DAIKIN

altherma

Heating

All-in-one comfort for residential applications

2025
NEW

Your next heating system will be a heat pump

Heat pumps are ready to take on the challenge of home decarbonization and Daikin is ready to be the most suitable partner in this challenge.

Home decarbonisation is the sustainability challenge of today. It's the newest addition to the global paradigm shift towards a more sustainable economy. In the automotive industry, agriculture and even in air travel, efforts have already been made to reduce or eliminate carbon emissions from energy sources.
Next on the list: homes.

The European Union pledged to "play a central role" in achieving net-zero greenhouse gas emissions by 2050.

Daikin Altherma is the absolute most sold hydronic heat pump brand in Europe, since 2006*. Our hydronic heat pumps are 100% manufactured in Europe.

*source: BRG Building Solutions – June 2024 data/report

In order to achieve their goals, they are betting on heat pumps

And at Daikin, we are convinced that they're right. Heat pumps are more than ready to take on the challenge of home decarbonisation. They are not a technology of the future, but an established solution, ready to provide comfort.

Did you know?
In several European countries, heat pumps are already installed in more than 50% of new buildings. In renovations, heat pumps are increasingly being considered as a replacement for boilers, especially for high-temperature models with a similar leaving water temperature of 70 °C.

Heating

4 Steps to decarbonising residential heat

One of the biggest challenges we face to ensure a healthy and sustainable environment and contribute to carbon neutrality is to maximize usage of renewable energy, specifically when heating our homes. The majority of residential housing is still heated with outdated systems, often using polluting fossil fuels such as coal and oil.

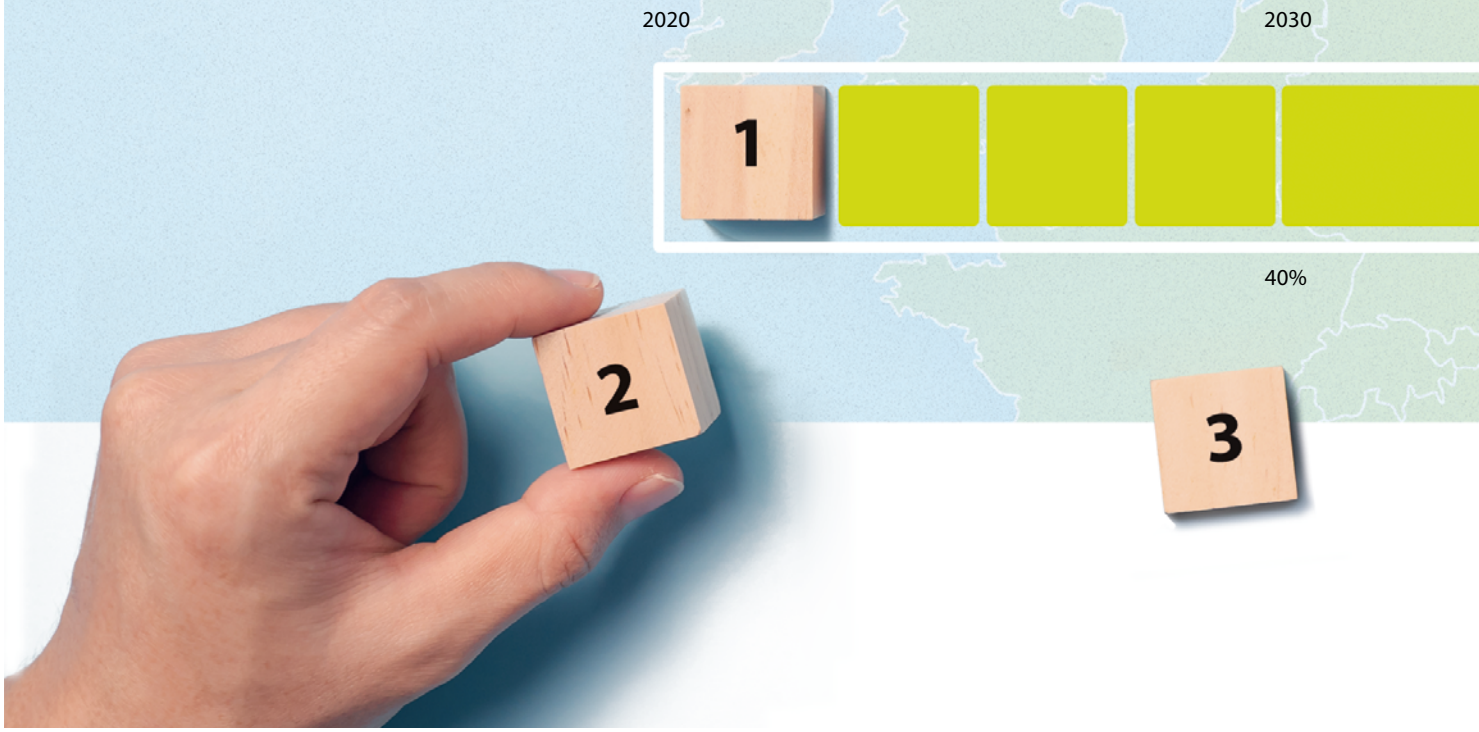
The challenge involved in tackling this is made all the more clear by The European Green Deal, which is a set of policy initiatives by the European Commission with the key aim of making Europe climate neutral in 2050 using green technology.

1 Strengthened new build rules

All European member states have already put measures in place to ensure that new build houses and apartments have a better carbon performance by making an improved building envelope and the use of renewable energy mandatory. As a result, Daikin estimates that heat pumps already have up to 50% market share in new (single family) houses.
A considerable additional benefit of hydronic heat pumps is the ability to use it to cool as well heat, which is increasingly becoming a consumer requirement. This is partly due to the climate change effect, but also because of the higher insulation level built houses.

2 Increase replacement rate

Today's replacement rate is, on average, 1% of the total number of heating systems installed per year and meeting the minimum target would require that replacement ratio to double within the coming 10 years.
Substituting heating devices with more efficient ones will constitute a move towards reducing CO_2 emission. The challenge however is to motivate EU citizens to choose renewable heating more often, thereby convincing those in the replacement market that heat pumps are an efficient, cost-effective and established solution.



Heat pumps start to play a crucial role in decarbonizing Europe, and in certain areas there has already been an impressive uptake. For example, heat pumps are the default heating system in Sweden and enjoy 50% of the market share in new builds in some European countries.

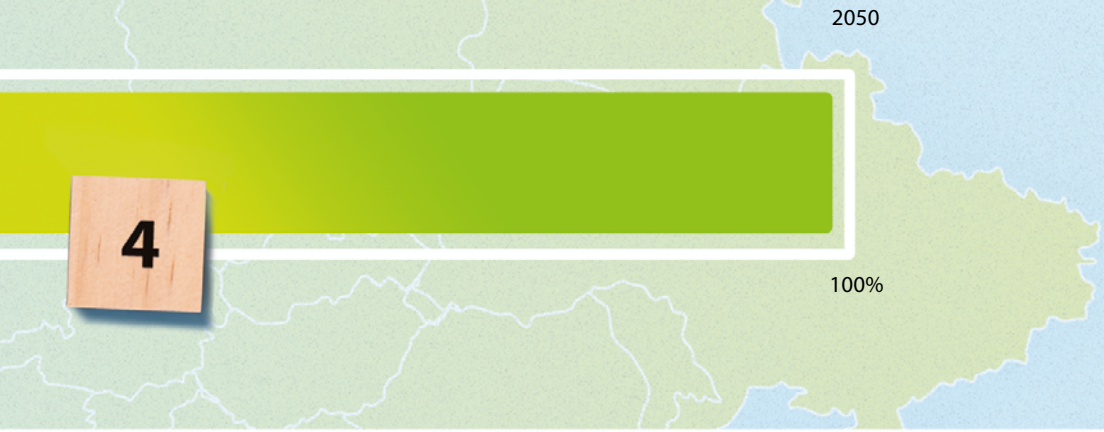
However, in the whole of Europe, renewable heating via heat pumps represents only 10% of all heating systems installed annually. This contrasts sharply with the EU Commission's ambitious target by 2030: 40% penetration of renewables in heating and cooling. At Daikin, we see the solution will be to take 4 steps to decarbonizing residential heat, in order to achieve the EU Commission's targets by 2030.

3 End fossil fuel incentives

Policy makers could avoid incentives for fossil fuels. Currently, direct or indirect incentives benefit oil or gas-based boilers, due to different taxation of heat pumps compared with boilers for instance.
While doing this, the gap between today's electricity and gas prices in many member states is too high to make a heat pump an economically attractive investment for EU citizens. In the short term, government incentives can help accelerate the transition to carbon-neutral heating and make heat pumps accessible to all Europeans, but in the longer term more balanced energy prices and a correct indication of the energy and carbon performance of a building need to support the end user motivations to invest in heat pump technology.

4 Renewable heating standard in replacement

At Daikin, we believe heat pump systems have to become the standard when replacing heating systems. It is a fact that heat pumps are increasingly capable of high efficiencies, even at lower outdoor temperatures.
The hydronic heat pump technology has developed quickly in recent years, making it fit for any type of residential building in Europe whether it is for the new build market or the replacement market.
By increasing the share of green electricity to 60% of total EU electricity production, heat pumps will continue to increase their contribution to a decarbonized residential heating world.



The future

At Daikin we're excited and passionate about taking on the changing environment and playing a key role in bringing this innovative technology into people's homes while ensuring all stakeholders, such as installers and architects, are on board.
We can do our bit as well by making installation as simple as possible through great design. Europe has the technology, the expertise and the investments to expand the heat pump market further. From single family to multi-family homes, from small to large commercial buildings and industrial plants, heat pumps today are ready to go mainstream.
All the signs are indicating that we need to act now! Let's convince those in the replacement market that heat pumps are the future and increase awareness regarding energy, cost-efficiency and environment-related advantages.

Stand By Me,

a journey to customer satisfaction

It's time to relax. With your customer's new Daikin installation and Stand By Me service programme, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me eliminates your clients' worries and provides them with a free, extended warranty, quick follow-up from Daikin service providers, and additional warranties for specific parts.

Discover in detail the Daikin Metroline

Have a detailed look at each stop to see how our tools can facilitate your journey with Daikin.

1

Residential Solutions Navigator
Provides you with leads that come with more in-depth details
Web portal · Consumer

2

Heating Solutions Navigator
Provide the best fit solution for your customers homes
Web portal · Professionals

3

Daikin e-Care
Access to registration, commissioning, configuration and trouble shooting
Mobile app · Professionals

4

Stand By Me
Manage your installation database and offer comfort and service to your customer
Web portal · Professionals

5

Onecta app
End-user app to control the residential unit
Mobile app · Consumer

NEW

Discover the new features

We keep investing in the support towards our installers. With your Daikin account, you have access to Stand By Me and the Heating Solutions Navigator online. Use the same account to access the Daikin e-Care app. The tools offer now new features, check it out!

Heating Solutions Navigator
Newest function:
- Multi-Family Home
- Daikin Home Controls

Residential Solutions Navigator
- Detailed Multi(+) calculation

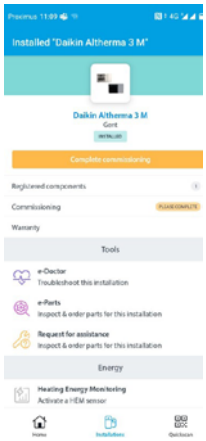
Stand By Me
Newest functions:
- Trainings for professionals (SBM CP Program)
- Direct Service offering from professionals to end-users via SBM (Daikin à la Carte)

Daikin e-Care
Newest function:
- Guided commissioning via online check list
- Support for trouble shooting
- Direct access to installation manuals
- Digital Key for Altherma 4

Guided commissioning via online checklist

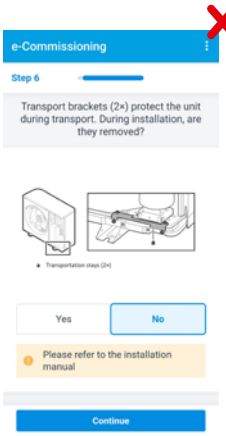
e-Commissioning is the latest tool released in the e-Care app, aiming to improve the quality and reliability of Daikin installations. It is a step-by-step checklist that assists service partners during the commissioning of the unit.

- Product-specific and country-specific checklist, to ensure maximum flexibility of use and compliance with local requirement
- Get instant feedback if there are problems with the checklist (screen will display an error message)
- Generated PDF report available at all times via the e-Care app or via the SBM professional portal
- Generated commissioning documents automatically sent to the end user in case of successful commissioning
- Possibility to save a draft of the checklist at any time
- Offline use
- Possibility to upload pictures of the installation site
- Possibility to add end user and professional signatures
- Available for Altherma units



e-Care installation details after Registration

Example of the correct answer

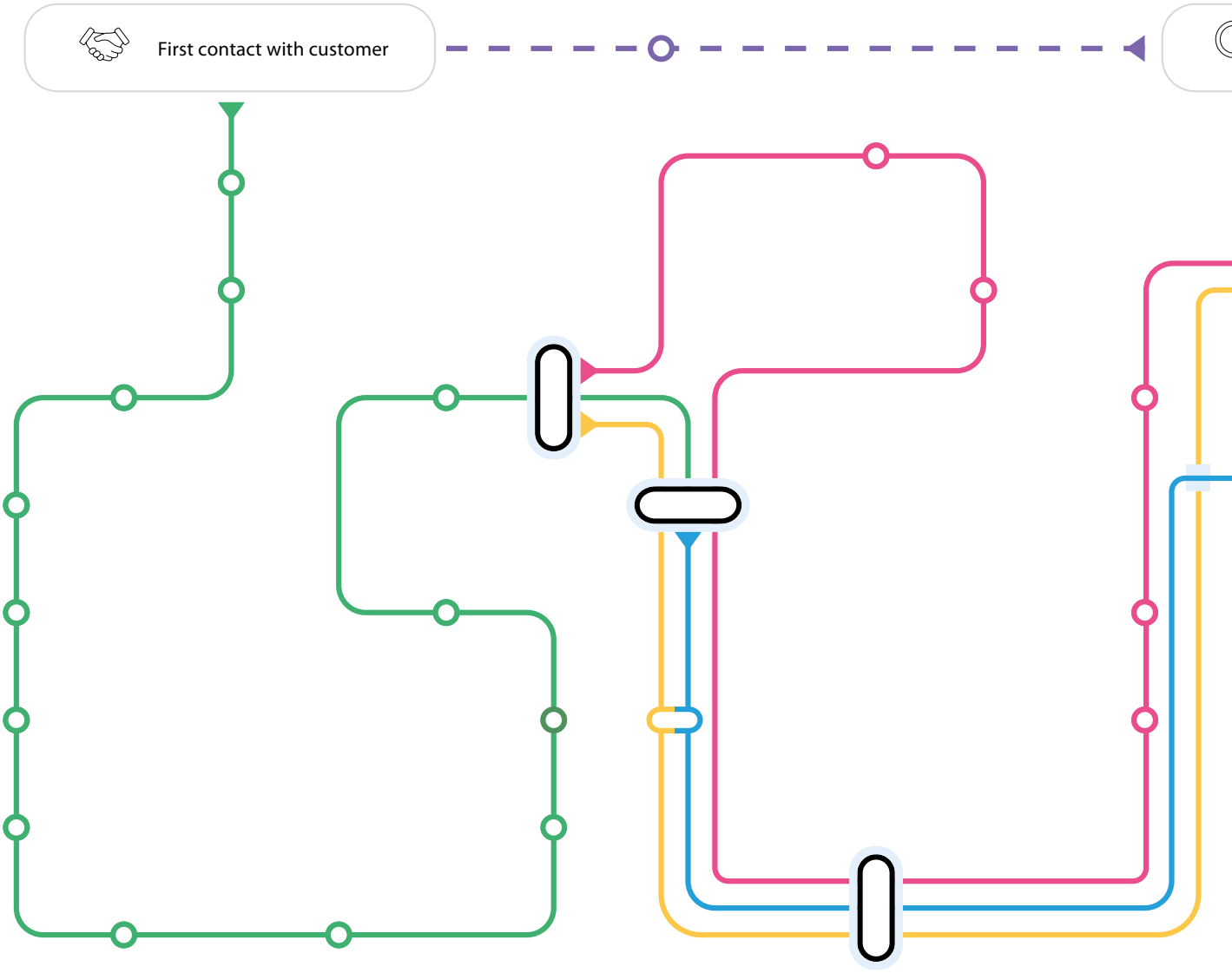


Example of the incorrect answer

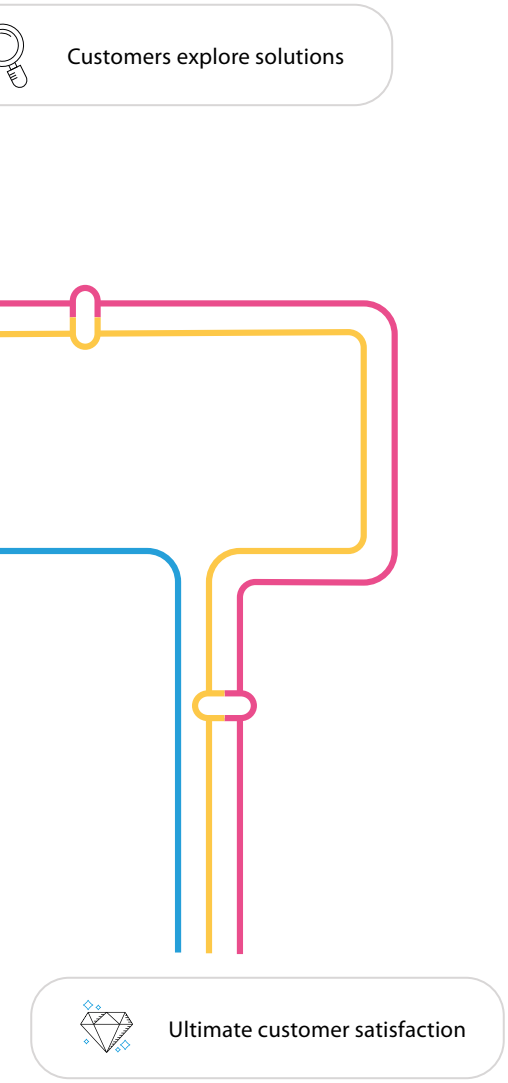
Scan the QR code to download Daikin e-Care now

Get on board on our train to ultimate customer satisfaction

On our underground map, you can discover all the tools we offer to Daikin installers to help them from the first point of contact with a new client, to the maintenance and repair after installation.



Scan the QR code or go to
http://metro.standbyme.daikin.eu for the tool



Heating Solutions Navigator

- Do the radiator test
- Simplified heat load
- Room by Room Heat Load Calculation
- Radiator selection
- Heatpump Convector
- End user quotation
- Piping & Wiring
- Thermal solar calculation tool
- Underfloor heating
- Pipe sizing
- Ventilation
- Literature
- Economic Viability Study
- e-Configuration tool
- Installation registration

Daikin e-Care

- e-Configuration tool
- Hydrobalancing tool
- Installation registration
- Commissioning tool
- Maintenance
- Maintenance guide
- e-Doctor
- Installation monitoring
- Spareparts ordering
- Repair

Stand By Me

- e-Configuration tool
- Installation registration
- Installation monitoring
- Warranty extension
- Maintenance
- Repair

Daikin ONECTA App

- Installation registration
- Warranty extension
- Maintenance
- Repair
- Remote control

Residential Solutions Navigator

- Residential Solutions Navigator

Stand By Me Certified Partner

Purpose of the programme

The programme was created to provide you and your customers **peace of mind**, ensuring **highest installation quality** and **after sales care** throughout the product lifespan.

We want to support our installer networks and provide you with **extensive training** given by Daikin professionals. Thanks to that, you will be able to **grow your business** with the **endorsement of a globally recognized brand**.

Benefits

- ☑ **Set yourself apart from the competition** with specialized knowledge to maximize installation speed, assure best quality and minimise the needs for call-backs after installation
- ☑ **Help you grow your business and expand your network** with an advanced product trainings, **strong technical foundation** and enhanced visibility with Stand By Me Certified Partner logo
- ☑ Customers **value highly qualified professionals** with **recognized certification**. You provide them with an additional label of trust along with comprehensive product lifespan care of Daikin Altherma units.
- ☑ **Access to the wearables, professional protective equipment and accessories exclusive** to the Stand By Me Certified Partner network.

Certification levels

The authorization level depends on your programme participation. As a Certified Partner you are granted to conduct after-sales services for a specific product range.

There are 2 different programmes:
- Programme 1 applies to Daikin Altherma units based on R-32 refrigerant
- Programme 2 applies to Daikin Altherma units based on R-290 refrigerant

Programme 1: Daikin Altherma - R-32 range

To perform maintenance/repair

Product Training
F-gas license neecessary to start this training

1 day

Classroom

L3

This training is necessary to perform maintenance and repair activities on R-32 products for contracts on Stand By Me platform that belong to the Daikin Altherma 3 series.

Programme 2: Daikin Altherma - R-290 range

To perform commissioning/maintenance/repair

Safety Training
Storage – transportation - installation

30 min.

Online

L1

→

Safety Training
Maintenance - repair - disposal

1 hour

Online

L2A

→

Safety Training
Maintenance - repair - disposal

1 day

Classroom

L2B

→

Product Training
F-gas license necessary to start this training

1 day

Classroom

L3

These trainings are necessary to perform commissioning, maintenance and repair activities on R-290 products that belong to the Daikin Altherma 4 series.

Join us!
Register to become a Certified Partner:

6 reasons to choose a heat pump

1 A heat pump increases the value of your property

The installation of heat pumps significantly enhances the Energy Performance Certificate (EPC) ratings of buildings in Europe, often improving them by one or two energy classes. This improvement leads to energy savings, increased comfort, and a better environmental profile, which can boost property values or rental fees by 2 to 8%.

2 Projections of savings on energy costs by heat pumps

The installation of a heat pump to substitute a natural gas boiler is expected to generate energy savings over 10 years. Energy savings are likely to grow at a steady pace over the years.
Daikin Europe conducted simulations to forecast energy prices, considering factors such as historical prices, the European Emission Trading System (ETS), and future carbon taxation. A case study estimated savings for a reference house with a heating demand of 10,000 kWh, showing that using a heat pump can save a total of €2,602 over the decade.

3 Overview of incentive schemes on heat pump technology

Although heat pumps may require a higher initial investment than traditional heating systems, they are often eligible for government incentives and premiums. To contrast climate change, many governments are phasing out gas and oil boilers and promoting low-carbon solutions like heat pumps. Historically, convincing homeowners to switch to heat pumps has been challenging, but rising gas prices and the availability of subsidies across Europe are increasing interest and acceptance. These subsidies significantly enhance the competitiveness of heat pumps, accelerating the transition to sustainable heating solutions.

