Internal coil volume	1	-	2
		Operating pressure	bar	-	3
		Average specifc thermal output	W/K	-	280

EKHWP-PB

Accessory		E	KHWP	300PB	500PB
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)
5	Material			Impact resistant	polypropylene
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	58	89
Tank	Water volume		Ĩ	294	477
	Material			Polypr	opylen
	Maximum water	r temperature	°C	8	5
	Insulation	Heat loss k	(Wh/24h	1.5	1.7
	Energy efficienc	y class		E	3
•	Standing heat lo)SS	W	64	72
	Storage volume		1	294	477
Heat exchanger	Domestic hot	Quantity		1	
5	water	Tube material		Stainless stee	I (DIN 1.4404)
		Face area	m²	5.600	5.800
		Internal coil volume	1	27.1	29.0
		Operating pressure	bar		5
		Average specifc thermal output	W/K	2,790	2,825
	Charging	Quantity		1	
		Tube material		Stainless stee	I (DIN 1.4404)
		Face area	m ²	3	4
		Internal coil volume	1	13	19
		Operating pressure	bar		3
		Average specifc thermal output	W/K	1,300	1,800
	Auxiliary solar	Tube material		-	Stainless steel (DIN 1.4404)
	heating	Face area	m²	-	1
		Internal coil volume	1	-	2
		Operating pressure	bar	-	3
		Average specifc thermal output	W/K	-	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	1	1	150	200	285	200	285				
	Material			Stainless steel (DIN 1.4521)								
	Maximum wa	ter temperature	°C			85						
	Insulation	Heat loss	kWh/24h	155.0	177.0	219.0	177.0	219.0				
	Energy efficie	ncy class		С								
	Standing heat	loss	W	65	74	91	74	91				
	Storage volun	ne	1	150	200	285	200	285				
Heat exchanger	Quantity					1						
	Tube material	Tube material			Duplex steel LDX 2101							
Booster heater	Capacity		kW	3								
Power supply	Phase/Freque	ncy/Voltage	Hz/V		1~/50/230		2~/5	60/400				

Enameled domestic hot water tank



EKHWE200A

EKHWE-A3V3/EKHWE-A3Z2

Accessory			EKHWE	150A3V3	200A3V3	300A3V3	200A3Z2	300A3Z2			
Casing	Colour		1			RAL9010					
	Material			Epoxy coated steel							
Dimensions	Unit	Diameter	mm	5	45	660	545	660			
Weight	Unit	Empty	kg	80	104	140	104	140			
Tank	Water volume	2	1	150	200	300	200	300			
	Material	Material			Enamel coated steel acc. DIN4753TL2						
	Maximum water temperature			75							
	Insulation	Heat loss	kWh/24h	1.7	1.9	2.5	1.9	2.5			
•	efficie Energy efficie	ncy class			C	D	С	D			
	Standing hea	t loss	W	71	79	104	79	104			
	Storage volur	ne	1	150	200	300	200	300			
Heat exchanger	Quantity	Quantity				1					
Booster heater	Capacity	Capacity kW				3					
Power supply	Phase/Freque	Phase/Frequency/Voltage Hz/V			1~/50/230		2~/5	0/400			

EKSH-P/EKSV-P

Solar collector			EKSV21P	EKSV26P	EKSH26P
Mounting			Ver	tical	Horizontal
Dimensions	Unit HeightxWidthxDepth	n mm	1,006x8	5x2,000	2,000x85x1,300
Weight	Unit	kg	33	4	2
Volume		Ĩ	1.3	1.7	2.1
Surface	Outer	m²	2.01	2.0	50
	Aperture	m²	1.800	2.3	60
	Absorber	m²	1.79	2.:	35
Coating			Micro-therm	n (absorption max. 96%, Emission c	a. 5% +/-2%)
Absorber			Harp-shaped copper pipe rec	gister with laser-welded highly sele	ctive coated aluminium plate
Glazing			Single	e pane safety glass, transmission +/	- 92%
Allowed roof angle	e Min.~Max.	0		15~80	
Operating pressure	e Max.	bar		6	
Stand still temperature	Max.	°C		192	
Thermal	collector efficiency (ηcol)	%		61	
performance	Zero loss collector efficiency n0	%	0.781	0.7	84
	Heat loss coefficient a1	W/m².K	4.240	4.2	50
	Temperature dependence of the heat loss coefficient a2	W/m ² .K ²	0.006	0.0	107
	Thermal capacity	kJ/K	4.9	6	.5