4 Overview of a (possible) ban on conventional heating technology

The ban on conventional heating technologies (natural gas boilers) is, in many countries, part of the long-term pledge to achieve net zero emissions by 2050. European governments are progressing towards their net-zero emissions goals, with many countries committing to achieve this by setting measurable near-term milestones. One key milestone is the increase in zero-carbon-ready buildings, which means utilising renewable energy technologies like heat pumps and photovoltaic panels or depend on fully decarbonizable energy sources. As part of the REPowerEU plan, the European Commission aims to completely ban stand-alone fossil boilers by 2029 to enhance energy efficiency and accelerate the green transition.

5 Environmental impact of heat pumps

Heat pumps are vital for achieving the EU's decarbonization goals. A case study shows that Daikin heat pumps can be 2 to 24 times less carbon-intensive than gas boilers, leading to annual CO_2 savings of 0.2 to 2 tons, depending on the electricity grid.
The EU Green Deal aims to reduce greenhouse gas emissions by 55% by 2050. With buildings responsible for 40% of energy use and 36% of emissions, heat pumps provide a more efficient and eco-friendly solution. Benefits include high efficiency and reduced fossil fuel dependency, with projections indicating a reduction of 21 billion cubic meters in gas demand for heating by 2030.

6 Synergies among the usage of heat pumps with solar panel (PV) systems

A heat pump can enhance the self-consumption rate of a residential photovoltaic (PV) installation by about 10%, yielding annual financial benefits of €80 to €120, depending on energy prices. This is based on a Daikin case study of a 5 kWp PV system and a heat pump with a 250 liter tank in Belgium.
Combining heat pumps with PV panels allows households to use free solar electricity for heating and hot water, reducing reliance on gas. As feed-in tariffs decrease across Europe, maximizing self-consumption becomes increasingly important. The heat pump can utilize excess solar energy to heat domestic hot water, effectively acting as an "energy battery" by storing energy for later use.

To read full articles with in-depth analysis scan QR code and visit our website:

Daikin Altherma heat pump portfolio

Daikin's DNA is all about heat pumps. In residential heating, we offer a wide range of heat pumps from air-to-water to hybrid heat pumps, including ground source heat pumps. Daikin heat pumps can answer all need by providing the necessary comfort in space heating, space cooling or domestic hot water.

	R	H	M	**Single family** | small	**Single family** | large	**Multi family** | decentralised	**Multi family** | centralised
 Daikin Altherma 4 H		●		● ●	● ●		
 **Daikin Altherma 3** H HT / H MT / R MT	●	●		● ● ●	● ● ●	● ● ●	● ● ●
 **Daikin Altherma 3** R 11-16 kW	●			● ●	● ●	● ● ●	
 **Daikin Altherma 3 R** 4-8 kw	●			● ●	● ●	● ● ●	
 **Daikin Altherma 3 M** 4-8 kW			●	● ●	● ●	● ● ●	
 **Daikin Altherma 3 M** 11-16 kw			●	● ●	● ● ●		● ● ●
  **Daikin Altherma Add on Hybrid** (keep boiler, add monobloc heat pump			●	●	●	●	

		R	H	M	Single family | small	Single family | large	Multi family | decentralised	Multi family | centralised
	**Daikin Altherma 3 Geo**			●	● ● ●	● ● ●		
	**Daikin Altherma 3 WS**			●				● ●
	**Daikin Altherma Hybrid** R	●			●	●	●	

- ● New built
- ● Renovation
- ● Replacement

- R Refrigerant split units
- H Hydro split units
- M Monobloc systems

Heat Pumps

One solution, multiple combinations

Daikin Altherma product ranges can be combined with three different indoor units to connect to the outdoor unit, offering specific features to ensure heating, cooling and domestic hot water in your home.

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

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

Integrated DHW stainless steel tank model

DESIGN AWARD 2018

reddot award 2018 winner

Integrated ECH$_2$O DHW tank model

PLUS X AWARD Innovation High Quality Design Ease of Use Ecology

Wall mounted model

DESIGN AWARD 2018

reddot award 2018 winner

Advanced user interface

The Daikin Eye
The intuitive Daikin eye shows you in real time the status of your system.
Blue is perfect! Should the eye turn red, an error has occured.

Quick to configure
Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps.
You can even check if the unit is ready for use by running test cycles!

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

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

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

Reversible model

If cooling is needed, all three indoors have dedicated reversible models. Reversible means that the system can invert its way of working and provide cooling instead of heating. The cooling function requires a underfloor piping system or fan coil units.

Heating only model

The heating only model is standard in the Daikin product range and is available for all three indoor units. This means that your heating system provides space heating and domestic hot water.

Bizone model

Only the DHW stainless steel tank model has a dedicated bizone model: you can choose two independent zones with different emitters that need a different temperature level in different rooms (example: underfloor system in the living room and radiators in the bedroom upstairs).

Indoor units are applicable for:

Daikin Altherma 3 R (ERGA-E series, 4-6-8 kW)
Daikin Altherma 3 R (ERLA-D series, 11-14-16 kW)
Daikin Altherma 3 H MT/HT
Daikin Altherma 3 R MT
NEW Daikin Altherma 4 H (with 5" touchscreen)

Control with Onecta app

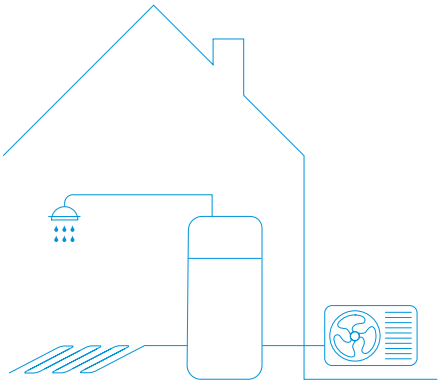
Discover more on page 294

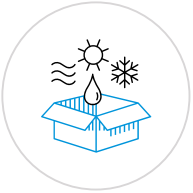
Indoor units

Floor standing unit

Why choose Daikin floor standing unit with integrated domestic hot water tank?

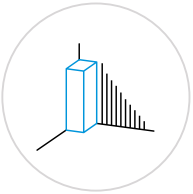
The Daikin Altherma floor standing unit is the ideal system to deliver heating, domestic hot water and cooling for renovation or large new built.





All in one system to save installation space and time

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump ensures a faster installation compared to traditional systems.
- Inclusion of all hydraulic components means no third party components are required.
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater choice of 6, 9 kW models are available
- Dedicated bi-zone models providing different water temperatures to zones with different needs, for example: underfloor heating on the ground floor and radiators on the upper floor.



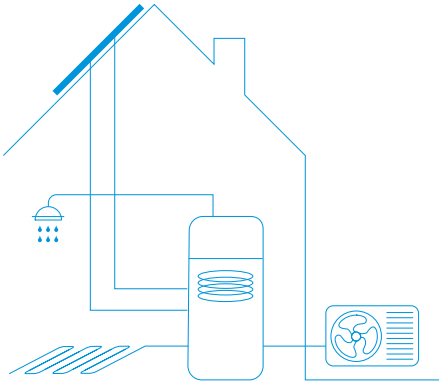
Reduces the installation footprint and height

- Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.
- For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.
- With unit height of 1.65 m for an 180 L tank and 1.85 m for a 230 L tank, the required installation height is less than 2m.
- The compactness is emphasised by its sleek design and modern look, easy blending in with other household appliances.

Indoor units

Floor standing unit with integrated ECH_2O tank

The Daikin Altherma with integrated ECH_2O tank is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling.



Innovative and high-quality tank

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

Intelligent storage management

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

Combinable with other heat sources

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

ECH_2O thermal store range: additional hot water comfort

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

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

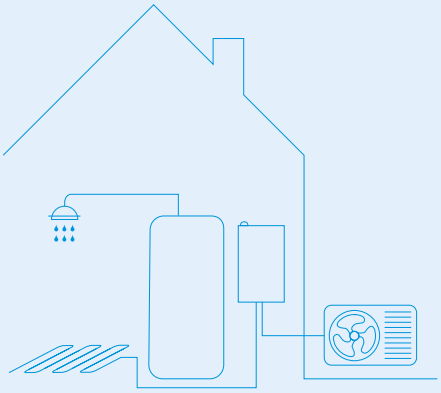
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Indoor units

Wall mounted unit

Why choose Daikin wall mounted unit?

The Daikin Altherma 3 wall mounted unit offers heating and cooling with high flexibility for a quick and easy installation, with an optional connection to deliver domestic hot water.



High flexibility for installation

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

Flexibility in providing domestic hot water connection

If the end user only requires hot water and installation height is limited, a separate stainless tank provides the required installation flexibility.

ECH$_2$O thermal store range: additional hot water comfort. Combine your wall mounted unit with a thermal store for additional hot water comfort.

- Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- Fit for future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace

Flexibility in providing space heating

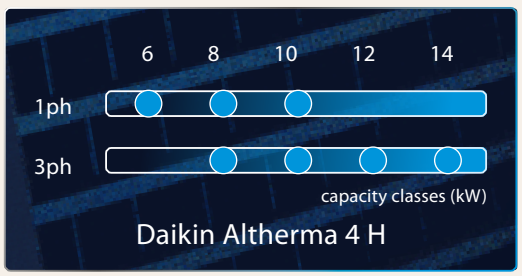
The wall mounted unit is the perfect choice in case the end user is looking for space heating or cooling while domestic hot water is provided by another system.

Daikin Altherma 4 H

New high temperature air-to-water heat pump, perfect for any house modernization

Daikin Altherma 4 H is an extremely efficient high temperature heat pump made to cover the needs of existing houses with traditional heating emitters.

Made for easy transition to more efficient, sustainable, comfortable and safe heating system.



Technology designed to boost performance to the next level

Engineered with in-house developed and produced key components, including a compressor and micro-channel heat exchanger, creates a synergy that ensures unmatched performance in all weather conditions.

High capacity
at cold ambient
Up to 13kW at -7/55°C

Up to
75°C

LWT at 75 °C
down to -15 °C

Low sound:
down to 28 dBA at
3 meters distance

Reliable cold climate operation
With best-in-class heating capacity, Daikin Altherma 4 H delivers 10.2 kW at 7/55°C (for 14kW unit), ensuring warmth when it matters most.

Daikin Altherma 4 operates down to -28°C even in the harshest conditions, providing consistent comfort no matter the weather.

Best replacement solution
Daikin Altherma 4 H is perfect for replacing fossil fuel boilers, as it fits seamlessly with existing radiators, delivering outstanding leaving water temperatures (LWT) of 70-75°C even at -15°C.

-28°

Operation range down
to -28 °C

up to A+++ (A+++ ↑ D)

At 55°C average climate

up to A+ (A+ ↑ F)

Domestic Hot Water

Setting new boundaries in heat pump technology

We introduce to you the first heat pump within this 4th generation, with R-290 refrigerant.

Every home deserves sustainable and cost-saving heating system. That's why in Daikin Altherma 4we put eco-friendly R290 refrigerant, Daikin developed compressor, and a fan to make it highly efficient. Enjoy the affordable warmth with no worries about energy bills. You can reduce the costs of house heating even up to 70%!

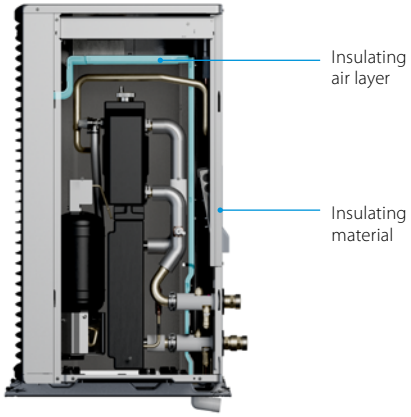
R-290 Refrigerant

R-290

- R-290 is a **category A3 refrigerant** (according to DIN EN 378).
- R-290 is similar in nature to the **A3 refrigerant R-600A** (isobutane), which is also widely used, and which is commonly used by manufacturers of white goods and the responsible logistics companies.
- The handling of A3 refrigerants is thus neither new nor unusual. However, some basic precautions must be taken during storage and transport.

Engineered for whisper-quiet operation.

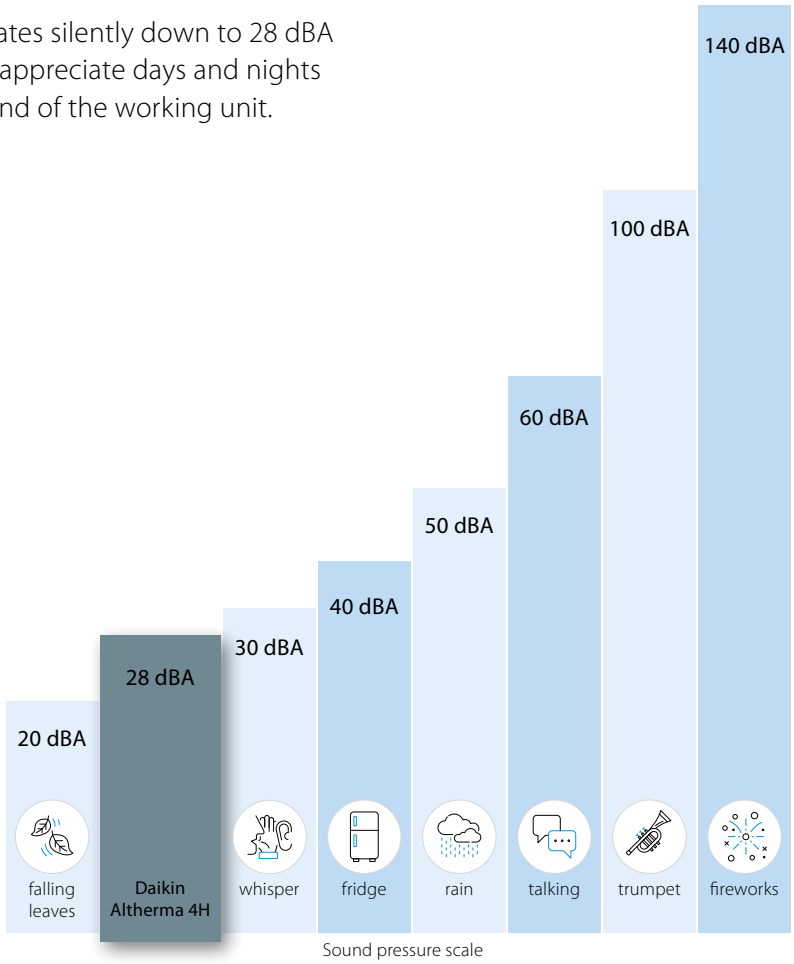
Equipped with new soundbox and improved insulation technology to ensure peaceful environment. The sound box is mounted on the bottom plate instead of on the anti-vibration plate, with increased insulation.



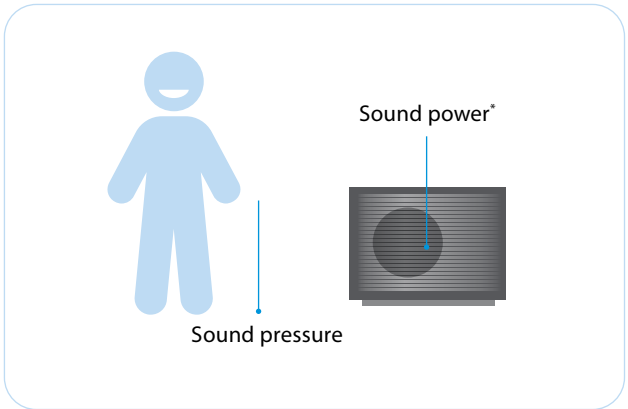
Innovative louvered grill was specially designed to minimize sound power to the impressive level of 50 – 54 dBA, ensuring uninterrupted peace

- Contemporary sleek design based on Daikin Altherma 3 award winning design
- Black louvered grill minimizes the visibility of the fan (made of >50% recycled plastics from industrial waste)
- Integrates seamlessly with the surrounding environment by reflecting the surroundings on its cover and side panels

Daikin Altherma 4 operates silently down to 28 dBA at 3 meters, so you can appreciate days and nights undisturbed by the sound of the working unit.



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

* Erp sound power:
  - class 06-08 – 45 dBA
  - class 10 – 47 dBA
  - class 12-14 – 52 dBA

Highest safety standards in the industry

At Daikin, safety is our top priority. The Daikin Altherma 4 H heat pump is designed to set new industry safety standards, incorporating advanced features such as a high-efficiency gas separator and factory-mounted anti-freeze valves.

These components, developed specifically for Daikin, ensure unparalleled safety and performance.

Sealed Switchbox:

- Placed away from the refrigerant connections, on top of the fan
- The full sealing prevents R-290 to get inside the switchbox

Gas leak sensor:

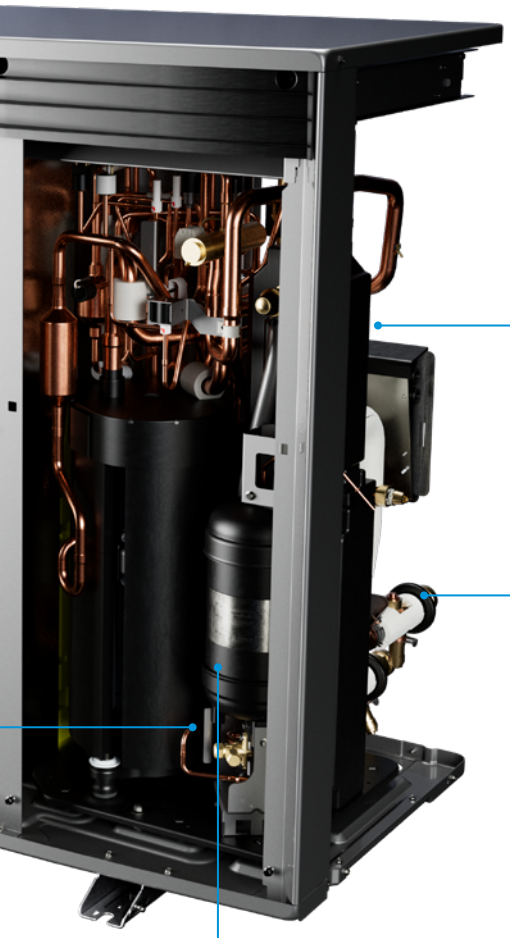
- Detects potential refrigerant leaks
- In case of leak detection, sensor automatically triggers the fan to run at maximum speed, effectively ventilating the area to prevent the buildup of a flammable gas cloud.
- Minimum hourly self-inspection check, ensuring ongoing protection.

Refrigerant vessel:

- Protects refrigerant against possible damage during storage and transportation, that might cause leakages
- After installation, R-290 is released into the refrigerant cycle
- **It can survive a 10 metres drop without leakage**

Gas separator:

- In the outdoor unit prevents R-290 to reach the indoor unit via the water circuit.



Anti-freeze valve:

- Protects the plate heat exchanger
- against freezing
- Avoids R-290 leaks going from the
- refrigerant circuit to the water circuit

Intelligent control

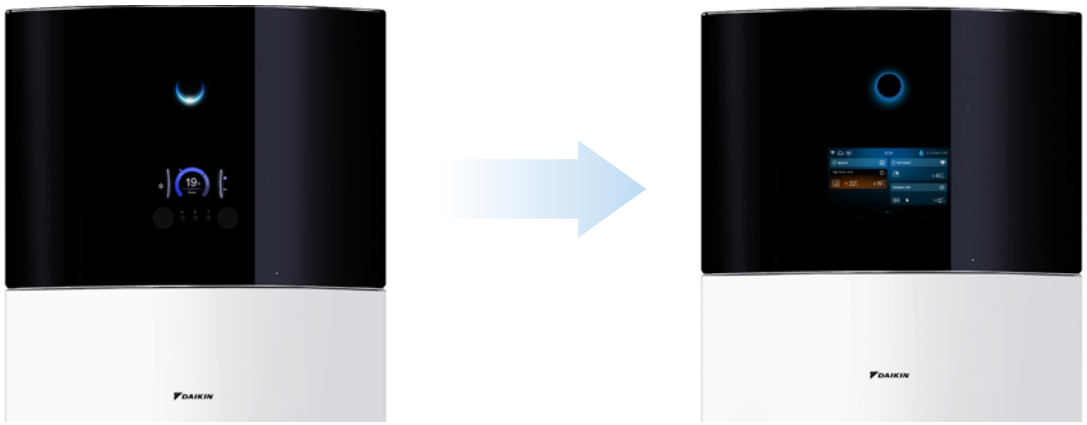
Straightforward and easy to use

Daikin's Altherma 4 H new intelligent control system is designed to enhance the user experience and installers efficiency.

With advanced features like a 5" color touch screen, streamlined commissioning, and remote troubleshooting functions, this system ensures reliable performance and easy management.

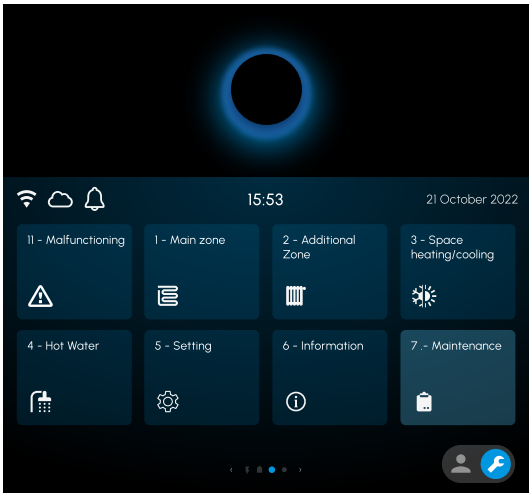
Tailored for installers, it offers secure settings access and future-proof technology, making it the ultimate choice for seamless installation and maintenance.

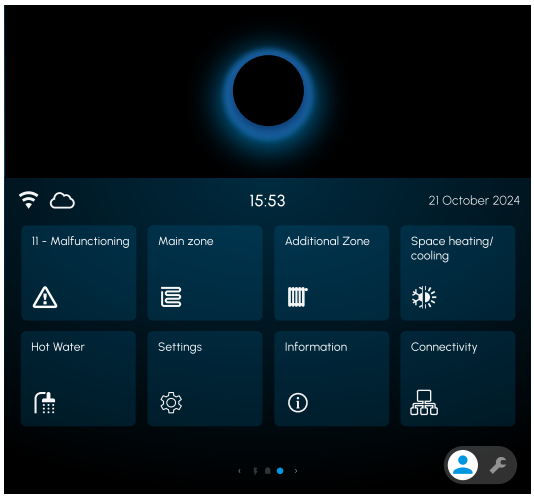
New intuitive **MMI 5" touchscreen** for better user experience.



NEW

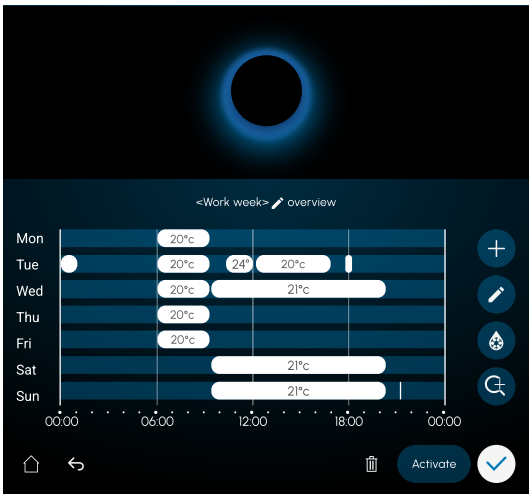
Easy customer access to main functionalities.

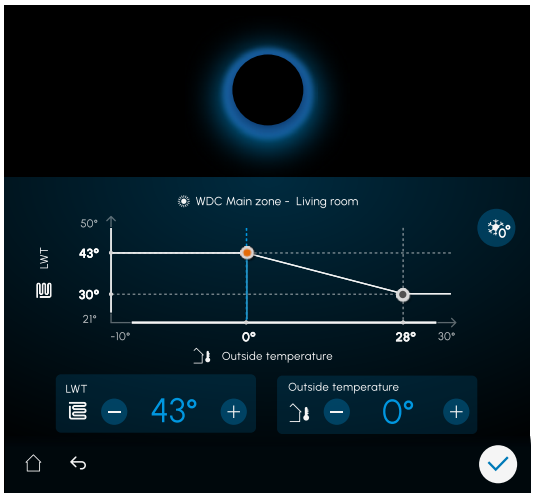




Installer settings only visible in installer mode

Block based easy scheduling for cooling and heating





Thanks to the Weather Dependent Curve – optimal comfort and high efficiency with automatically determined desired temperature.

Daikin Altherma 4 H

- Best-in-class heating capacity, ensuring warmth at cold ambient
- Outdoor unit extracts heat from the outdoor air, even at -28°C
- By heat pump operation only, the outdoor unit delivers a leaving water temperature of 70-75°C at -15°C ambient temperature
- Ultra low sound level of 50-54 dBA
- Choosing natural refrigerant R-290 product reduces the environmental impact, leading to lower energy consumption

EPSK-A

At 35°C average climate
At 55°C average climate

LWT 75°C
at -15°C

R-290

Outdoor Unit			EPSK	08AW1	10AW1	06AV3	08AV3	10AV3	12AW1	14AW1
Dimensions	Unit	HeightxWidthxDepth	mm	1,123x1,330x604						
Weight	Unit		kg	178		174			191	
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10 ~43						
	Domestic hot water	Min.~Max.	°CDB	-28 ~40						
Refrigerant	Type			R-290						
	GWP			3						
	Charge		kg	1					1.25	
	Control			Expansion valve						
Sound power level	Heating	Nom.	dBA	45 (1)	47 (1)	45 (1)		47 (1)	52 (1)	
	Cooling	Nom.	dBA	53	53.2 (2)	52.2 (2)	53	53.2 (2)	62	63
Sound pressure level	Heating	Nom.	dBA	32.4 (1)	32.8 (1)	32.6 (1)	32.4 (1)	32.8 (1)	38	
	Cooling	Nom.	dBA	37.2 (2)	37.3 (2)	36.9 (2)	37.2 (2)	37.3 (2)	47	48
Power supply	Name/Phase/Frequency/Voltage		Hz/V	W1/3~/50/400		V3/1~/50/230			W1/3~/50/400	
Current	Recommended fuses		A	16		25			16	

(1)Measured at LWC 47-55°C; Ta DB/WB 7°C/6°C. | (2)Measured at LWC 12-7°C; Ta 35°C. | 1 1/4" field piping | 1 1/2" field piping

Daikin Altherma 3 H MT & HT

Ideal boiler replacement

Ideal to replace gas boilers

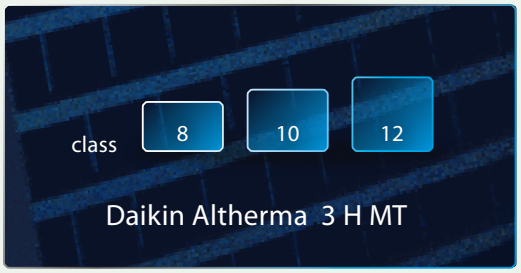
Houses built in the 90s often need a refurbishment to still look up-to-date.

In a renovation project, this is also important to consider changing your initial heating system.

Daikin Altherma 3 H MT comes as a perfect replacement in such houses, where a leaving water temperature of 65 °C is sufficient. Easy to install, you can even leave the recent radiators installed!

Suitable for medium sized new buildings

With a capacity range going from 8 to 12 class, Daikin Altherma 3 H MT also fits in medium sized new buildings.



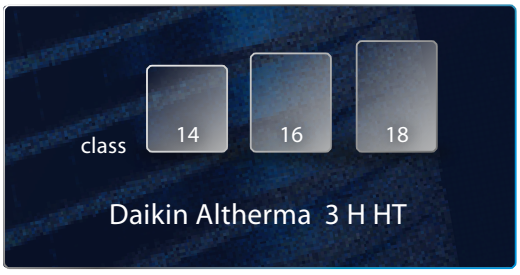
Ideal to replace oil boilers

Daikin Altherma 3 H HT is a high temperature heat pump, able to deliver a leaving water temperature of 70 °C. Thanks to this operation range, the unit can replace oil boilers in older houses.

Traditional radiators can also stay in place, but more recent radiators could be a good option in order to make further energy savings.

Suitable for large new buildings

With a capacity range going from 14 to 18 class, Daikin Altherma 3 H HT can answer the needs of large new buildings.



The Quintessence of heat pump

meeting modern society's expectations

Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 H MT & HT.

Heating capacities are also maintained high by low ambient temperature thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all new products. The Daikin Altherma 3 H HT was the first Daikin outdoor unit with a distinctive design. Its single fan reduces the noise level and its black front grille makes the unit fit into any environment.

All these dedicated components were developed in-house to make the quintessence of heat pump unique.

Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.

BLUEVOLUTION

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is one of the pioneers in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.

Easy to recover and re-use, R-32 is the perfect solution to attain the new European CO_2 emission targets.

R-32

Timeless design and space-saving installation

Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

The black front grille stretches horizontally making the fan inside invisible. The mat grey casing reflects the colour of the wall behind for more discretion. This unit received the IF and reddot design awards 2019.

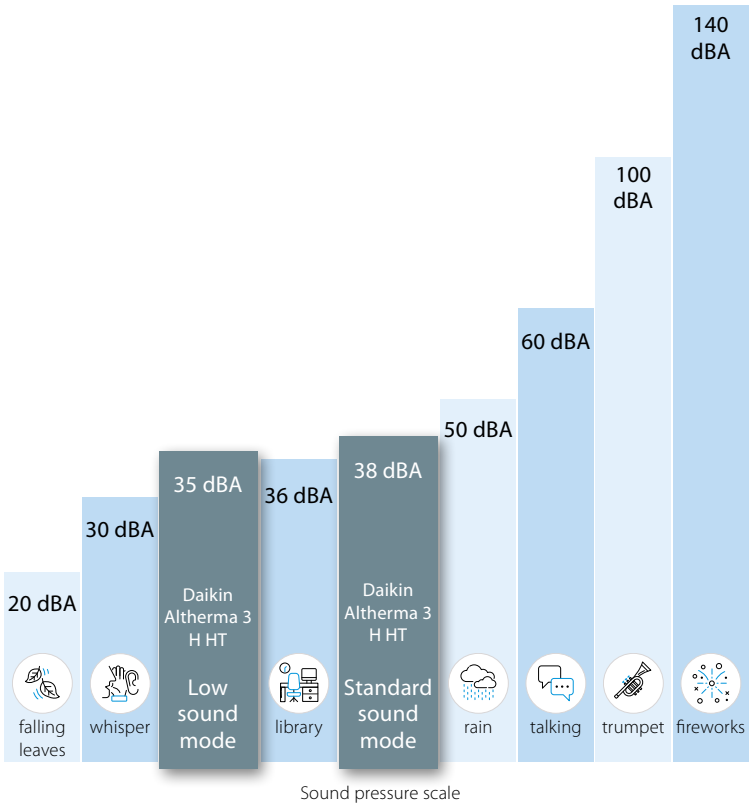
Witness a timeless design

Silence rhymes with comfort

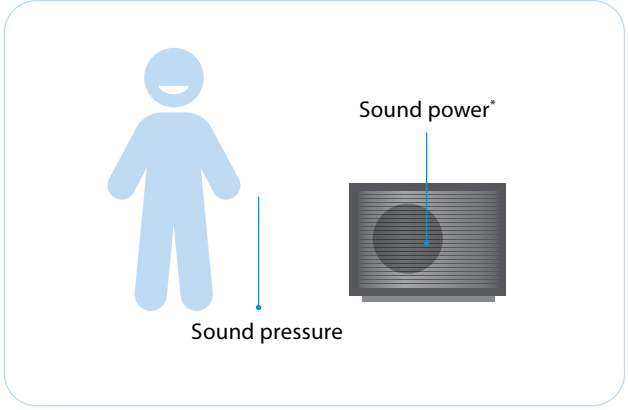
The Quintessence of heat pump has been designed to reduce its acoustic level and meet the expectations of today's society.

In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library.

The unit also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing a real reduction of half the sound level!



Sound pressure scale

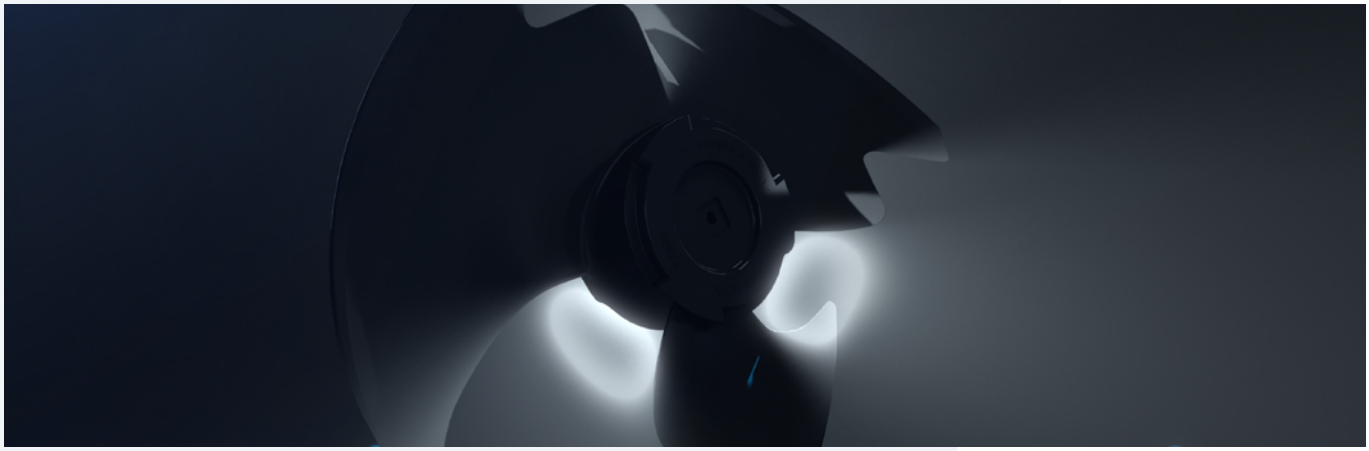


The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

Listen to the silence of our outdoor unit

* Erp sound power:
Daikin Altherma 3 H MT = 53 dBA
Daikin Altherma 3 H HT = 54 dBA



Innovation
at the heart of our concerns

The Daikin Altherma 3 H MT & HT are at top of low sound and heating performances thanks to dedicated developments. Several major components are designed to make this product reach the excellence such as a double injection compressor and a single fan even for large capacity units as well as a brand-new casing.

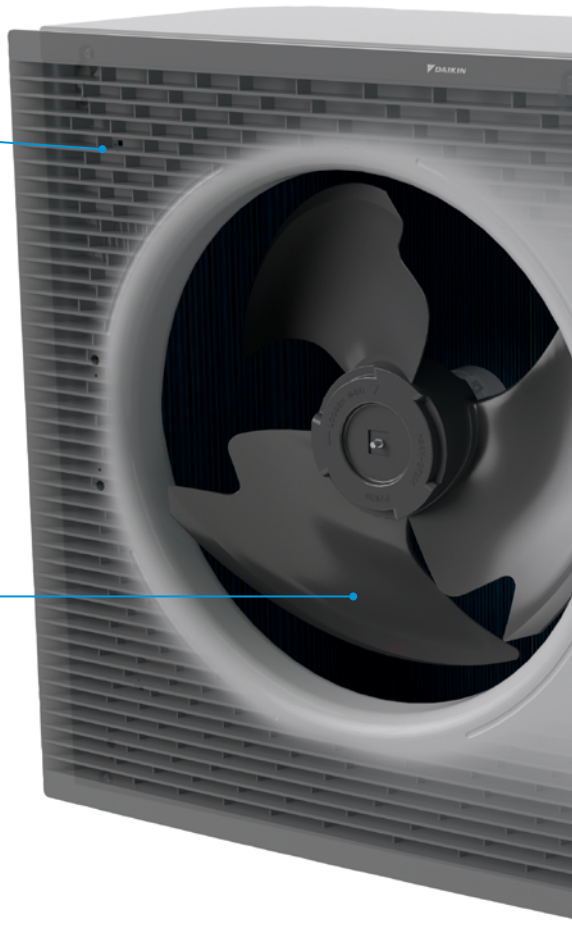
A redesigned casing
The black front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

This unique design already got design awards.

DESIGN AWARD 2019

reddot design award
winner 2019



A single fan for all capacities
The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 8-10-12-14-16-18).

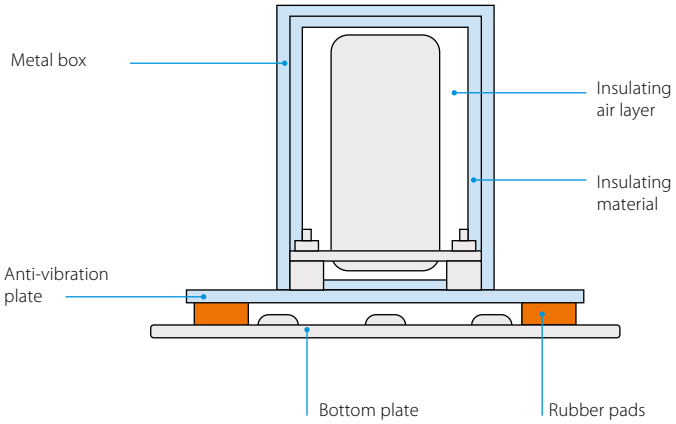
The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

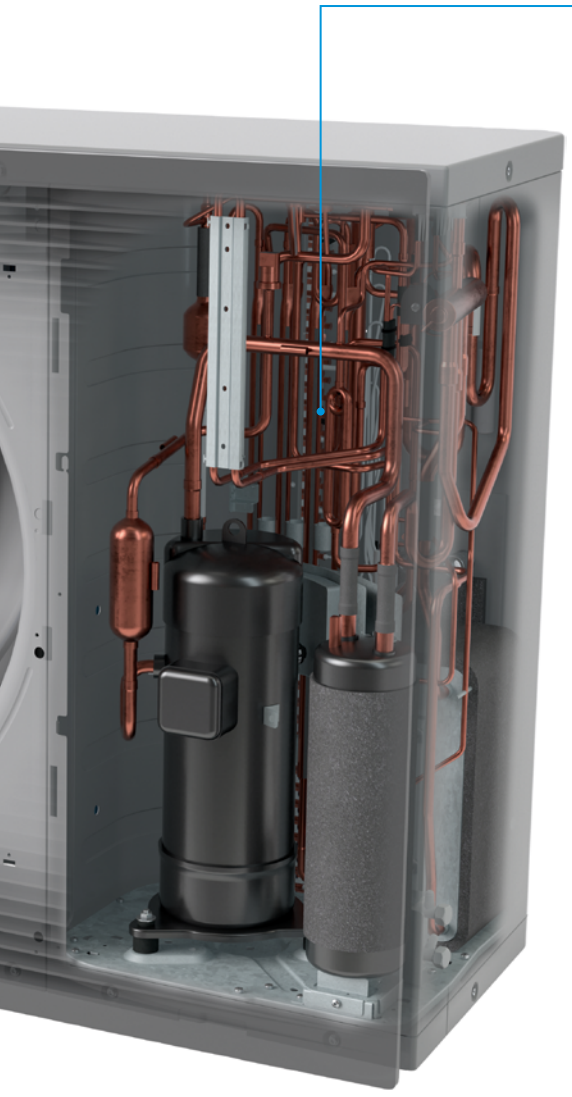
Compressor insulation and anti-vibration

To reduce the compressor sound power, several actions were taken in terms of absorption and insulation.

First, the compressor is surrounded by a 3-layer insulation made of air,
insulation material and a metal box.

Regarding the absorption, the unit benefits from a double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor.





New double injection compressor

To make this product unique, Daikin Europe cooperated with Daikin Japan to develop top notch components. The Daikin Altherma 3 H HT compressor is able to deliver a high leaving water temperature of 70 °C on its own, while the Daikin Altherma 3 H MT available in classes 8-10-12 delivers up to 65 °C leaving water temperature.

Impressive performance

With these new developments, the Daikin Altherma 3 H MT & HT reach the best performances illustrated in the energy labels:

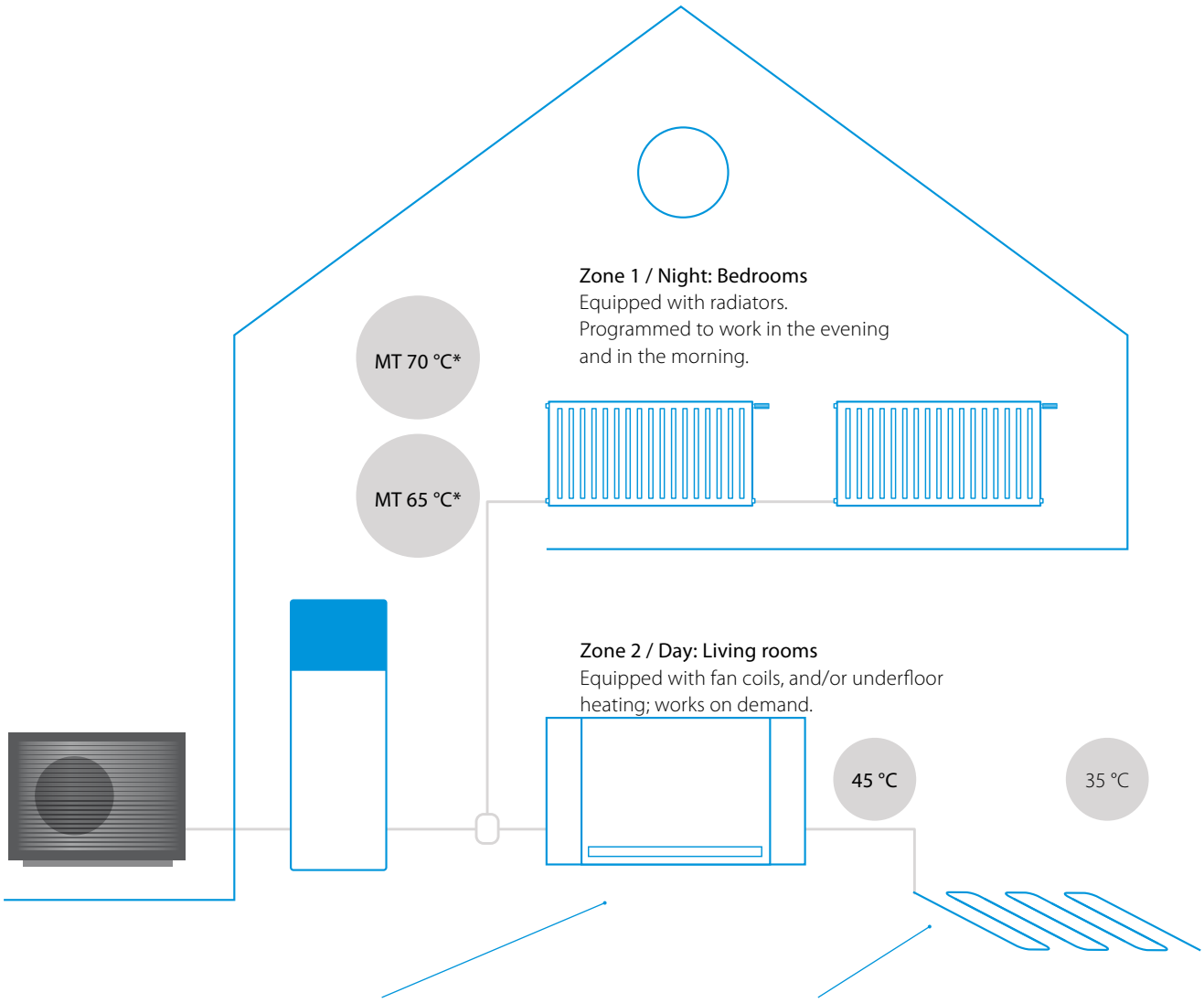
35 °C and 55 °C
Space heating

Feel a true performance

Get the best comfort

with the best functionalities

The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.



Daikin Altherma HPC (heat pump convectors) are hydronic emitters that can provide cooling or heating. They can be combined and are a perfect fit with underfloor systems.

Your **underfloor piping system** is designed to receive mid-temperature water to heat your home, but when the summer comes, the pipes can also receive colder water to refresh your environment.

* Daikin Altherma 3 H HT models produce a LWT up to 70 °C (14-16-18 classes). Daikin Altherma 3 H MT produces a LWT up to 65 °C (08-10-12 classes).