EKSRPS

Pump station for	r pressureless ta	ank EK	SRPS	EKSRPS4A
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230
Weight	Unit		kg	б
Power supply	Phase			1~
	Frequency		Hz	50
	Voltage		V	230

EKSRDS2

Pump station for	r pressureless ta	ank		EKSRPS4A
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230
Weight	Unit		kg	6
Power supply	Phase			1~
	Frequency		Hz	50
	Voltage		V	230



Options for Daikin Altherma low temperature

EKRUCBL/EKRUCBS

Indoor unit			EKRUCBL1-7	EKRUCBS
Control systems	Class of temperature control		N	/I
	Contribution to seasonal space heating efficiency	%	4	l.0



EKRTWA

EKRTR

EKRTW/EKRTR

Accessory				EKRTR1	EKRTWA			
Dimensions	Unit	HeightxWidthxDepth	mm	87x12	5x34			
Accessory Dimensions Weight Ambient temperature Temperature setting range Clock Regulation function Power supply	Receiver	r Height/Width/Depth		170/50/28	-			
Weight	Unit		g	-	215			
	Thermostat			210	-			
	Receiver		g	125	-			
Ambient	Storage	Min./Max.	°C	-20/	60			
temperature	Operation	Min./Max.	°C	0/5	0			
Temperature	Heating	Min./Max.	°C	4/3	7			
setting range	Cooling	Min./Max.	°C	4/3	7			
Clock				Yes				
Regulation function	on			Proportional band				
Power supply	Voltage			-	Battery powered 3* AA-LR6 (alkaline)			
	Thermostat	Voltage	V	Battery powered 3x AA-LRG (alkaline)	-			
Power supply	Receiver	Voltage	V	230	-			
	Frequency		Hz	50	-			
	Phase			1~	-			
Connection	Туре			-	Wired			
	Thermostat			Wireless	-			
	Receiver			Wired	-			
Maximum distance	e Indoor		m	approx. 30m	-			
to receiver	Outdoor		m	approx. 100m	-			
Control systems	Class of tempe	erature control		IV				
Temperature setting range Clock Regulation functio Power supply Connection Maximum distance to receiver Control systems	Contribution to se	asonal space heating efficiency	%	2.0				

Heat pump convector





ARC452A15

FWXV-A

Indoor Unit			FWXV	15A	20A			
Heating capacity	Total capacity	Nom.	kW	1.5	2.0			
Cooling capacity	Total capacity	Nom.	kW	1.2	1.7			
	Sensible capacity	Nom.	kW	0.98	1.4			
Power input	Heating	Nom.	kW	0.013	0.015			
	Cooling	Nom.	kW	0.013	0.015			
Dimensions	Unit	HeightxWidthxDepth	leightxWidthxDepth mm 600x700x210					
Weight	Unit		kg	1	5			
Piping connection	s Drain/OD/Inlet/0	Outlet m	nm/inch	18/G 1/2/G 1/2				
Sound pressure	Heating	Nom.	dBA	19	29			
level	Cooling	Nom.	dBA	19	29			
Power supply	Phase/Frequenc	y/Voltage	Hz/V	1~/50/60/2	20-240/220			



3. Daikin Altherma high temperature split

Daikin Altherma high temperature split







ER(R/S)Q-AV1/Y1

EKHBRD_ACV1/Y1

EMRQ14-16A

EKHBRD-ADV1/Y1 + ER(R/S)Q-AV1/AY1

Efficiency data		EKH	IBRD + ERSC	Q/ERRQ	011ADV1 + 011AV1	014ADV1 + 014AV1	016ADV1 + 016AV1	011ADY1 + 011AY1	014ADY1 + 014AY1	016ADY1 + 016AY1	
Heating capacity	Nom.			kW	11.00 (1) / 11.00 (2) / 11.00 (3) / 11.20 (3)	14.00 (1) / 14.00 (2) / 14.00 (3) / 14.40 (3)	16.00 (1) / 16.00 (2) / 16.00 (3)	11.00 (1) / 11.00 (2) / 11.00 (3) / 11.20 (3)	14.00 (1) / 14.00 (2) / 14.00 (3) / 14.40 (3)	16.00 (1) / 16.00 (2) / 16.00 (3)	
Power input	Heating	Nom.		kW	3.57 (1) / 4.40 (2) / 2.61 (3) / 2.67 (3)	4.66 (1) / 5.65 (2) / 3.55 (3) / 3.87 (3)	5.57 (1) / 6.65 (2) / 4.31 (3)	3.57 (1) / 4.40 (2) / 2.61 (3) / 2.67 (3)	4.66 (1) / 5.65 (2) / 3.55 (3) / 3.87 (3)	5.57 (1) / 6.65 (2) / 4.31 (3)	
Domestic hot	General	Declared	load profile					-			
water heating	Average climate	ηwh (water he	eating efficiency)	%				-			
		Water heatir	ng energy efficie	ency class				-			
Space heating	Average climate	General	SCOP		2.65	2.66	2.61	2.65	2.66	2.61	
*	water outlet 55°C		ηs (Seasona space heati efficiency)	l % ng	103	104	102	103	104	102	
			Seasonal sp heating eff	oace . class			P	\+			
	Average climate	General	SCOP		2.70	2.68	2.88	2.70	2.68	2.88	
	water outlet 35°C		ηs (Seasona space heati efficiency)	l % ng	105	110	112	105	110	112	
			Seasonal space heating eff. class			В					
Indoor Unit			E	KHBRD	011ADV1	014ADV1	016ADV1	011ADY1	014ADY1	016ADY1	
Casing	Colour						Metal	lic grey			
	Material						Precoated	sheet metal			
Dimensions	Unit	HeightxW	/idthxDepth	mm			705x6	00x695			
Weight	Unit			kg	144 147						
Operation range	Heating	Ambient Water side	Min.~Max. e Min.~Max.	°C °C			-20 / 25 [,]	0~20 ~80			
	Domestic hot	Ambient	Min.~Max.	°CDB	-20~35						
	water	Water side	e Min.~Max.	°C	25~80						
Refrigerant	Туре						R-1	34a			
	Charge			kg TCO₂eq			3.	6 718			
	GWP						1,4	130			
Sound pressure	Nom.			dBA	43 / 46	45 / 46	46/46	43 / 46	45 / 46	46/46	
level	Night quiet mode	Level 1		dBA	40	43	45	40	43	45	
Outdoor Unit			ERSC)/ERRQ	011AV1	014AV1	016AV1	011AY1	014AY1	016AY1	
Dimensions	Unit	HeightxW	/idthxDepth	mm			1,345x9	900x320			
Weight	Unit			kg			12	20			
Compressor	Quantity							1			
	Туре					H	lermetically seale	d scroll compress	or		
Operation range	Heating	Min.~Max	ζ.	°CWB			-20	~20			
	Domestic hot water	Min.~Max	κ.	°CDB			-20	~35			
Refrigerant	Туре						R-4	10A			
	Charge			kg TCO₂eq	<u>4.5</u> 94						
	GWP						2,0	87.5			
	Control					1	Expansion valve	(electronic type)	1		
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/Fre	equency/Vo	ntage	HZ/V		v i/ i~/50/220-440	J		16)	
Current	necommended	uses		A	1	20		1	10		

(1) EW 55°C; LW 65°C; Dt 10°C; ambient conditions: 7°CDB/6°CWB (2) EW 70°C; LW 80°C; Dt 10°C; ambient conditions: 7°CDB/6°CWB (3) EW 30°C; LW 35°C; Dt 5°C; ambient conditions: 7°CDB/6°CWB (4) Contains fluorinated greenhouse gases

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 mm indoor unit	2,010	2,285			
		Width	mm	6	00			
		Depth	mm	6	595			
Weight	Unit	Empty	kg	70	78			
Tank	Water volume	è	I	200	260			
	Material			Stainless steel (EN 1.4521)				
	Maximum wa	ter temperature	°C		75			
	Insulation	Heat loss	kWh/24h	12.0	15.0			
	Energy efficie	ncy class		В				
	Standing hea	t loss	W	50	63			
	Storage volur	ne	1	200	260			
Heat exchanger	Quantity			1				
	Tube material			Duplex steel (EN 1.4162)				
	Face area		m²	1.560				
	Internal coil v	olume	1		7.5			