DESIGN AWARD 2018

reddot award 2018 winner

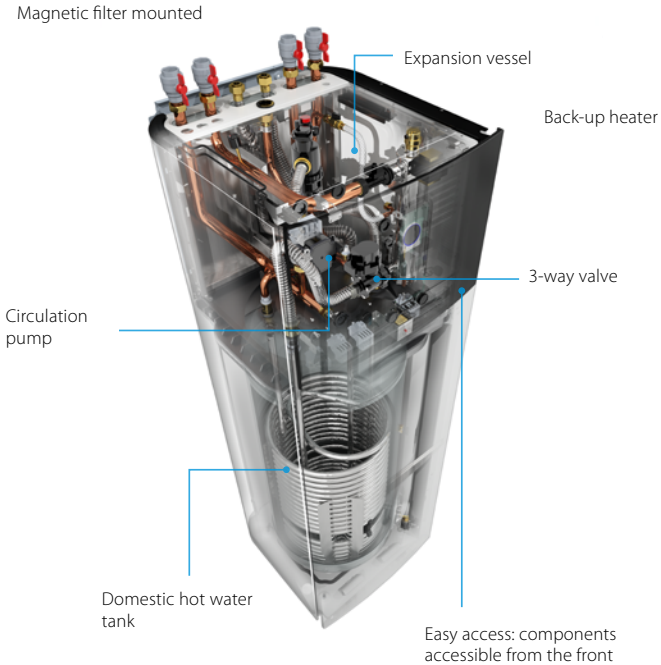
R-32

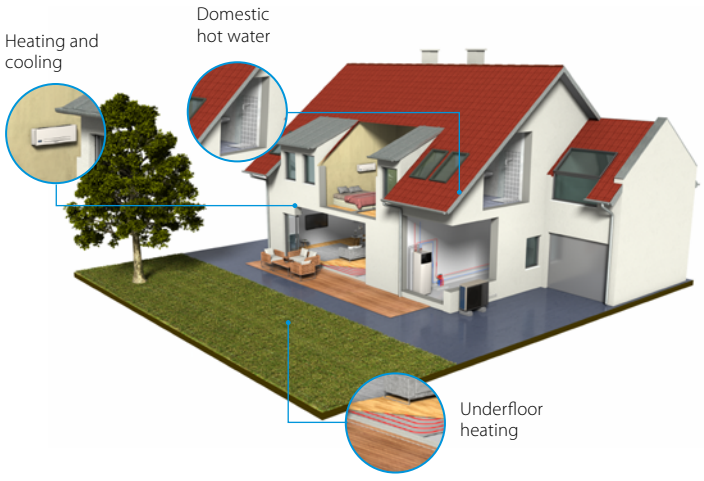
BLUEVOLUTION

Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.

Floor standing air to water heat pump for heating and hot water: ETVH units
Floor standing air to water heat pump for heating, cooling and hot water: ETVX units
Floor standing integrated with two different temperature zones monitoring: ETVZ units

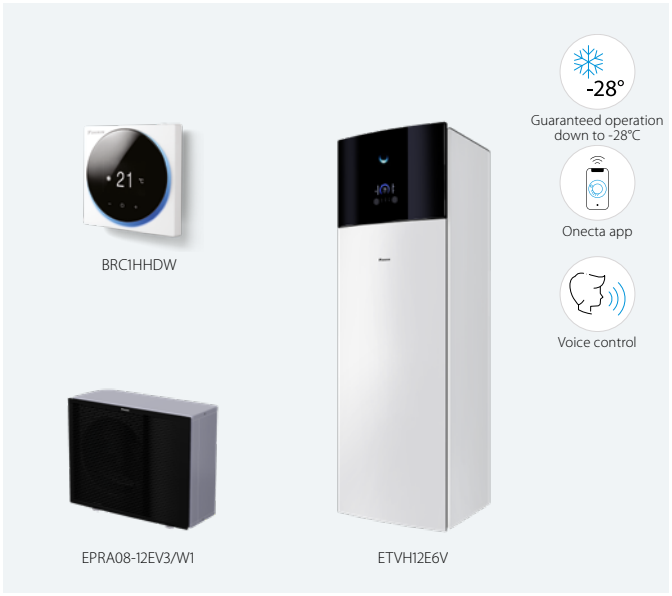




Daikin Altherma 3 H MT F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW



011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVH12E6V ETVH12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				**ETVH + EPRA**	**12S18E6V/E9W + 08EV/W**	**12S23E6V/E9W + 08EV/W**	**12S18E6V/E9W + 10EV/W**	**12S23E6V/E9W + 10EV/W**	**12S18E6V/E9W + 12EV/W**	**12S23E6V/E9W + 12EV/W**
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency)		%	117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class			A+					

Indoor Unit				**ETVH**	**12S18E6V/E9W**	**12S23E6V/E9W**	**12S18E6V/E9W**	**12S23E6V/E9W**	**12S18E6V/E9W**	**12S23E6V/E9W**
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	108	117	108	117	108	117
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 65					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				**EPRA**	**08EV3/W1**	**10EV3/W1**	**12EV3/W1**
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW

011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVH16E6V7 ETVH16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVH + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
		ηwh (water heating efficiency)		%	110/106	108/107	110/106	108/107	110/106	108/107
		Water heating energy efficiency class			A					

Indoor Unit				ETVH	16S18E6V7/E9W7	16S23E6V7/E9W7	16S18E6V7/E9W7	16S23E6V7/E9W7	16S18E6V7/E9W7	16S23E6V7/E9W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	109	118	109	118	109	118
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT F

Floor standing air to water heat pump for **heating, cooling and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW

up to A+++ (A+++ ↑ D) | A+ (A+ ↑ F) | 65 °C | R-32

011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVX12E6V | ETVX12E9W | EPRA08-12EV3 | EPRA08-12EW1

Efficiency data				ETVX + EPRA	12S18E6V/E9W + 08EV/W	12S23E6V/E9W + 08EV/W	12S18E6V/E9W + 10EV/W	12S23E6V/E9W + 10EV/W	12S18E6V/E9W + 12EV/W	12S23E6V/E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	188/195		190/196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency)		%	117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class			A+					

Indoor Unit				ETVX	12S18E6V/D9W	12S23E6V/D9W	12S18E6V/D9W	12S23E6V/D9W	12S18E6V/D9W	12S23E6V/D9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	108	117	108	117	108	117
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 65					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT F

Floor standing air to water heat pump for **heating, cooling and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW

011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVX16E6V7 ETVX16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVX + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
		ηwh (water heating efficiency)		%	110/106	108/107	110/106	108/107	110/106	108/107
		Water heating energy efficiency class			A					

Indoor Unit				ETVX	16S18E6V7/ E79W7	16S23E6V7/ E79W7	16S18E6V7/ E79W7	16S23E6V7/ E79W7	16S18E6V7/ E79W7	16S23E6V7/ E79W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	109	118	109	118	109	118
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW

up to A+++ D

A+ F

65 °C

R-32

011-1W0503
011-1W0504
011-1W0505
011-1W0506
011-1W0507
011-1W0508

ETVZ12E6V ETVZ12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETVZ + EPRA	12S18E6V/E9W + 08EV/W	12S23E6V/E9W + 08EV/W	12S18E6V/E9W + 10EV/W	12S23E6V/E9W + 10EV/W	12S18E6V/E9W + 12EV/W	12S23E6V/E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.82		4.71/4.69		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/184		186/191	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05	2.72/2.80	2.96/3.05
		ηwh (water heating efficiency)		%	117/120	126/130	117/120	126/130	117/120	126/130
		Water heating energy efficiency class			A+					

Indoor Unit				ETVZ	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W	12S18E6V/E9W	12S23E6V/E9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	114	122	114	122	114	122
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 65					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
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- PCB board and hydraulic components are located in the front for easy access
- Integrated back-up heater of 6 or 9 kW

011-1W0353-354
011-1W0357-358
011-1W0361-362

ETVZ16E6V7 ETVZ16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETVZ + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55	2.62/2.51	2.61/2.55
			ηwh (water heating efficiency)	%	110/106	108/107	110/106	108/107	110/106	108/107
			Water heating energy efficiency class		A					

Indoor Unit				ETVZ	16S18E6V7/ E9W7	16S23E6V7/ E9W7	16S18E6V7/ E9W7	16S23E6V7/ E9W7	16S18E6V7/ E9W7	16S23E6V7/ E9W7
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	120	128	120	128	120	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

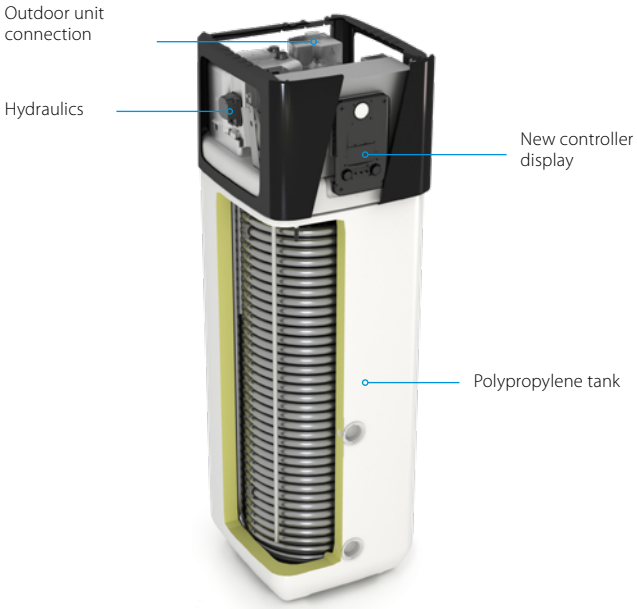
Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Floor standing unit with integrated ECH$_2$O tank

R-32 BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH$_2$O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.



Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: ETSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: ETSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: ETSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: ETSXB units

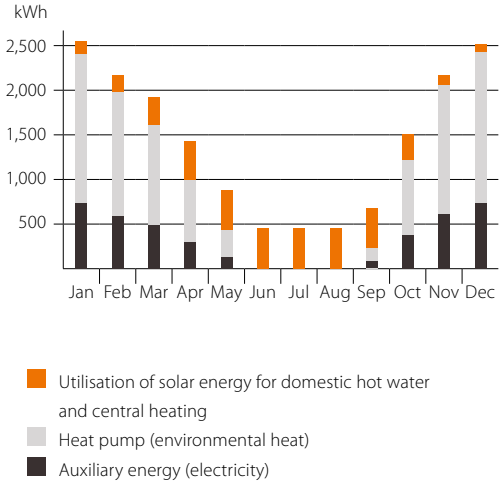
Pressureless (drain-back) solar system (ETSH*, ETSX*)

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

Pressurised solar system (ETSHB*, ETSXB*)

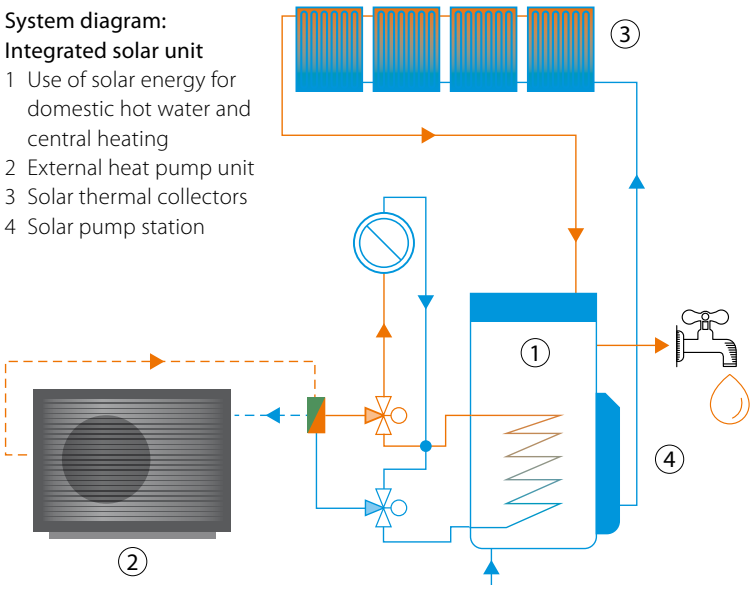
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

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



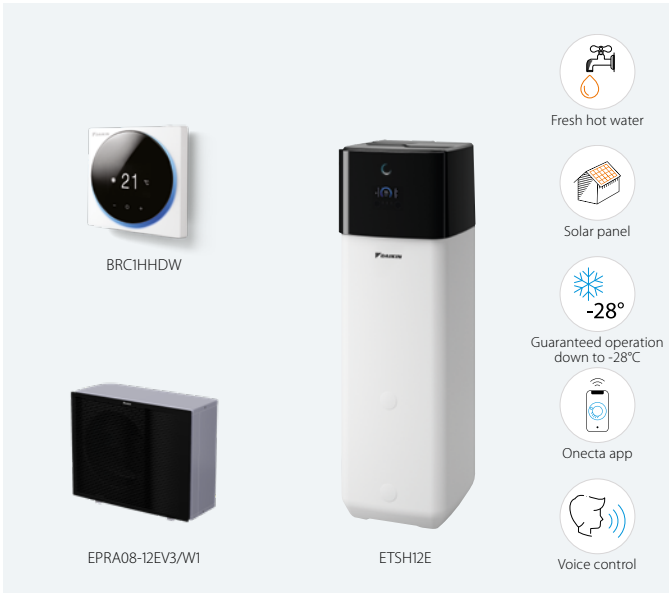
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ D | A+ F | 65 °C | R-32

011-1W0501
011-1W0502

ETSH12E | EPRA08-12EV3 | EPRA08-12EW1

Efficiency data				ETSH + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class			A+					

Indoor Unit				ETSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

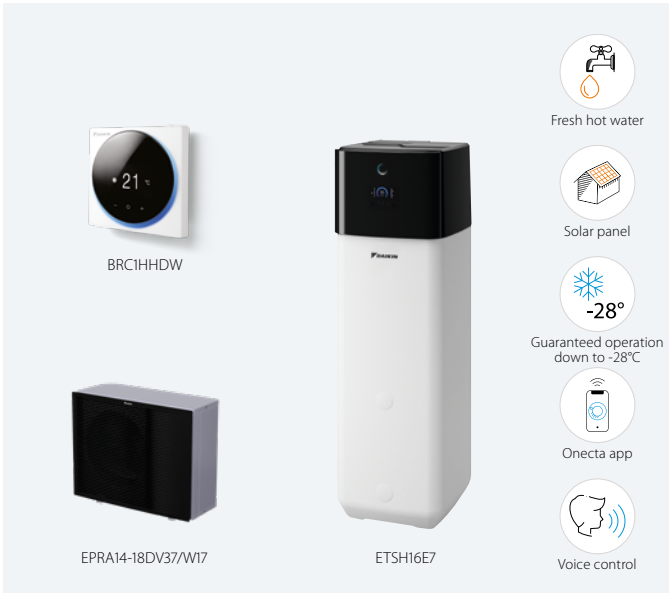
Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 H HT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system



up to A+++ / A+ — 70 °C — R-32

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSH16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSH + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
		ηwh (water heating efficiency)		%	124	125	124	125	124	125
		Water heating energy efficiency class			A					

Indoor Unit				ETSH	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

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Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0501
011-1W0502

ETSHB12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSHB + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class		A					
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class		A					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class			A					

Indoor Unit				ETSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

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- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSHB16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSHB + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
		ηwh (water heating efficiency)		%	124	125	124	125	124	125
		Water heating energy efficiency class			A					

Indoor Unit				ETSHB	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 35		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

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Daikin Altherma 3 H MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

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- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system

011-1W0501
011-1W0502

ETSX12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSX + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	189/195		190/196			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class			A+					

Indoor Unit				ETSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-28 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

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

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSX16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSX + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
			ηwh (water heating efficiency)	%	124	125	124	125	124	125
			Water heating energy efficiency class		A+					

Indoor Unit				ETSX	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	75	98	75	98	75	98
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

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011-1W0501
011-1W0502

ETSXB12E EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETSXB + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	189/195		190/196			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COPdhw			2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17	2.75/2.83	3.10/3.17
		ηwh (water heating efficiency)		%	116/119	128/131	116/119	128/131	116/119	128/131
		Water heating energy efficiency class								

Indoor Unit				ETSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	47.30					
Sound pressure level	Nom.			dBA	38.60					

Outdoor Unit				EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	118		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					53		
Sound pressure level (at 1 meter)	Nom.				40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses			A	32/16		

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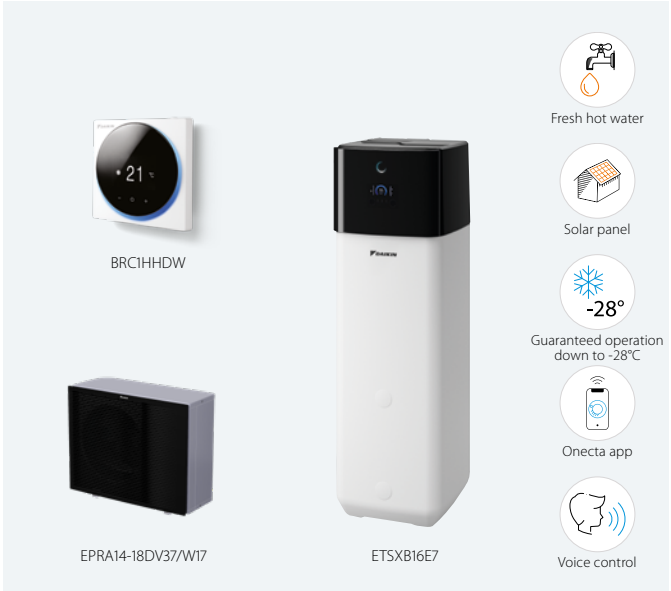


up to A+++ D | A+ F | 70 °C | R-32

011-1W0355-356
011-1W0359-360
011-1W0363-364

ETSXB16E7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETSXB + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99	2.86/2.85	3.00/2.99
			ηwh (water heating efficiency)	%	124	125	124	125	124	125
			Water heating energy efficiency class		A					

Indoor Unit				ETSXB	16P30E7	16P50E7	16P30E7	16P50E7	16P30E7	16P50E7
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816	1,892x594x644	1,910x792x816
Weight	Unit			kg	76	100	76	100	76	100
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	15 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	45.6					
Sound pressure level	Nom.			dBA	32.8					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43.0		48.0
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DESIGN AWARD 2018

reddot award 2018 winner

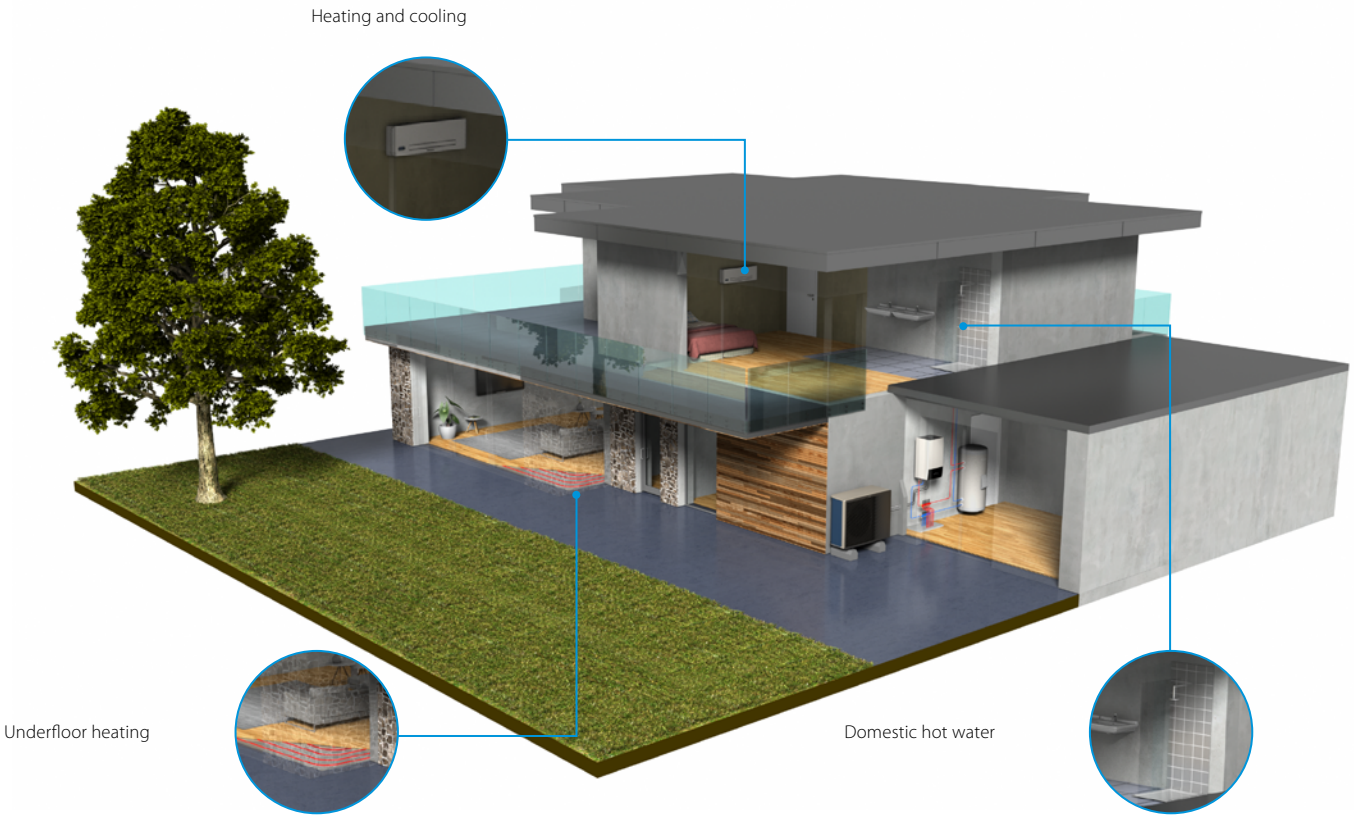
R-32

BLUEVOLUTION

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.

Wall mounted heating only air-to-water heat pump: ETBH units
Wall mounted reversible air-to-water heat pump: ETBX units



DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H MT W

Wall mounted **heating only** air-to-water heat pump

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

up to A+++ (A+++ to D)

65 °C

R-32

011-1W0506
011-1W0507
011-1W0508

ETBH12E6V ETBH12E9W EPRA08-12EV3 EPRA08-12EW1

Efficiency data				ETBH + EPRA	12E6V + 08EV/W	12E9W + 08EV/W	12E6V + 10EV/W	12E9W + 10EV/W	12E6V + 12EV/W	12E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.41/3.52		3.43/3.53			
			ηs (Seasonal space heating efficiency)	%	134/138					
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.69/4.81		4.71/4.84		4.71/4.84	
			ηs (Seasonal space heating efficiency)	%	184/190		186/191		186/191	
			Seasonal space heating eff. class							

Indoor Unit				ETBH	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	36.50					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit		kg	118		
Compressor	Quantity			1		
	Type			Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 25		
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.25		
	Charge		TCO2Eq	2.19		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				53		
Sound pressure level (at 1 meter)	Nom.			40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT W

Wall mounted **heating only** air-to-water heat pump

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

up to A+++ (A+++ to D)

70 °C

R-32

011-1W0353
011-1W0357
011-1W0361

ETBH16E6V7 ETBH16E9W7 EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETBH + EPRA	16E6V7 + 14DV7/DW7	16E9W7 + 14DV7/DW7	16E6V7 + 16DV7/W7	16E9W7 + 16DV7/W7	16E6V7 + 18DV7/DW7	16E9W7 + 18DV7/DW7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.58/3.57					
			ηs (Seasonal space heating efficiency)	%	140					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.51/4.71					
			ηs (Seasonal space heating efficiency)	%	177/186					
			Seasonal space heating eff. class		A+					

Indoor Unit				ETBH	16E6V7	16E9W7	16E6V7	16E9W7	16E6V7	16E9W7
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	42					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 70					
	Domestic hot water	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit		kg	146/151		
Compressor	Quantity			1		
	Type			Hermetically sealed scroll compressor		
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 35		
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	4.20		
	Charge		TCO2Eq	2.84		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				54		
Sound pressure level (at 1 meter)	Nom.			43		48
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 H MT W

Wall mounted **reversible** air-to-water heat pump

- Inclusion of all hydraulic components means no third party components are required
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- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
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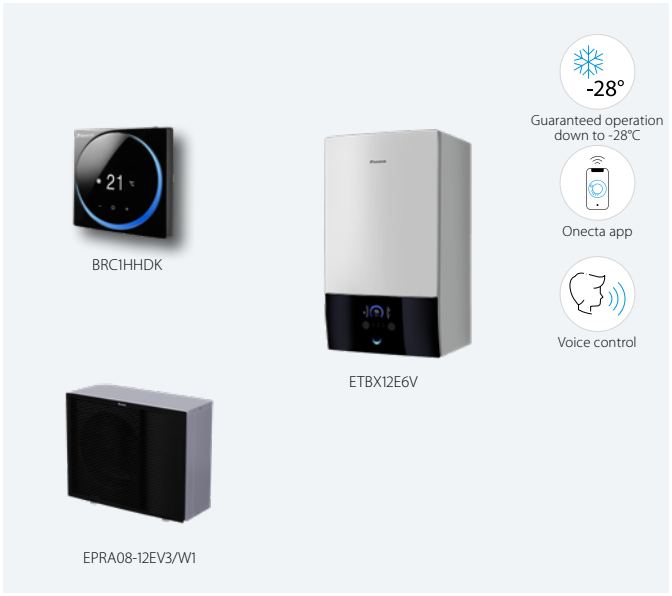

up to A+++ (A+++ to D)

65 °C

R-32

011-1W0506
011-1W0507
011-1W0508

ETBX12E6V | ETBX12E9W | EPRA08-12EV3 | EPRA08-12EW1

Efficiency data				ETBX + EPRA	12E6V + 08EV/W	12E9W + 08EV/W	12E6V + 10EV/W	12E9W + 10EV/W	12E6V + 12EV/W	12E9W + 12EV/W
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47/3.59		3.48/3.60			
			ηs (Seasonal space heating efficiency)	%	136/141					
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35 °C	General	SCOP		4.79/4.95		4.82/4.98			
			ηs (Seasonal space heating efficiency)	%	188/195		190/196			
			Seasonal space heating eff. class		A+++					

Indoor Unit				ETBX	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	36.50					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 25					
		Water side	Min.~Max.	°C	18 ~ 65					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			EPRA	08EV3/W1	10EV3/W1	12EV3/W1
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit		kg	118		
Compressor	Quantity			1		
	Type			Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.	°CDB	-28 ~ 25		
	Cooling	Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.25		
	Charge		TCO2Eq	2.19		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				53		
Sound pressure level (at 1 meter)	Nom.			40.60/41.10		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230 - W1/3~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 H HT W

Wall mounted **reversible** air-to-water heat pump

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- Combine with a stainless steel tank or ECH$_2$O thermal store

up to A+++ (A+++ to D)

70 °C

R-32

011-1W0353
011-1W0357
011-1W0361

ETBX16E6V ETBX16E9W EPRA14-18DV37 EPRA14-18DW17

Efficiency data				ETBX + EPRA	16E6V7 + 14DV7/W7	16E9W7 + 14DV7/W7	16E6V7 + 16DV7/W7	16E9W7 + 16DV7/W7	16E6V7 + 18DV7/W7	16E9W7 + 18DV7/W7
Space heating	Average climate water outlet 55 °C	General	SCOP		3.62/3.63					
			ηs (Seasonal space heating efficiency)	%	142					
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35 °C	General	SCOP		4.57/4.81					
			ηs (Seasonal space heating efficiency)	%	180/190					
			Seasonal space heating eff. class		A+++					

Indoor Unit				ETBX	16E6V7	16E9W7	16E6V7	16E9W7	16E6V7	16E9W7
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	42					
Operation range	Heating	Ambient	Min.~Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	18 ~ 70					
	Cooling	Ambient	Min.~Max.	°C	10 ~ 43					
		Water side	Min.~Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Max.	°C	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				EPRA	14DV37/W17	16DV37/W17	18DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533		
Weight	Unit			kg	146/151		
Compressor	Quantity				1		
	Type				Hermetically sealed scroll compressor		
Operation range	Heating		Min.~Max.	°CDB	-28 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-28 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	4.20		
	Charge			TCO2Eq	2.84		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				43		48
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 / W1/3~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Combination table and options

			H/O	
			3 H MT	3 H HT
			ETVH12S18E6V	ETVH16S18E6V7
			ETVH12S18E9W	ETVH16S18E9W7
			ETVH12S23E6V	ETVH16S23E6V7
Type	**Description**	**Material name**	**ETVH12S23E9W**	**ETVH16S23E9W7**
Outdoor unit		EPRA08EV3/W1	•	
		EPRA10EV3/W1	•	
		EPRA12EV3/W1	•	
		EPRA14DV37/W17		•
		EPRA16DV37/W17		•
		EPRA18DV37/W17		•
Controller	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•
	Wireless room thermostat	EKRTRB	•	•
	Wired digital thermostat	EKRTWA	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	•	•
	WLAN module	BRP069A71	•	•
	WLAN cartridge	BRP069A78	• (1)	• (1)
	Wired digital thermostat	EKWCTRDI1V3	•	•
	Wired analog thermostat	EKWCTRAN1V3	•	•
	Valve actuator	EKWCVATR1V3	•	•
	Wired underfloor heating base station	EKWUFHTA1V3	•	•
	Universal centralised controller	EKCC9-W, DCOM-LT/IO, LT/MB	•	•
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3		
		EKHWS(P)(U)180D3V3		
		EKHWS(P)(U)200D3V3		
		EKHWS(P)(U)250D3V3		
		EKHWS(P)(U)300D3V3		
	Polypropylene tank	EKHWP300B		
		EKHWP500B		
		EKHWP300PB		
		EKHWP500PB		
	Third party tank kit	EKHY3PART		
		EKHY3PART2		
Sensors	External sensor for EKRTR room thermostat	EKRTETS	•	•
	High voltage smart grid relay kit	EKRELSG	•	•
	Remote indoor temperature sensor	KRCS01-1	• (6)	• (6)
	Remote outdoor temperature sensor	EKRSCA1	• (6)	• (6)
Bizone kits	Generic Bizone kit (PCB only)	EKMIKPOA	•	•
	Generic Bizone kit	EKMIKPHA	•	•
Other options	Digital I/O PCB	EKRP1HBA	• (7)	• (7)
	Demand PCB	EKRP1AHT	•	•
	PC USB cable	EKPCCAB4	•	•
	Conversion kit H/O to reversible for floor standing	EKHVCONV4		•
	Conversion kit H/O to reversible for wall mounted	EKHBCONV	•	
	Booster heater kit	EKBH3SD		
	Anti-freeze valve with diam. 1"	AFVALVE1	•	•
	Anti-freeze valve with diam. 1 1/4"	AFVALVE125	•	•
	Balancing valve	KBLNVALVE		•
	Decoupler	KDECOUP		•
ECH$_2$O options	Inline BUH - connection kit	EKECBUCO1AF		
	Inline BUH - 3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V		
	Inline BUH - 6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V		
	Inline BUH - 9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W		
	Caleffi sludge and magnetite separator SAS1	156021		
	Biv Connector Kit	EKECBIVCO1AF		
	DB connector Kit	EKECDBCO1AF		

(1) W-LAN cartridge is supplied in the accessory bag of the unit => To be plugged in the SD-Slot on MMI-2 (In case bad reception of signal, the W-LAN cartridge can be removed and replaced by WLAN module).
(2) Dedicated connection kit: EKEPRHLT3HX.
(3) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(4) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(5) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.

Floor standing integrated stainless steel tank				Floor standing integrated ECH_2O		Wall mounted			
Reversible		Bizone				H/O		Reversible	
3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT	3 H MT	3 H HT
ETVX12S18E6V	ETVX16S18E6V7	ETVZ12S18E6V	ETVZ16S18E6V7	ETSH(B)12P30E	ETSH(B)16P30E				
ETVX12S18E9W	ETVX16S18E9W7	ETVZ12S18E9W	ETVZ16S18E9W7	ETSH(B)12P50E	ETSH(B)16P50E				
ETVX12S23E6V	ETVX16S23E6V7	ETVZ12S23E6V	ETVZ16S23E6V7	ETSX(B)12P30E	ETSX(B)16P30E	ETBH12E6V	ETBH16E6V7	ETBX12E6V	ETBX16E6V7
ETVX12S23E9W	ETVX16S23E9W7	ETVZ12S23E9W	ETVZ16S23E9W7	ETSX(B)12P50E	ETSX(B)16P50E	ETBH12E9W	ETBH16E9W7	ETBX12E9W	ETBX16E9W7
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						• (3)	• (3)	• (3)	• (3)
						• (4)	• (4)	• (4)	• (4)
						• (5)	• (5)	• (5)	• (5)
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• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)
• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)
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• (7)	• (7)	• (7)	• (7)			• (7)	• (7)	• (7)	• (7)
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(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW
(*No 6T1-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.

Daikin Altherma 3 R MT

The ideal boiler replacement gets extended

Ideal to replace gas boilers

Houses built in the 90s often need a refurbishment to still look up-to-date.

In a renovation project, this is also important to consider changing your initial heating system.

Daikin Altherma 3 R MT come as a perfect replacement in such houses, where a leaving water temperature of 65 °C is sufficient. Easy to install, you can even leave the recent radiators installed!

Suitable for medium sized new buildings

With a capacity range going from 8 to 12 class, Daikin Altherma 3 R MT also fit in medium sized new buildings.

Daikin Altherma 3 R MT offers multiple possibilities to adapt to your customers needs

- A leaving water temperature up to 65 °C makes it **a suitable choice for refurbishments**
- **Best seasonal efficiencies** providing the highest savings on running costs
- Perfect fit for **new buildings,** as well as for low energy houses

Refrigerant split version

Daikin Altherma 3 range presents a new addition to the family – refrigerant split version for medium temperature heat pump.

Daikin Altherma 3 R MT relies on a compressor and a refrigerant to transfer the energy from the air to the water. The Refrigerant split unit provides cooling next to heating and domestic hot water.

Better fit with hydrosplit versions?

The Daikin Altherma 3 solutions for replacment do come also in hydrosplit versions, 3 H MT and 3 H HT. More information can be found here:

The Quintessence of heat pump

meeting modern society's expectations

Made in Europe, for Europe

European weather can be tough sometimes. That's why we designed the Daikin Altherma 3 R MT.

Heating capacities are also maintained high by low ambient temperature thanks to genuine Daikin technology.

As the market leader, Daikin is always striving to make the most reliable and efficient heat pumps possible. Daikin developed the Bluevolution technology to achieve higher and greener performance. This technology is now part of all our heat pumps. Its single fan reduces the noise level and its black front grille makes the unit fit into any environment.

All these dedicated components were developed in-house to make the quintessence of heat pump unique.

Superior performance, renewable energy use, design and acoustic comfort. This is what the Quintessence of heat pump is all about.

BLUEVOLUTION

The Bluevolution technology combines a specifically developed compressor and the R-32 refrigerant. Daikin is one of the pioneers in the world to launch heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.

Easy to recover and re-use, R-32 is the perfect solution to attain the new European CO_2 emission targets.

R-32

Timeless design and space-saving installation

Aside from the acoustic comfort, design is a decisive point nowadays. Specific attention was paid to making the outdoor unit blend in with your home.

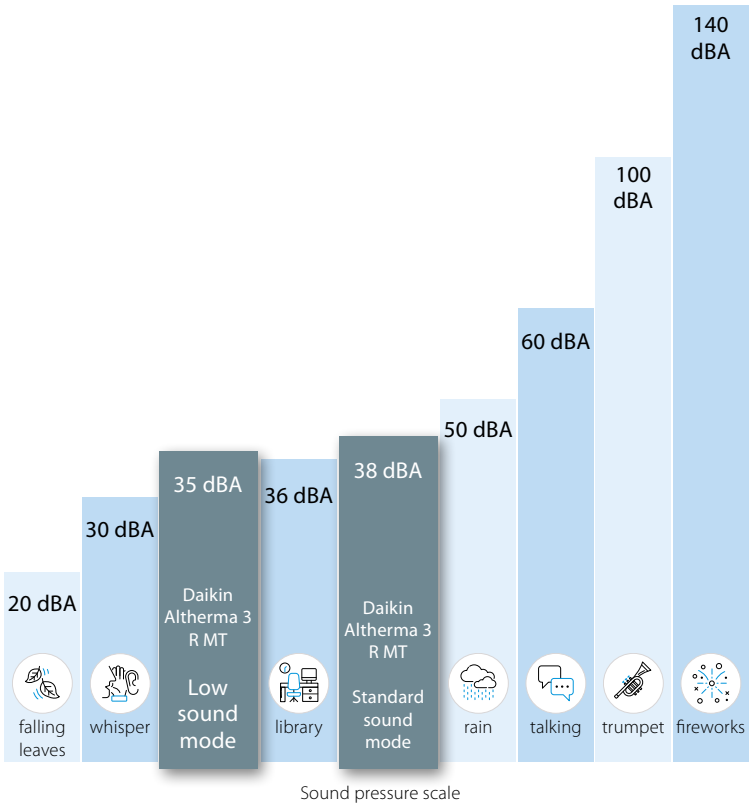
The black front grille stretches horizontally making the fan inside invisible.
The mat grey casing reflects the colour of the wall behind for more discretion.
When first launched, this unit received two design awards in 2019. This award winning design has been continued in the new models.

Silence rhymes with comfort

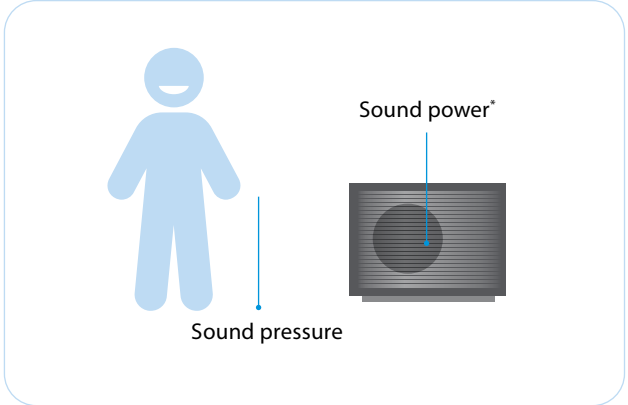
The Quintessence of heat pump has been designed to reduce its acoustic level and meet the expectations of today's society.

In standard sound mode, the unit produces a sound pressure of 38 dBA at 3 metres, so somewhere between birds chirping and the inside of a library.

The unit also offers greater flexibility by having a low sound mode that reduces the sound pressure at 3 metres to 35 dBA, representing a real reduction of half the sound level!



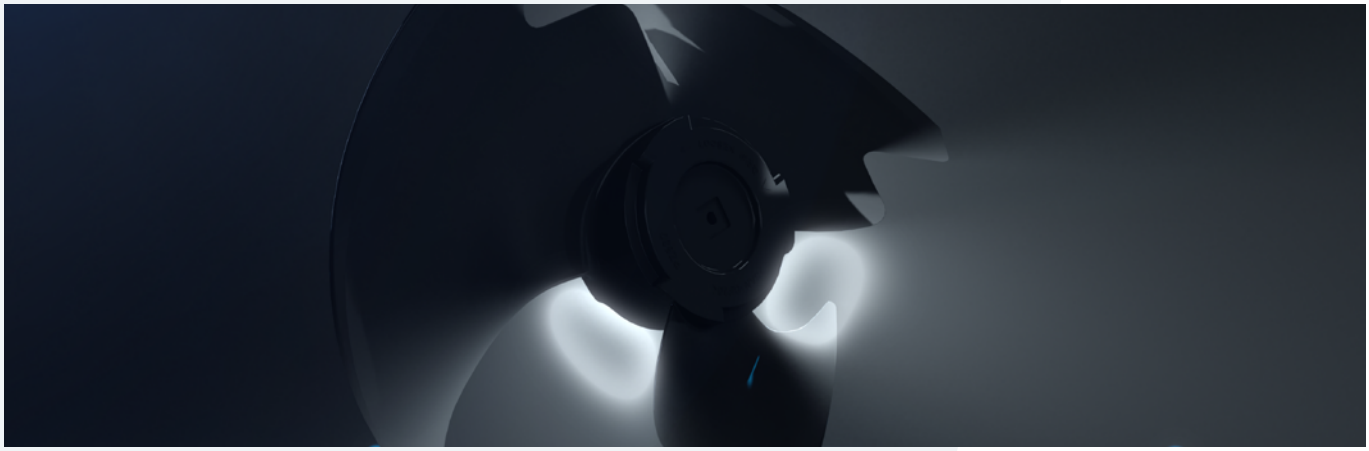
Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

* Erp sound power: Daikin Altherma 3 R MT: 56 dBA



Innovation
at the heart of our concerns

The Daikin Altherma 3 R MT is at top of low sound and heating performances thanks to dedicated developments. Several major components are designed to make this product reach the excellence such as a double injection compressor and a single fan even for large capacity units as well as a brand-new casing.

A contemporary design casing
The black front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is sligthly reflecting the environment where the unit is installed, helping it to blend in in any decor.

This unique design already got design awards.

DESIGN AWARD 2019

reddot design award
winner 2019

A single fan for all capacities
The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 8-10-12).

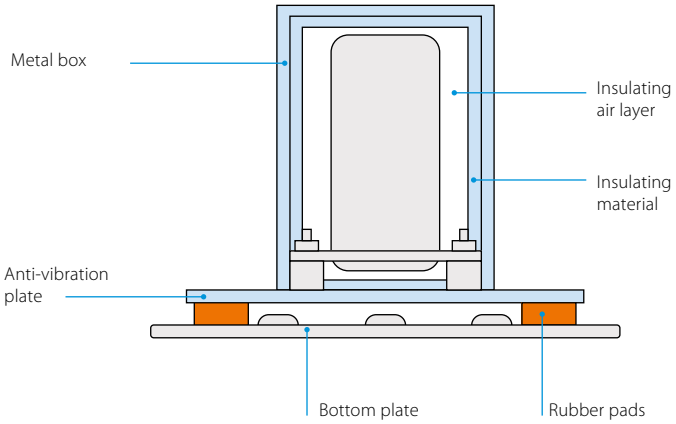
The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

Compressor insulation and anti-vibration

To reduce the compressor sound power, several actions were taken in terms of absorption and insulation.

First, the compressor is surrounded by a 3-layer insulation made of air, insulation material and a metal box.

Regarding the absorption, the unit benefits from a double sound reduction by using rubber pads between the bottom plate and the vibration plate under the compressor.



New double injection compressor

To make this product unique, Daikin Europe cooperated with Daikin Japan to develop top notch components.
Daikin Altherma 3 R MT is available in classes 8-10-12 delivers up to 65 °C leaving water temperature.

Impressive performance

In line with our other heat pump models optimized for replacement, the Daikin Altherma 3 R MT reaches the best performances illustrated in the energy labels:

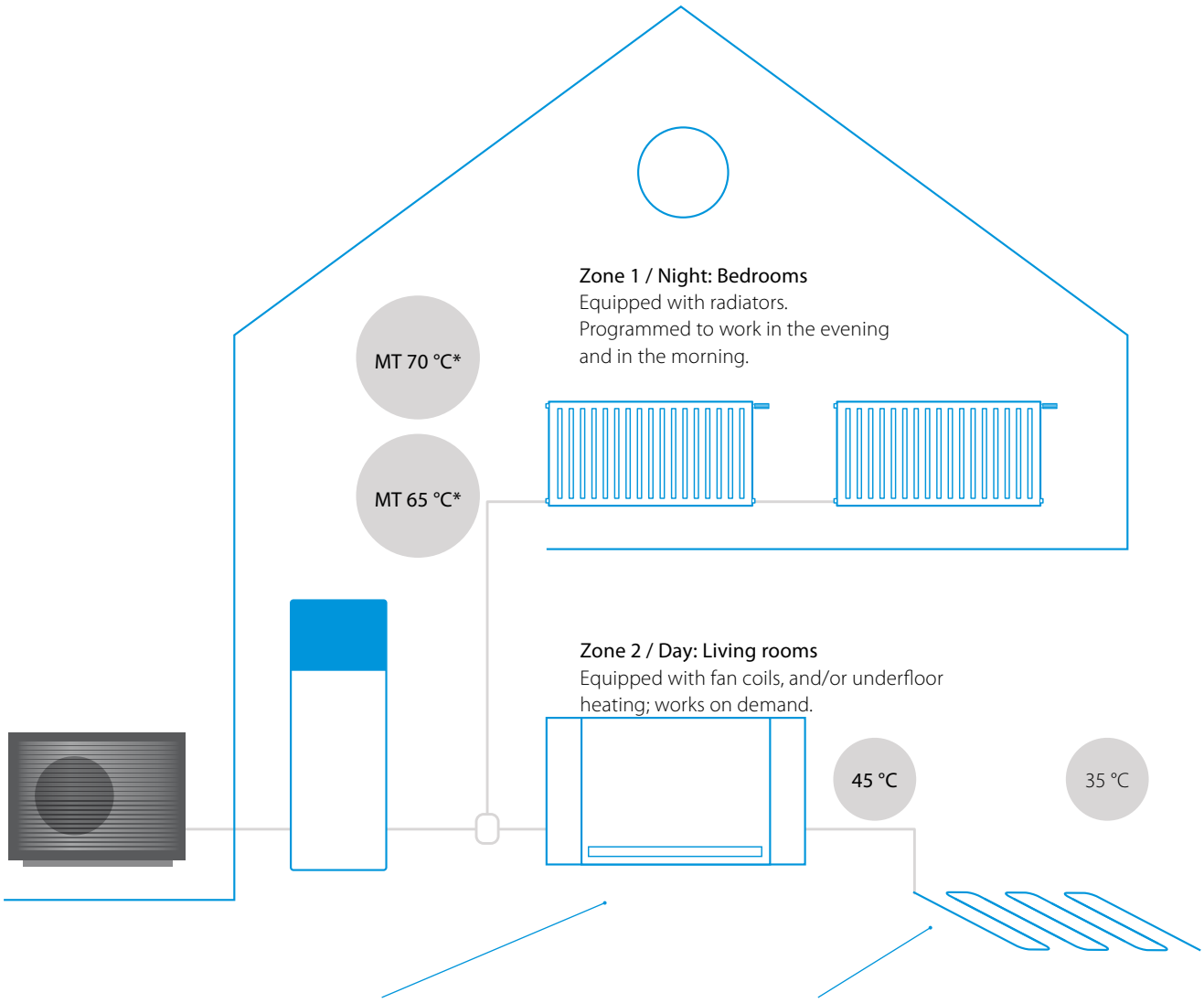
35 °C and 55 °C
Space heating

Feel a true performance

Get the best comfort

with the best functionalities

The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.