Plastic domestic hot water tank with solar support

EKHWP-B

Accessory		E	KHWP	300B	500B			
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)				
5	Material			Impact resistant polypropylene				
Dimensions	Unit	Width	mm	595	790			
		Depth	mm	615	790			
Weight	Unit	Empty	kg	58	82			
Tank	Water volume		1	300	500			
	Material			Polypr	opylen			
	Maximum water	r temperature	°C	8	5			
	Insulation	Heat loss k	Wh/24h	1.5	1.7			
	Energy efficienc	y class			В			
	Standing heat lo	DSS	W	64	72			
	Storage volume		L	294	477			
Heat exchanger	Domestic hot	Quantity			1			
	water	Tube material		Stainless steel (DIN 1.4404)				
		Face area	m²	5.600	5.800			
		Internal coil volume	1	27.1	29.0			
		Operating pressure	bar		5			
		Average specifc thermal output	W/K	2,790	2,825			
	Charging	Quantity			1			
		Tube material		Stainless stee	el (DIN 1.4404)			
		Face area	m²	3	4			
		Internal coil volume	1	13	19			
		Operating pressure	bar		3			
		Average specifc thermal output	W/K	1,300	1,800			
	Auxiliary solar	Tube material		-	Stainless steel (DIN 1.4404)			
	heating	Face area	m²	-	1			
		Internal coil volume	1	-	2			
		Operating pressure	bar	-	3			
		Average specifc thermal output	W/K	-	280			



EKHWP300B

Solar collector



EKS(H/V)-P

EKSH-P

Solar collector			EKSV21P	EKSV26P	EKSH26P		
Mounting			Ver	Vertical			
Dimensions	Unit HeightxWid	thxDepth mm	1,006x8	5x2,000	2,000x85x1,300		
Weight	Unit	kg	33	4	2		
Volume		1	1.3	1.7	2.1		
Surface	Outer	m²	2.01	2.0	50		
	Aperture	m²	1.800	2.3	60		
	Absorber	m²	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.	٥	15~80				
Operating pressure	e Max.	bar	6				
Stand still temperature	Max.	°C	192				
Thermal	collector efficiency (ηcol)	%		61			
performance	Zero loss collector efficiency r	0 %	0.781	0.7	84		
	Heat loss coefficient a1	W/m².K	4.240	4.2	50		
	Temperature dependence of the heat loss	coefficient a2 W/m ² .K ²	0.006	0.0	07		
	Thermal capacity	kJ/K	4.9	6	.5		



EKSRPS4

Pump station

EKSRPS

Pump station for	pressureless tan	k EKSRPS	EKSRPS4A
Dimensions	Unit	HeightxWidthxDepth mm	815x142x230
Weight	Unit	kg	6
Power supply	Phase		1~
	Frequency	Hz	50
	Voltage	V	230