Daikin Altherma HPC (heat pump convectors) are hydronic emitters that can provide cooling or heating. They can be combined and are a perfect fit with underfloor systems.

Your **underfloor piping system** is designed to receive mid-temperature water to heat your home, but when the summer comes, the pipes can also receive colder water to refresh your environment.

* Daikin Altherma 3 R MT produces a LWT up to 65 °C (08-10-12 classes).

DESIGN AWARD 2018

reddot award 2018 winner

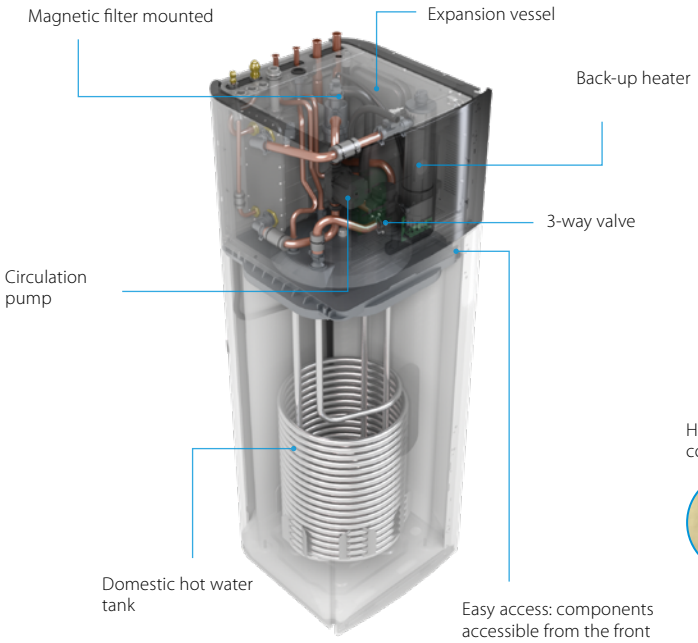
R-32

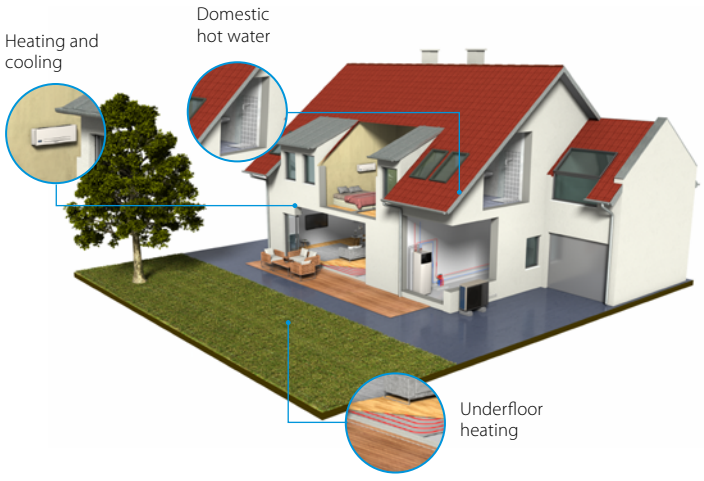
BLUEVOLUTION

Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.

Floor standing air to water heat pump for heating and hot water: ETVH units
Floor standing air to water heat pump for heating, cooling and hot water: ETVX units
Floor standing integrated with two different temperature zones monitoring: ETVZ units





Daikin Altherma 3 R MT F

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

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Energy efficient heating only system based on air to water heat pump technology
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVH-E6V ELVH-E9W ERRA08-12EW1

Efficiency data				ELVH + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class			A+					

Indoor Unit				ELVH	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

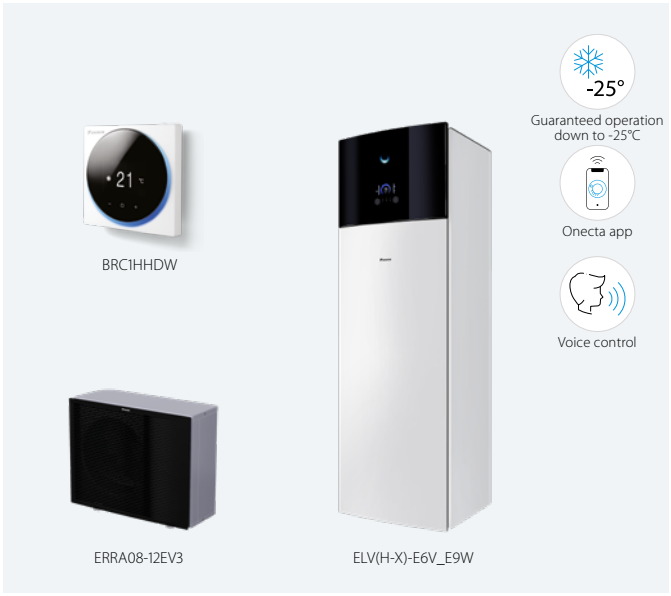
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

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

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Energy efficient heating only system based on air to water heat pump technology
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ A+++ ↑ D

A A+ ↑ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVH-E6V ELVH-E9W ERRA08-12EW1

Efficiency data				ELVH + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.34				3.44	
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184		186			
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%	117	126	117	126	117	126
		Water heating energy efficiency class					A+			

Indoor Unit				ELVH	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

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

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- For hot water, heating and cooling
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVX-E6V ELVX-E9W ERRA08-12EW1

Efficiency data				ELVX + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.58	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class								

Indoor Unit				ELVX	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Cooling		Min.~Max.	°CDB	10 ~ 43		
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

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

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- For hot water, heating and cooling
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVX-E6V ELVX-E9W ERRA08-12EW1

Efficiency data				ELVX + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%	117	126	117	126	117	126
		Water heating energy efficiency class			A+					

Indoor Unit				ELVX	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	120	129	120	129	120	129
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25		
	Cooling	Min.~Max.		°CDB	10 ~ 43		
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R MT F

Floor standing unit integrated with different temperature zones management

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Bi-zone allows temperature monitoring for 2 zones. Connect underfloor heating to radiators to optimise efficiency
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVZ-E6V ELVZ-E9W ERRA08-12EW1

Efficiency data				ELVZ + ERRA	12S18E6V/9W + 08EW1	12S23E6V/9W + 08EW1	12S18E6V/9W + 10EW1	12S23E6V/9W + 10EW1	12S18E6V/9W + 12EW1	12S23E6V/9W + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.58	
			ηs (Seasonal space heating efficiency)	%	134		134		138	
			Seasonal space heating eff. class		A+		A+		A+	
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+		A+			
Domestic hot water heating	General	Declared load profile			L					
	Average climate	COP		dhw	2.8	3.05	2.8	3.05	2.8	3.05
		ηwh (water heating efficiency)		%	120	130	120	130	120	130
		Water heating energy efficiency class			A		A		A	

Indoor Unit				ELVZ	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	133	141	133	141	133	141
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	08EW1	10EW1	10EW1	12EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating	Min.~Max.		°CDB	-25 ~ 25					
	Cooling	Min.~Max.		°CDB	10 ~ 43					
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					56					
Sound pressure level (at 1 meter)	Nom.				41.1					
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400					
Current	Recommended fuses			A	16					

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT F

Floor standing unit integrated with different temperature zones management

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Bi-zone allows temperature monitoring for 2 zones. Connect underfloor heating to radiators to optimise efficiency
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

up to A+++ D

A+ F

65 °C

R-32

011-1W0651
011-1W0652
011-1W0653
011-1W0654
011-1W0655
011-1W0656

ELVZ-E6V ELVZ-E9W ERRA08-12EW1

Efficiency data					ELVZ + ERRA	12S18E6V/9W + 08EV3	12S23E6V/9W + 08EV3	12S18E6V/9W + 10EV3	12S23E6V/9W + 10EV3	12S18E6V/9W + 12EV3	12S23E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP			3.34				3.44	
			ηs (Seasonal space heating efficiency)	%		130		131		135	
			Seasonal space heating eff. class					A+			
	Average climate water outlet 35 °C	General	SCOP			4.69		4.71			
			ηs (Seasonal space heating efficiency)	%		184		186			
			Seasonal space heating eff. class					A+			
Domestic hot water heating	General	Declared load profile				L					
	Average climate	COP		dhw		2.72	2.96	2.72	2.96	2.72	2.96
		ηwh (water heating efficiency)		%		117	126	117	126	117	126
		Water heating energy efficiency class						A+			

Indoor Unit				ELVZ	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W	12S18E6V/9W	12S23E6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	133	141	133	141	133	141
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EV3	08EV3	10EV3	10EV3	12EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Cooling		Min.~Max.	°CDB	10 ~ 43					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					54					
Sound pressure level (at 1 meter)	Nom.				40.6					
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230					
Current	Recommended fuses			A	32					

This product contains fluorinated greenhouse gases.

Floor standing unit with integrated ECH_2O tank

R-32

BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH_2O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.

Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: ELSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: ELSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: ELSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: ELSXB units

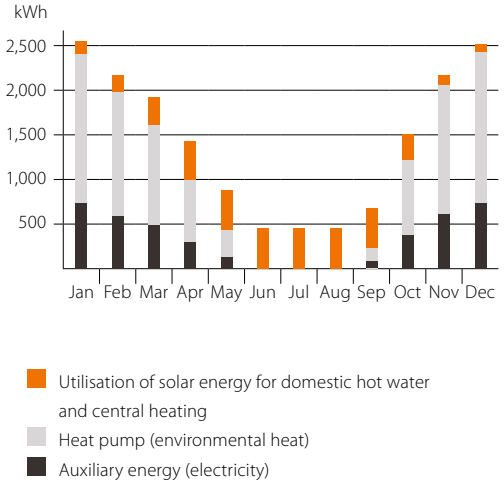
Pressureless (drain-back) solar system (ELSH*, ELSX*)

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

Pressurised solar system (ELSHB*, ELSXB*)

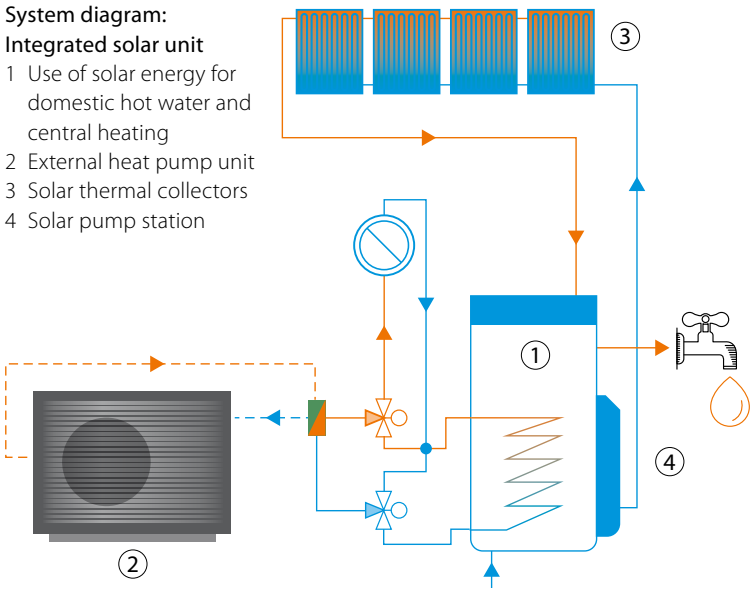
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

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



DAIKIN altherma

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Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection

011-1W0657
011-1W0658

ELSH-E ERRA08-12EW1

Efficiency data				ELSH + ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 12EW1	12P50E + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection

up to A+++ A+++ D | A+ A+ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSH-E ERRA08-12EV3

Efficiency data				ELSH + ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.44					
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184				186	
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSH	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

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Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot** water with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0657
011-1W0658

ELSHB-E ERRA08-12EW1

Efficiency data				ELSHB + ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 12EW1	12P50E + 12EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42		3.43		3.53	
			ηs (Seasonal space heating efficiency)	%	134				138	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.81		4.84			
			ηs (Seasonal space heating efficiency)	%	190		191			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot** water with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0657
011-1W0658

ELSHB-E ERRA08-12EV3

Efficiency data				ELSHB + ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.44					
			ηs (Seasonal space heating efficiency)	%	130		131		135	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.69		4.71			
			ηs (Seasonal space heating efficiency)	%	184				186	
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSHB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection

011-1W0657
011-1W0658

ELSX-E ERRA08-12EW1

Efficiency data				ELSX+ ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 10EW1	12P50E + 10EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.48	
			ηs (Seasonal space heating efficiency)	%	136					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Quick configuration in 9 steps in a high resolution colour interface wizard
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection

up to A+++ A+++ D | A+ A+ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSX-E ERRA08-12EV3

Efficiency data				ELSX+ ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSX	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0657
011-1W0658

ELSXB-E ERRA08-12EW1

Efficiency data				ELSXB+ ERRA	12P30E + 08EW1	12P50E + 08EW1	12P30E + 10EW1	12P50E + 10EW1	12P30E + 10EW1	12P50E + 10EW1
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47		3.48		3.48	
			ηs (Seasonal space heating efficiency)	%	136					
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35 °C	General	SCOP		4.95		4.98			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.83	3.29	2.83	3.29	2.83	3.29
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Water heating energy efficiency class			A+					

Indoor Unit				ELSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EW1	10EW1	12EW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					56		
Sound pressure level (at 1 meter)	Nom.				41.1		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400		
Current	Recommended fuses			A	16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R MT ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

up to A+++ A+++ ↑ D | A+ A+ ↑ F | 65 °C | R-32

011-1W0657
011-1W0658

ELSXB-E ERRA08-12EV3

Efficiency data				ELSXB+ ERRA	12P30E + 08EV3	12P50E + 08EV3	12P30E + 10EV3	12P50E + 10EV3	12P30E + 12EV3	12P50E + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.37		3.38		3.47	
			ηs (Seasonal space heating efficiency)	%	132				136	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.79		4.82			
			ηs (Seasonal space heating efficiency)	%	188		190			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COP		dhw	2.75	3.19	2.75	3.19	2.75	3.19
		ηwh (water heating efficiency)		%	116	132	116	132	116	132
		Water heating energy efficiency class			A+					

Indoor Unit				ELSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	76	91	76	91	76	91
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44.7					
Sound pressure level	Nom.			dBA	36.8					

Outdoor Unit				ERRA	08EV3	10EV3	12EV3
Dimensions	Unit	HeightxWidthxDepth		mm	1,003x1,270x533		
Weight	Unit			kg	107		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Heating		Min.~Max.	°CDB	-25 ~25		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.25		
	Charge			TCO2Eq	2.19		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					54		
Sound pressure level (at 1 meter)	Nom.				40.6		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230		
Current	Recommended fuses			A	32		

This product contains fluorinated greenhouse gases.

DESIGN AWARD 2018

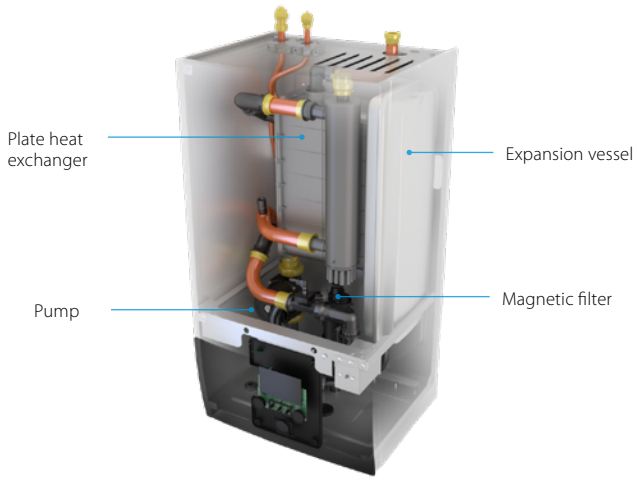
reddot award 2018 winner

R-32

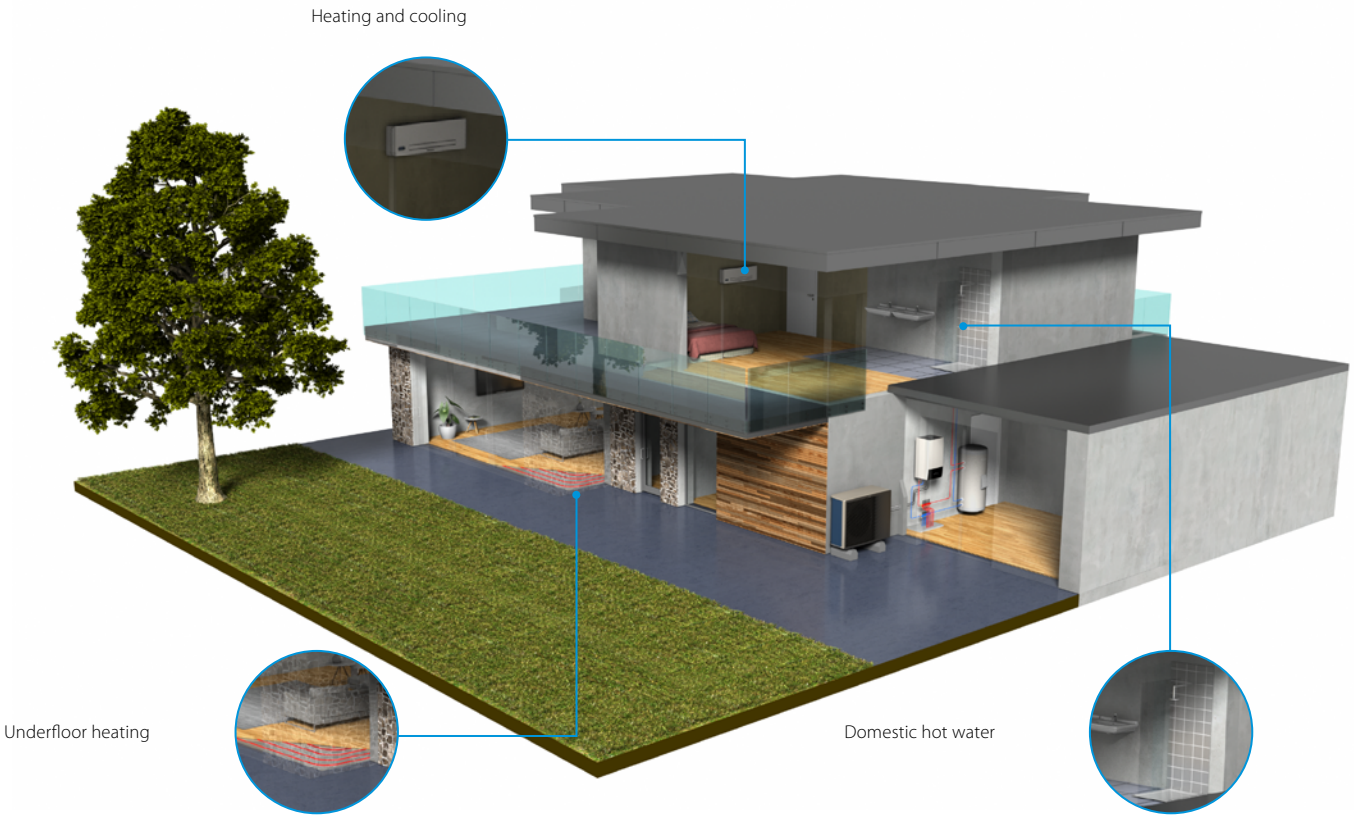
BLUEVOLUTION

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.



Wall mounted heating only air-to-water heat pump: EBBH units
Wall mounted reversible air-to-water heat pump: EBBX units



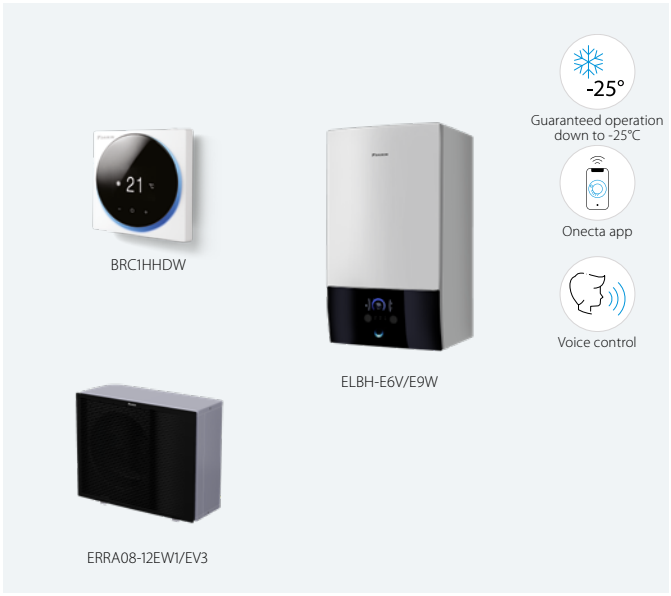
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT W

Wall mounted **heating only** air to water heat pump

- Quick configuration in 9 steps in a high resolution colour interface wizard
- Compact dimensions allows for small installation space, as almost no side clearances are required.
- Combine with a stainless steel tank or ECH$_2$O thermal store.
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances



up to A+++ (A+++ to D)

65 °C

R-32

011-1W0651
011-1W0653
011-1W0655

ELBH-E6V | ELBH-E9W | ERRA08-12EW1 | ERRA08-12EV3

Efficiency data				ELBH + ERRA	12E6V/9W + 08EW1	12E6V/9W + 08EV3	12E6V/9W + 10EW1	12E6V/9W + 10EV3	12E6V/9W + 12EW1	12E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.42	3.42	3.42	3.42	3.42	3.42
			ηs (Seasonal space heating efficiency)	%	134	130	134	131	138	135
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.81	4.69	4.84	4.71	4.84	4.71
			ηs (Seasonal space heating efficiency)	%	190	184	191	186	191	186
			Seasonal space heating eff. class							

Indoor Unit				ELBH	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	48.5					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~ 25					
		Water side	Min.~Max.	°C	15 ~ 65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			ERRA	08EW1	08EV3	10EW1	10EV3	12EW1	12EV3
Dimensions	Unit	HeightxWidthxDepth	mm	1,003x1,270x533					
Weight	Unit		kg	107					
Compressor	Quantity			1					
	Type			Hermetically sealed swing compressor					
Operation range	Heating	Min.~Max.	°CDB	-25 ~ 25					
	Domestic hot water	Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type			R-32					
	GWP			675					
	Charge		kg	3.25					
	Charge		TCO2Eq	2.19					
	Control			Expansion valve					
LW(A) Sound power level (according to EN14825)				56	54	56	54	56	54
Sound pressure level (at 1 meter)	Nom.			41.1	40.6	41.1	40.6	41.1	40.6
Power supply	Name/Phase/Frequency/Voltage		Hz/V	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230
Current	Recommended fuses		A	16	32	16	32	16	32

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R MT W

Wall mounted **reversible** air to water heat pump for heating and cooling

- Quick configuration in 9 steps in a high resolution colour interface wizard
- Compact dimensions allows for small installation space, as almost no side clearances are required.
- Combine with a stainless steel tank or ECH$_2$O thermal store.
- Inclusion of all hydraulic components means no third party components are required
- The unit's sleek design blends in with other household appliances

BRC1HHDW


ELBX-E6V/E9W


ERRA08-12EV3/W1

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

up to A+++ (A+++ to D)

65 °C

R-32

011-1W0651
011-1W0653
011-1W0655

ELBX-E6V | ELBX-E9W | ERRA08-12EW1 | ERRA08-12EV3

Efficiency data				ELBX + ERRA	12E6V/9W + 08EW1	12E6V/9W + 08EV3	12E6V/9W + 10EW1	12E6V/9W + 10EV3	12E6V/9W + 12EW1	12E6V/9W + 12EV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.47	3.37	3.48	3.38	3.58	3.47
			ηs (Seasonal space heating efficiency)	%	136	132	136	132	140	136
			Seasonal space heating eff. class		A+++					
	Average climate water outlet 35 °C	General	SCOP		4.95	4.79	4.98	4.82	4.98	4.82
			ηs (Seasonal space heating efficiency)	%	195	188	196	190	196	190
			Seasonal space heating eff. class		A+++					

Indoor Unit				ELBX	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	48.5					
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°C	-25 ~35					
		Water side	Min.~Max.	°C	25 ~62					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				ERRA	08EW1	08EV3	10EW1	10EV3	12EW1	12EV3
Dimensions	Unit		HeightxWidthxDepth	mm	1,003x1,270x533					
Weight	Unit			kg	107					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating		Min.~Max.	°CDB	-25 ~ 25					
	Domestic hot water		Min.~Max.	°CDB	-25 ~ 35					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	3.25					
	Charge			TCO2Eq	2.19					
	Control				Expansion valve					
LW(A) Sound power level (according to EN14825)					56	54	56	54	56	54
Sound pressure level (at 1 meter)	Nom.				41.1	40.6	41.1	40.6	41.1	40.6
Power supply	Name/Phase/Frequency/Voltage			Hz/V	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230	W1/3~/50/400	V3/1~/50/230
Current	Recommended fuses			A	16	32	16	32	16	32

This product contains fluorinated greenhouse gases.