5. Daikin Altherma hybrid heat pump



EVLQ-CV3

EHYHBH/X-AV32 / EHYKOMB33A2/3

Daikin Altherma hybrid heat pump

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

Efficiency data		EUVUR			05AV22 ± 05CV2	087/33 + 080	.N3 08V/3 + 08C/3		
Heating capacity	Nom			kW	4 40 (1) / 4 03 (2)	740 (1) / 6 89	(2) $740(3)/689(4)$		
	Nom.			kW	4.40 (1) / 4.05 (2)	-	69(4)/54(4)		
Power input	Heating	Nom		kW	0.87(1)/113(2)	166 (1) / 2 01 (166(3)/201(4)		
i ower input	Cooling	Nom		kW	0.07 (1)7 1.13 (2)	-	2 01 (3) / 2 34 (4)		
COP	cooning				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)		
Domestic hot	General	Declared I	load profile			XL			
water heating	Average climate	nwh (water	heating efficien	cy) %		96			
	5	Water hea	iting energy			А			
Chase heating	Average climate	Conorol			2.20	2.24	2.20		
space neating	Average climate	General	SCOP ns (Seasonal sn	200 0/2	5.20	5.24	5.29		
*	55°C		heating efficier	icy)	128	127	129		
	Avorago climato	Conoral	Seasonal space hear	ting eff. class		A++			
	water outlet 35°C	General	heating efficier	ace 70		-			
Indoorlinit					05 41/22	-	0941/2		
Gar	Concumption (C20)	Min Max	CUIUDU/CI	m ³ /h	USAVSZ	UOAV32	USAVS	0.79.2.20	
Gas	Consumption (G20)	Min-Max		m ³ /h				0.06-3.93	
	Consumption (G23)	Min-Max		m ³ /h				0.30-1.29	
	Connection	Diameter		mm		-		15	
Central heating	Heat input Qn (net	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 calori	fic value	%		-		98 / 107	
	Operation range	Min/Max		°C		-		15/80	
Domestic hot	Output	Min-Nom		kW		-		7.6-32.7	
water	Water flow	Rate Nom I/min				-		9.0 / 15.0	
Constants.	Operation range	Min/Max		°C		-		40/65	
Supply air	Connection			mm		-		100	
	Concentric					-		Yes	
Flue gas	Connection			mm		-		60 White DAI 0010	
Casing	Matorial					Procented sheet	motal	Proceeted sheet metal	
Dimensions	Unit	HeightyW	lidthyDepth	mm			4	820x-x400x270	
Weight	Unit	Theightaw	lutilizeptil	ka	30	J0224J0710	31.2	36	
Power supply	Phase/Frequency	/Voltage		H ₇ /V	50	-	51.2	1~/50/230	
Flectrical power	Max	, vonage		W		-		55	
consumption	Standby			Ŵ		-		2	
Operation range	Heating	Ambient	Min.~Max.	°C		-25~25		-	
		Water side	e Min.~Max.	°C		-			
	Cooling	Ambient	Min.~Max.	°CDB	_/	-~- 10~43			
	5	Water side	e Min.~Max.	°C		~-	5~22	-	
Notes						-		For water circuit central heating, safety valve: refer to EHYHB*	
Outdoor Unit				EVLQ	05CV3		08CV3		
Dimensions	Unit	HeightxW	idthxDepth	mm		735x832x30	7		
Weight	Unit			kg	54		56		
Compressor	Quantity					1			
	Туре				Herme	etically sealed swin	g compressor		
Operation range	Heating	Min.~Max		°CWB		-25~25			
Refrigerant	Туре					R-410A			
	Charge		_	kg	1.45		1.60		
				TCO ₂ eq	3		3.3		
	GWP					2,087.5			
	Control				Exp	oansion valve (elect	ronic type)		
Sound power level	Heating	Nom.		dBA	61		62		
Sound pressure level	Heating	Nom.		dBA	48	1/0/5	49		
Power supply	Name/Phase/Fre	quency/Vo	ltage	Hz/V		V3/1~/50/23	U		
Current	Recommended f	uses		A		20			

(I) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) 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) (5) Contains fluorinated greenhouse gases



6. Gas condensing boiler

EKOMB(G)-A

Gas condensing boiler

EKOMB(G)-A(H)

Indoor Unit			EKOMB/EK	OMBG	22AH	28AH	33AH	22A	28A	33A		
Gas	Connection	Diameter		mm	1	5	-		15			
	Consumption (G20)	Min-Max		m³/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		m³/h				0.66-2.80	0.86-3.50	0.80-3.93		
	Consumption (G31)) Min-Max		m³/h	0.22-0.87			0.22-0.92	0.28-1.15	0.30-1.29		
Central heating	Heat input Qn (net calorific value)	t 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)	5 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 calori	fic 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 wa	ter thresho	old	l/min	1.5 -				1.5			
	Water flow	Rate	Nom	l/min	10.0 / 6.0	12.5 / 7.5	-	10.0 / 6.0	12.5 / 7.5	15.0 / 9.0		
	Temperature	Factory setting		°C			6	50				
	Operation range	tion range Min/Max			40/65 -/-							
Supply air	Connection			mm	10	100 -			100			
	Concentric				- Yes							
Flue gas	Connection			mm	60	60 - 60						
Casing	Colour				White - RAL9010 -			White - RAL9010				
	Material				Precoated sheet metal		-	Precoated sheet metal		tal		
Dimensions	Unit	HeightxCasi on indoor ur	ngxIntegrated nitxWidth	mm	590x-x450x240	650x-x450x240	-	590x-x450x240	650x-x450x240	710x-x450x240		
Weight	Unit	Empty		kg	30	33	-	30	33	36		
Power supply	Phase/Frequency	y/Voltage		Hz/V			1~/5	0/230				
Electrical power	Max.			W			8	30				
consumption	Standby			W				2				
Domestic hot	General	Declared I	oad profile		L	Х	L	L	X	(L		
water heating		ηwh (water he	ating efficiency)	%	84	8	7	84	87	-		
*		Water hea efficiency	ting energy class					A				
Space heating	General	ηs (Seasor heatinα ef	nal space ficiency)	%			93			94		
	Seaso			ff. class	Α							





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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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