Combination table and options

			H/O	3 R MT	ELVH12S18E6V	ELVH12S18E9W	ELVH12S23E6V	ELVH12S23E9W
Type	**Description**	**Material name**						
Outdoor unit		ERRA08EV3/W1	•					
		ERRA10EV3/W1	•					
		ERRA12EV3/W1	•					
Controller	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•					
	Wireless room thermostat	EKRTRB	•					
	Wired digital thermostat	EKRTWA	•					
	WLAN module	BRP069A71	•					
	Wireless room by room control	Daikin Home Controls (page 288)	•					
	LAN module	BRP069A62	•					
	WLAN cartridge	BRP069A78	• (1)					
	Wired digital thermostat	EKWCTRDI1V3	•					
	Wired analog thermostat	EKWCTRAN1V3	•					
	Wired underfloor heating base station	EKWUFHTA1V3	•					
	Universal centarlized controller	EKCC9-W, DCOM-LT/IO, LT/MB	•					
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3						
		EKHWS(P)(U)180D3V3						
		EKHWS(P)(U)200D3V3						
		EKHWS(P)(U)250D3V3						
		EKHWS(P)(U)300D3V3						
	Polypropylene tank	EKHWP300B						
		EKHWP500B						
		EKHWP300PB						
		EKHWP500PB						
	Third party tank kit	EKHY3PART						
		EKHY3PART2						
Sensors	External sensor for EKRTRB room thermostat	EKRTETS	•					
	High voltage smart grid relay kit	EKRELSG	•					
	Remote indoor temperature sensor	KRCS01-1	• (6)					
	Remote outdoor temperature sensor	EKRSCA1	• (6)					
	Generic Bizone kit (PCB only)	EKMIKPOA	•					
	Generic Bizone kit	EKMIKPHA	•					
Other options	Digital I/O PCB	EKRP1HBA	• (7)					
	Demand PCB	EKRP1AHT	•					
	PC USB cable	EKPCCAB4	•					
	Conversion kit H/O to reversible for floor standing	EKHVCONV4	•					
	Conversion kit H/O to reversible for wall mounted	EKHBCONV						
	Booster heater kit	EKBH3SD						
ECH$_2$O options	Inline BUH - connection kit	EKECBUCO2AF						
	Inline BUH - 3kW, for *3V (1N~, 230 V, 3 kW)	EKECBUAF3V						
	Inline BUH - 6kW, for *6V (1N~, 230 V, 6 kW)	EKECBUAF6V						
	Inline BUH - 9kW, for *9WN (3N~, 400 V, 9 kW)	EKECBUAF9W						
	Caleffi sludge and magnetite separator SAS1	156021						
	Biv Connector Kit	EKECBIVCO2AF						
	DB connector Kit	EKECDBCO2AF						
	Solar kit HT incl. pump station	EKSRPS4A						
Daikin Home Hub		EKRHH	•					

(1) Included in accessory bag.
(2) Dedicated connection kit: EKEPRHLT3HX.
(3) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(4) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(5) EKHY3PART2 can needs to be used if you have a tank in which you can't insert a thermistor.
(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO2AF is needed to connect the backup heater to the main unit.
(9) Only bivalent models.
(10) Only needed for 300 models. 500 models do not need DB connector kit to install DB solar system.
(11) Models EKHWSU150DV3, EKHWSU180DV3, EKHWSU200DV3, EKHWSU250DV3 and EKHWSU300DV3 are not available for the UK.

Floor standing integrated tank		Floor standing integrated ECH_2O	Wall mounted	
Reversible	Bizone		H/O	Reversible
3 R MT	3 R MT	3 R MT	3 R MT	3 R MT
ELVX12S18E6V	ELVZ12S18E6V	ELSH(B)12P30E		
ELVX12S18E9W	ELVZ12S18E9W	ELSH(B)12P50E		
ELVX12S23E6V	ELVZ12S23E6V	ELSX(B)12P30E	ELBH12E6V	ELBX12E6V
ELVX12S23E9W	ELVZ12S23E9W	ELSX(B)12P50E	ELBH12E9W	ELBX12E9W
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
• (1)	• (1)	• (1)	• (1)	• (1)
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (11)	• (11)
			• (2)	• (2)
			• (3)	• (3)
			• (2)	• (2)
			• (3)	• (3)
			• (4)	• (4)
			• (5)	• (5)
•	•	•	•	•
•	•	•	•	•
• (6)	• (6)	• (6)	• (6)	• (6)
• (6)	• (6)	• (6)	• (6)	• (6)
•		•	•	•
•		•	•	•
• (7)	• (7)		• (7)	• (7)
•	•	•	•	•
•	•	•	•	•
	•			
			•	
		•		
		• (8)		
		• (8)		
		• (8)		
		•		
		• (9)		
		• (10)		
		•		
•	•	•	•	•

Daikin Altherma 3 R

The power pact

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

Improved compactness

A redesigned casing
A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit.

The light grey casing reflects the installation space to help the unit blend into any environment.

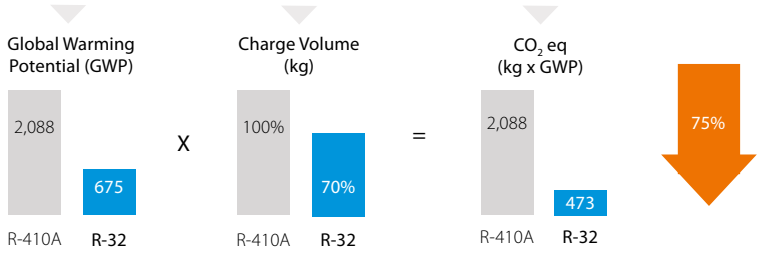
A single fan for high-capacity units
Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.

Running on refrigerant R-32

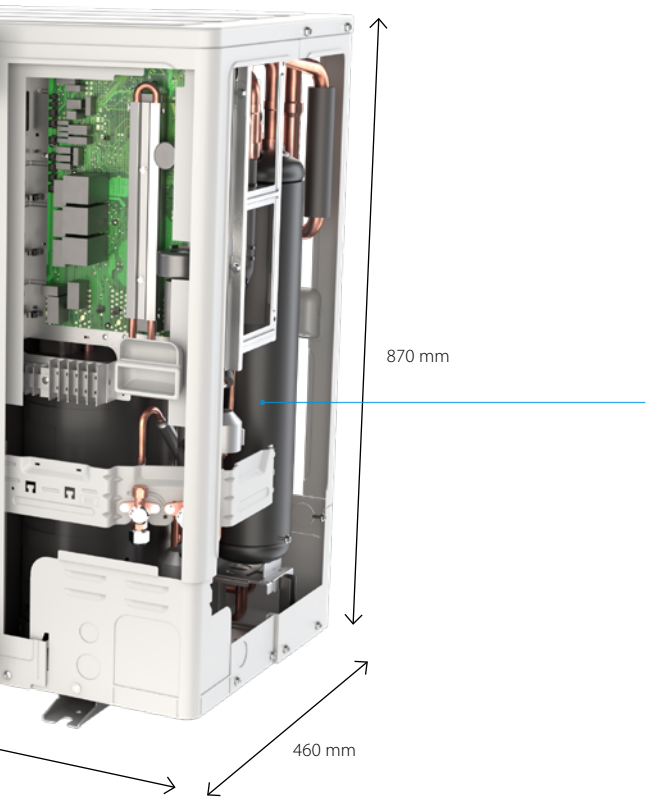
Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Reduced environmental impact: CO_2eq > reduced by 75%

- GWP: R410A: 2,088 > R-32: 675
- 30% less refrigerant charge needed



R-32 BLUEVOLUTION



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

Check out the improved compactness!

Improved performance

All year round comfort

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

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

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

World first in its category

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

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

Check out the improved performance!

Underfloor heating

Heat pump convector

Daikin Altherma 3 R, a complete offer

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

DESIGN AWARD 2018

reddot award 2018 winner

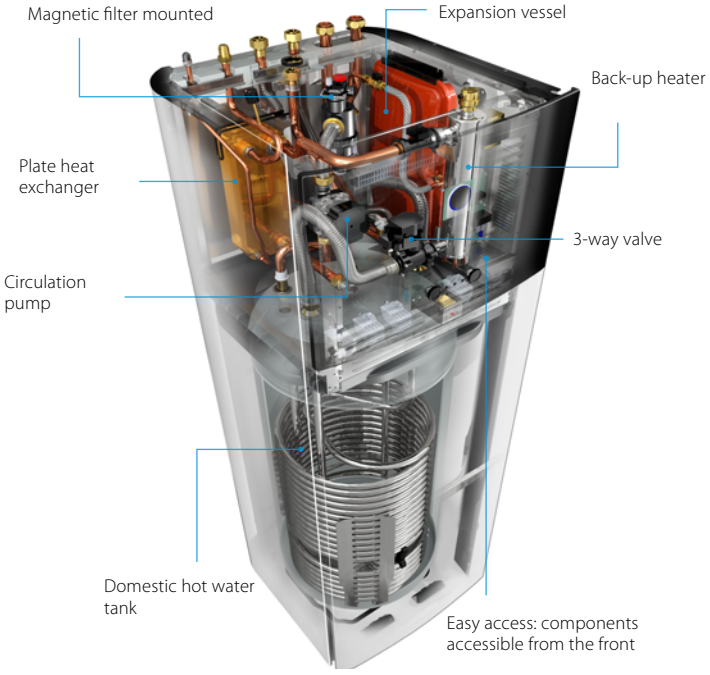
R-32

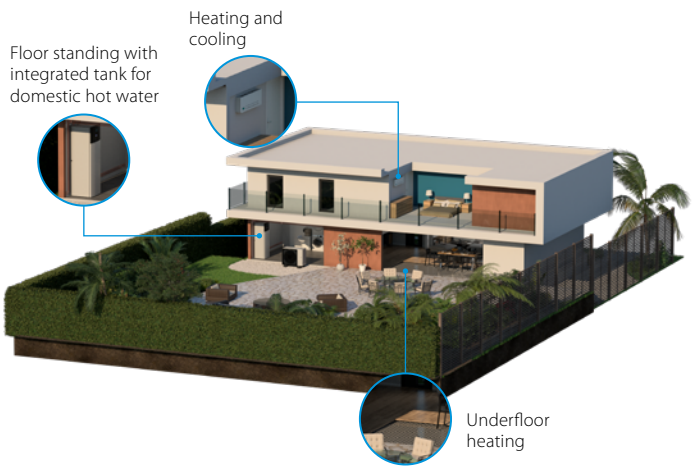
BLUEVOLUTION

Floor standing unit with integrated tank

With a small footprint of 595 x 634 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.

Floor standing air to water heat pump for heating and hot water: EBVH units
Floor standing air to water heat pump for heating, cooling and hot water: EBVX units
Floor standing unit integrated with different temperaturę zones management: EBVZ units





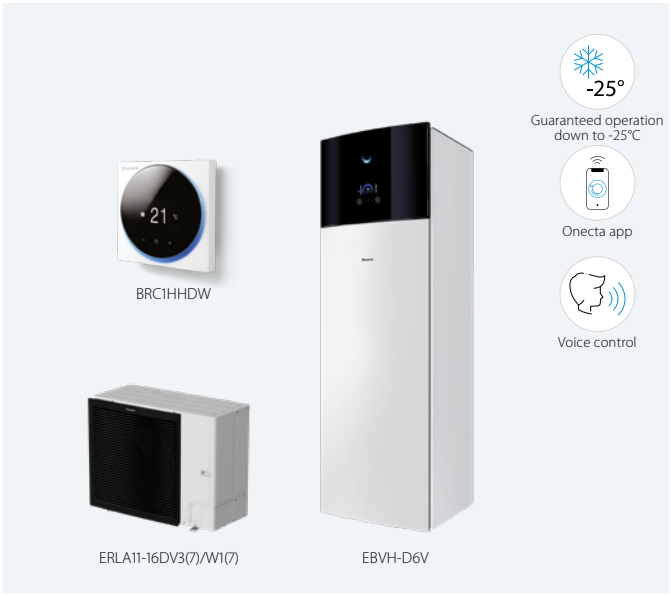
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing air to water heat pump for **heating and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



up to A+++ D

A+ F

60 °C

R-32

011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVH-D6V | EBVH-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBVH + ERLA	11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73	2.63	2.73	2.63	2.73	2.63
			ηwh (water heating efficiency)	%	116	109	116	109	116	109
			Water heating energy efficiency class		A+	A	A+	A	A+	A

Indoor Unit				EBVH	11S18D6V/9W	11S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	1,655x595x634	1,855x595x634	1,655x595x634	1,655x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	124	133	124	133	124	133
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

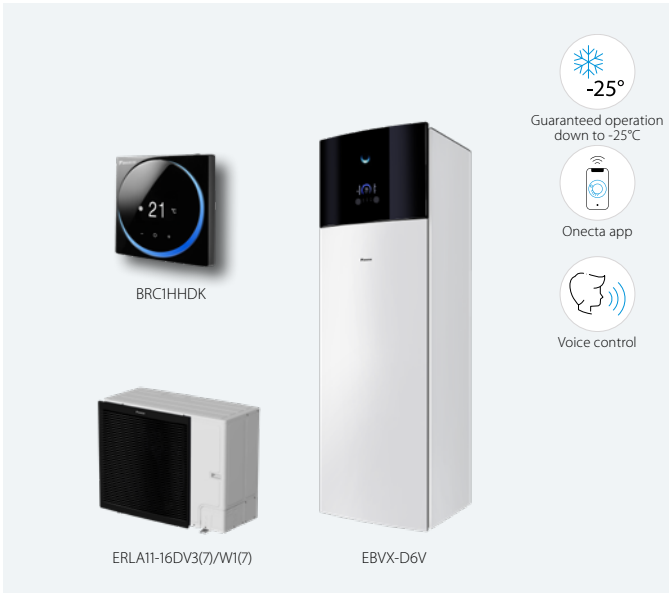
Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R F

Floor standing air to water heat pump for **heating, cooling and hot water**

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



up to A+++ D | A+ F | 60 °C | R-32

011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVX-D6V | EBVX-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				**EBVX + ERLA**	**11S18D6V/9W + 11DV/W**	**11S23D6V/9W + 11DV/W**	**16S18D6V/9W + 14DV/W**	**16S23D6V/9W + 14DV/W**	**16S18D6V/9W + 16DV7/W7**	**16S23D6V/9W + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73	2.63	2.73	2.63	2.73	2.63
		ηwh (water heating efficiency)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	A+	A	A+	A

Indoor Unit				**EBVX**	**11S18D6V/9W**	**11S23D6V/9W**	**16S18D6V/9W**	**16S23D6V/9W**	**16S18D6V/9W**	**16S23D6V/9W**
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	124	133	124	133	124	133
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit				**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

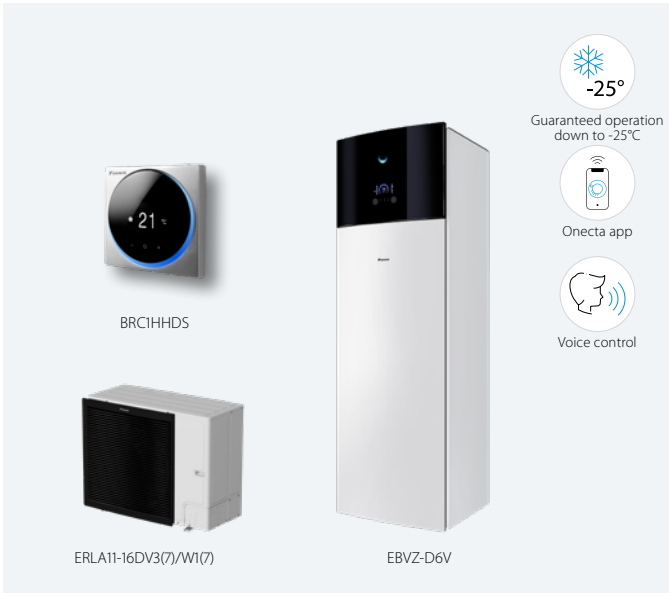
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 634 mm
- Integrated back-up heater of 6 or 9 kW



011-1W0495
011-1W0496
011-1W0497
011-1W0498
011-1W0499
011-1W0500

EBVZ-D6V | EBVZ-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBVZ + ERLA	16S18D6V/9W + 11DV/W	16S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	131		126		130	
			Seasonal space heating eff. class				A++			
	Average climate water outlet 35°C	General	SCOP		4.61		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class				A+++			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73	2.63	2.73	2.63	2.73	2.63
		ηwh (water heating efficiency)		%	116	109	116	109	116	109
		Water heating energy efficiency class			A+	A	A+	A	A+	A

Indoor Unit				EBVZ	16S18D6V/9W	16S23D6V/9W	16S18D6V/9W	16S23D6V/9W	16S23D6V/9W	16S23D6V/9W
Casing	Colour				White + Black					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634	1,655x595x634	1,855x595x634
Weight	Unit			kg	137	145	137	145	137	145
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 25					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

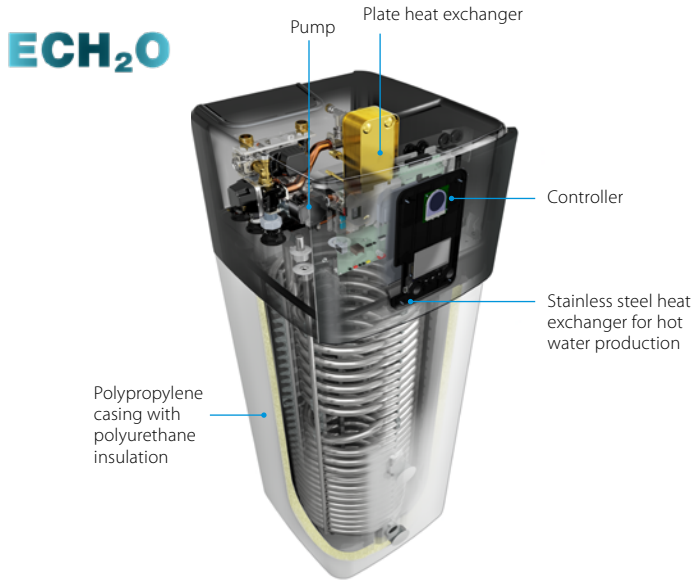
Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

Floor standing unit with integrated ECH$_2$O tank

R-32 BLUEVOLUTION

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water. The ECH$_2$O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.



Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: EBSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: EBSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: EBSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: EBSXB units

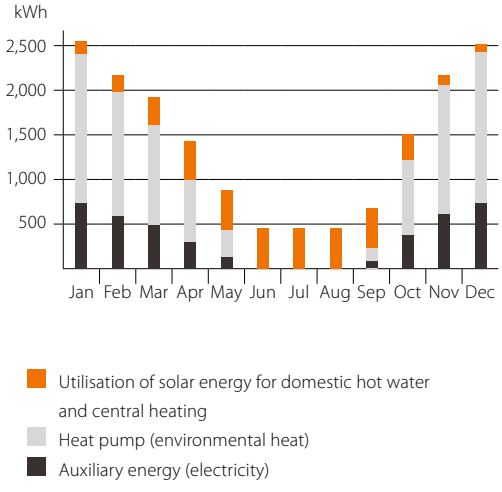
Pressureless (drain-back) solar system EBSH-D, EBSX-D

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

Pressurised solar system EBSHB-D, EBSXB-D

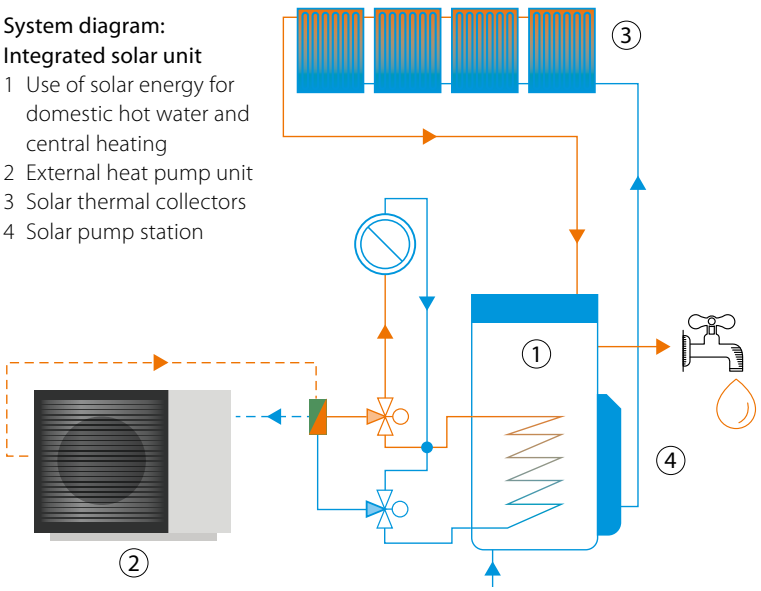
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram: Integrated solar unit

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



Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system

up to A+++ / A+++ D — A+ / A+ F — 60 °C — R-32

011-1W0493
011-1W0494

Efficiency data				EBSH + ERLA	11P30D + 11DV/W	11P50D + 11D/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
		ηwh (water heating efficiency)		%	115/116	126/128	115/116	126/128	115/116	126/128
		Water heating energy efficiency class								

Indoor Unit				EBSH	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.		°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0493
011-1W0494

EBSHB-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBSHB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency)	%	126				130	
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35°C	General	SCOP		4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency)	%	182		181			
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw			2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
		ηwh (water heating efficiency)		%	115/116	126/128	115/116	126/128	115/116	126/128
		Water heating energy efficiency class					A+			

Indoor Unit				EBSHB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating, hot water and cooling
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system

up to A+++ D

A+ F

60 °C

R-32

011-1W0493
011-1W0494

EBSX-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				**EBSX + ERLA**	**11P30D + 11DV/W**	**11P50D + 11DV/W**	**16P30D + 14DV/W**	**16P50D + 14DV/W**	**16P30D + 16DV7/W7**	**16P50D + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class							
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
			ηwh (water heating efficiency)	%	115/116	126/128	115/116	126/128	115/116	126/128
			Water heating energy efficiency class							

Indoor Unit				**EBSX**	**11P30D**	**11P50D**	**16P30D**	**16P50D**	**16P30D**	**16P50D**
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	93	114	93	114	93	114
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air-to-water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source

011-1W0493
011-1W0494

EBSXB-D | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBSXB + ERLA	11P30D + 11DV/W	11P50D + 11DV/W	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV7/W7	16P50D + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+					
Domestic hot water heating	General		Declared load profile		L	XL	L	XL	L	XL
	Average climate		COPdhw		2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10	2.73/2.75	3.05/3.10
			ηwh (water heating efficiency)	%	115/116	126/128	115/116	126/128	115/116	126/128
			Water heating energy efficiency class		A+					

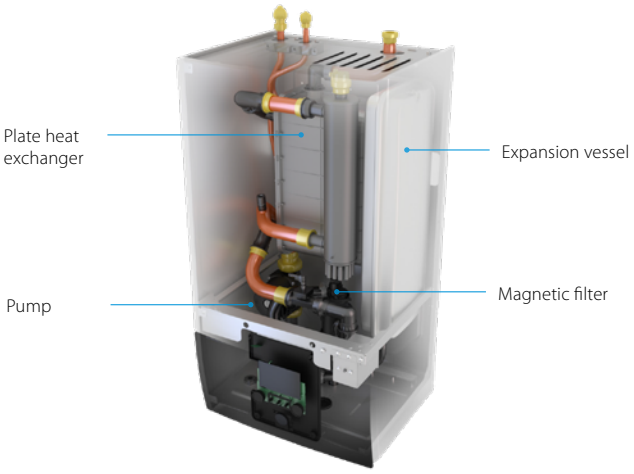
Indoor Unit				EBSXB	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit		HeightxWidthxDepth	mm	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817	1,893x594x680	1,910x792x817
Weight	Unit			kg	94	117	94	117	94	117
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	-25 ~ 35					
Sound power level	Nom.			dBA	44.70					
Sound pressure level	Nom.			dBA	36.80					

Outdoor Unit				ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit		HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit			kg	101		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
Operation range	Heating		Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling		Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water		Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	3.80		
	Charge			TCO2Eq	2.57		
	Control				Expansion valve		
LW(A) Sound power level (according to EN14825)					62		
Sound pressure level (at 1 meter)	Nom.				48		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses			A	32/16		

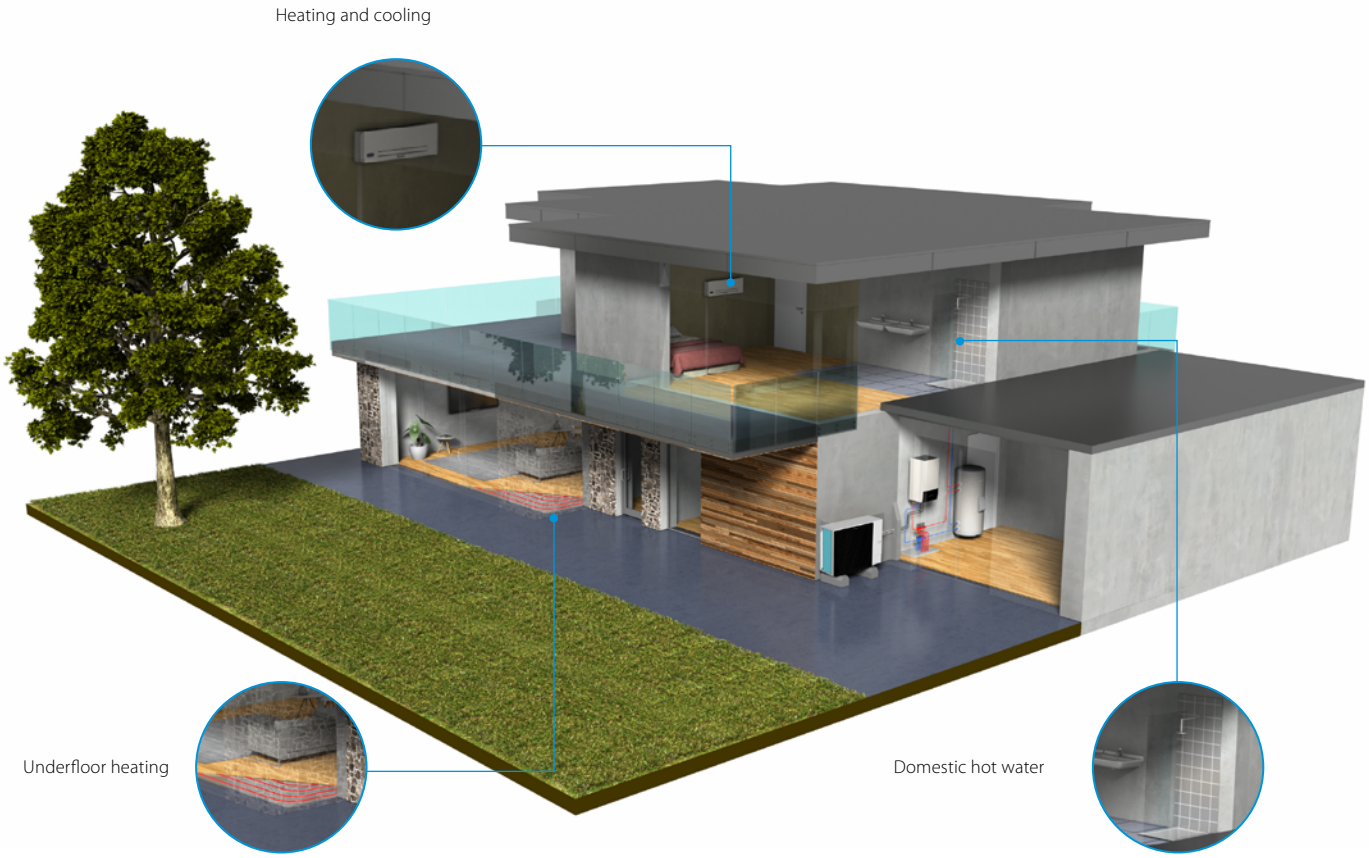
This product contains fluorinated greenhouse gases.

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.



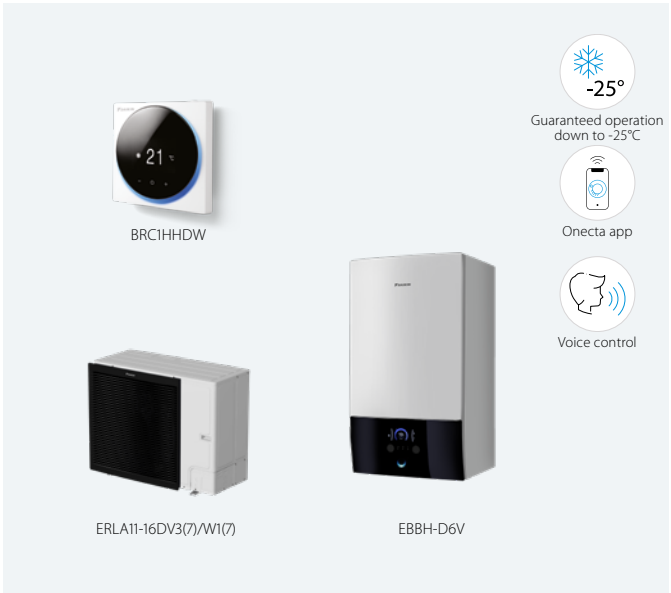
Wall mounted heating only air-to-water heat pump: ETBH units
Wall mounted reversible air-to-water heat pump: ETBX units
Example of installation with a stainless steel domestic hot water tank.



Daikin Altherma 3 R W

Wall mounted **heating only** air-to-water heat pump

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



up to A+++ / A+++ ↑ D

60 °C

R-32

011-1W0498
011-1W0499
011-1W0500

EBBH-D6V | EBBH-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data			**EBBH + ERLA**	**11D6V + 11DV/W**	**11D9W + 11DV/W**	**16D6V + 14DV/W**	**16D9W + 14DV/W**	**16D6V + 16DV7/W7**	**16D9W + 16DV7/W7**
Space heating	Average climate water outlet 55°C	General	SCOP	3.23		3.22		3.32	
			ηs (Seasonal space heating efficiency) %	126				130	
			Seasonal space heating eff. class						
	Average climate water outlet 35°C	General	SCOP	4.63		4.60		4.61	
			ηs (Seasonal space heating efficiency) %	182		181			
			Seasonal space heating eff. class						

Indoor Unit				**EBBH**	**11D6V**	**11D9W**	**16D6V**	**16D9W**	**16D6V**	**16D9W**
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	52.50		54.50			
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			**ERLA**	**11DV3/W1**	**14DV3/W1**	**16DV37/W17**
Dimensions	Unit	HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit		kg	101		
Compressor	Quantity			1		
	Type			Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.80		
	Charge		TCO2Eq	2.57		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				62		
Sound pressure level (at 1 meter)	Nom.			48		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

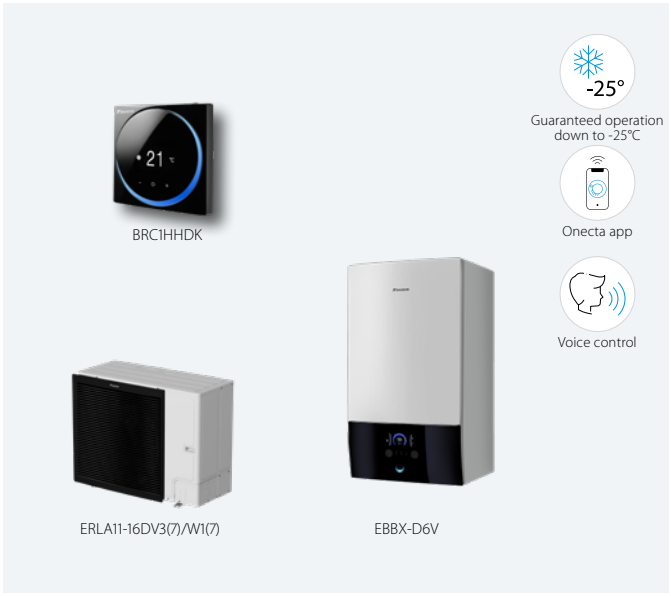
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R W

Wall mounted **reversible** air-to-water heat pump

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



up to A+++ (A+++ to D)

60 °C

R-32

011-1W0498
011-1W0499
011-1W0500

EBBX-D6V | EBBX-D9W | ERLA11-14DV3 | ERLA11-14DW1 | ERLA-DV37 | ERLA-DW17

Efficiency data				EBBX + ERLA	11D6V + 11DV/W	11D9W + 11DV/W	16D6V + 14DV/W	16D9W + 14DV/W	16D6V + 16DV7/W7	16D9W + 16DV7/W7
Space heating	Average climate water outlet 55°C	General	SCOP		3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128				131	
			Seasonal space heating eff. class							
	Average climate water outlet 35°C	General	SCOP		4.72		4.68			
			ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class							

Indoor Unit				EBBX	11D6V	11D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit		HeightxWidthxDepth	mm	840x440x390					
Weight	Unit			kg	52.50		54.50			
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	18 ~ 60					
	Cooling	Ambient	Min. ~ Max.	°C	10 ~ 43					
		Water side	Min. ~ Max.	°C	5 ~ 22					
	Domestic hot water	Ambient	Min. ~ Max.	°C	-25 ~ 35					
		Water side	Min. ~ Max.	°C	10 ~ 60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					

Outdoor Unit			ERLA	11DV3/W1	14DV3/W1	16DV37/W17
Dimensions	Unit	HeightxWidthxDepth	mm	870x1,100x460		
Weight	Unit		kg	101		
Compressor	Quantity			1		
	Type			Hermetically sealed swing inverter compressor		
Operation range	Heating	Min. ~ Max.	°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.	°CDB	10 ~ 43		
	Domestic hot water	Min. ~ Max.	°CDB	-25 ~ 35		
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	3.80		
	Charge		TCO2Eq	2.57		
	Control			Expansion valve		
LW(A) Sound power level (according to EN14825)				62		
Sound pressure level (at 1 meter)	Nom.			48		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1 ~/50/230 / W1/3 ~/50/400		
Current	Recommended fuses		A	32/16		

This product contains fluorinated greenhouse gases.

Combination table and options

			Floor standing integrated stainless steel tank			
			H/O		Reversible	
			11 class	16 class	11 class	16 class
			EBVH11S18D6V	EBVH16S18D6V	EBVX11S18D6V	EBVX16S18D6V
			EBVH11S18D9W	EBVH16S18D9W	EBVX11S18D9W	EBVX16S18D9W
			EBVH11S23D6V	EBVH16S23D6V	EBVX11S23D6V	EBVX16S23D6V
			EBVH11S23D9W	EBVH16S23D9W	EBVX11S23D9W	EBVX16S23D9W
Type	**Description**	**Material name**				
Outdoor unit	4kW	ERLA11DV3/W1	•		•	
	6kW	ERLA14DV3/W1		•		•
	8kW	ERLA16DV37/W17		•		•
Controls	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•	•	•
	Wireless room thermostat	EKRTRB	•	•	•	•
	Wired digital thermostat	EKRTWA	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•
	LAN adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•
	WLAN module	BRP069A71	•	•	•	•
	WLAN cartridge	BRP069A78	•	•	•	•
	Wired digital thermostat	EKWCTRDI1V3	•	•	•	•
	Wired analog thermostat	EKWCTRAN1V3	•	•	•	•
	Valve actuator	EKWCVATR1V3	•	•	•	•
	Wired underfloor heating base station	EKWUFHTA1V3	•	•	•	•
	Universal centralised controller	EKCC9-W, DCOM-LT/IO, LT/MB	•	•	•	•
Domestic hot water	Stainless steel tank	EKHWS(P)(U)150D3V3				
		EKHWS(P)(U)180D3V3				
		EKHWS(P)(U)200D3V3				
		EKHWS(P)(U)250D3V3				
		EKHWS(P)(U)300D3V3				
	Polypropylene tank	EKHWP300B				
		EKHWP500B				
		EKHWP300PB				
		EKHWP500PB				
	Third party tank kit	EKHY3PART				
		EKHY3PART2				
Sensors	External sensor for EKRTRB room thermostat	EKRTETS	• (5)	• (5)	• (5)	• (5)
	High voltage smart grid relay kit	EKRELSG	•	•	•	•
	Remote indoor temperature sensor	KRCS01-1	• (6)	• (6)	• (6)	• (6)
	Remote outdoor temperature sensor	EKRSCA1	• (6)	• (6)	• (6)	• (6)
Bizone kits	Generic Bizone kit (PCB only)	EKMIKPOA	•	•	•	•
	Generic Bizone kit	EKMIKPHA	•	•	•	•
Other options	Digital I/O PCB	EKRP1HBA	• (7)	• (7)	• (7)	• (7)
	Demand PCB	EKRP1AHT	•	•	•	•
	PC USB cable	EKPCCAB4	•	•	•	•
	Balancing valve	KBLNVALVE	•	•	•	•
	Decoupler	KDECOUP	•	•	•	•
ECH_2O options	Inline BUH - connection kit	EKECBUCO2AF				
	Inline BUH - 3kW, for *3V (1N ~, 230 V, 3 kW)	EKECBUAF3V				
	Inline BUH - 6kW, for *6V (1N ~, 230 V, 6 kW)	EKECBUAF6V				
	Inline BUH - 9kW, for *9 WN (3N ~, 400 V, 9 kW)	EKECBUAF9W				
	Caleffi sludge and magnetite separator SAS1	156021				
	Biv Connector Kit	EKECBIVCO2AF				
	DB connector Kit	EKECDBCO2AF				

(1) Dedicated connection kit: EKEPRHLT3HX.
(2) Dedicated connection kit: ETBH: EKEPRHLT5H / ETBX: EKEPRHLT5X.
(3) EKHY3PART can be used if you have a tank in which you can insert the thermistor.
(4) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(5) Can only be used in combination with the wireless room thermostat EKRTRB.
(6) Only one sensor can be connected: indoor or outdoor.
(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(8) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.

	Floor standing integrated ECH_2O				Wall mounted			
Bizone	Drain-back		Bivalent		H/O		Reversible	
16 class	11 class	16 class	11 class	16 class	11 class	16 class	11 class	16 class
EBVZ16S18D6V	EBSH11P30D	EBSH16P30D	EBSHB11P30D	EBSHB16P30D				
EBVZ16S18D9W	EBSH11P50D	EBSH11P50D	EBSHB11P50D	EBSHB16P50D				
EBVZ16S23D6V	EBSX11P30D	EBSX11P30D	EBSXB11P30D	EBSXB16P30D	EBBH11D6V	EBBH16D6V	EBBX11D6V	EBBX16D6V
EBVZ16S23D9W	EBSX11P50D	EBSX11P50D	EBSXB11P50D	EBSXB16P50D	EBBH11D9W	EBBH16D9W	EBBX11D9W	EBBX16D9W
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					• (1)	• (1)	• (1)	• (1)
					• (2)	• (2)	• (2)	• (2)
					• (3)	• (3)	• (3)	• (3)
					• (4)	• (4)	• (4)	• (4)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
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	•	•	•	•	•	•	•	•
• (7)					• (7)	• (7)	• (7)	• (7)
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	• (8)	• (8)	• (8)	• (8)				
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Daikin Altherma 3 R

powered by Bluevolution with R-32 refrigerant

BLUEVOLUTION

Why choose **Daikin Altherma 3 R?**

Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

Unique on the market

High performance

- Leaving water temperature up to 65 °C at high efficiency
- Suitable for both underfloor heating and radiators
- Pedigree trademark in frost protection down to -25 °C, ensuring reliable operation even in the coldest climates

- The Bluevolution technology offers the highest performance:
  - Seasonal efficiency up to A+++
  - Heating efficiency up to a COP of 5.1 (at 7 °C/35 °C)
  - Domestic hot water efficiency up to COP of 3.3 (EN16147)
- Available in 4, 6 and 8 kW

Easy to install

- Delivered ready to operate: all key hydraulic elements are factory mounted
- All servicing can be done from the front and all pipings can be accessed at the top of the unit
- Black and white modern design
- Reduced installation time: the outdoor unit is tested and charged with refrigerant

Easy commissioning

- Integrated high resolution colour interface
- Quick wizard allowing commissioning in maximum 9 easy steps to have the full system ready to operate
- Configuration can take place remotely to upload later on the unit after the day of the installation

Easy to control

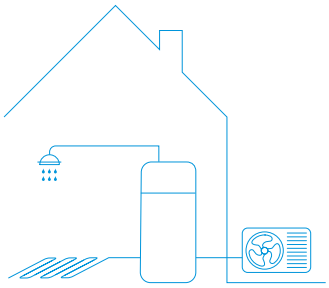
- The combined effect of the Daikin Altherma weather dependent set-point controls and its inverter compressor ensures consistent room temperatures at all times.
- Control your system from anywhere at any time via the Onecta app. This online controller allows adjustment of home comfort levels to suit individual preferences while achieving further energy efficiencies. The R-32 Daikin Altherma 3 R range can also be fully integrated with other home control systems

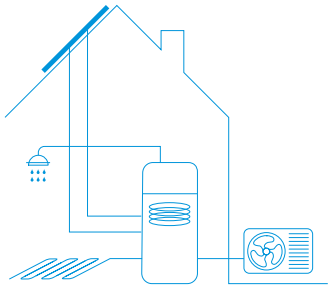
Control with Onecta app

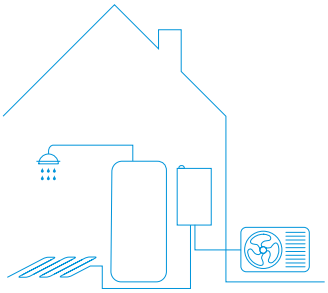
Daikin Altherma 3 R offers a wide range to adapt to your customers needs

- **Best seasonal efficiencies** providing the highest savings on running costs
- Perfect fit for **new buildings,** as well as for low energy houses
- A leaving water temperature up to 65 °C makes it also **a suitable choice for refurbishments**

To cover all applications, the Daikin Altherma 3 R is available in 3 different indoor units







Daikin Altherma 3 R F

Floor standing unit with integrated domestic hot water tank
Compact and yet 100% comfort guaranteed

- All components and connections are factory mounted
- Very small 595 x 625 mm installation footprint required
- Minimum electrical input with constantly available hot water
- Dedicated Bi-Zone models available: two temperature zones automatically regulated by the same indoor unit
- Modern stylish design available in white or silver-grey
- Compatible with the Onecta app
- Voice control available

Daikin Altherma 3 R ECH$_2$O

Floor standing unit with integrated ECH$_2$O tank
Integrated solar unit and domestic hot water tank

- Maximising renewable energy with top comfort for hot water preparation
- Solar support for domestic hot water
- Lightweight plastic tank
- Bivalent option: can be combined with a secondary heat source
- App control available
-

Daikin Altherma 3 R W

Wall mounted unit
High flexibility for installation and domestic hot water connection

- Compact unit with small installation (almost no side clearance is required)
- Can be combined with a space separate domestic hot water tank up to 500 litres, with or without solar support
- Stylish modern design
- Compatible with the Onecta app
- Voice control available

DESIGN AWARD 2018

reddot award 2018 winner

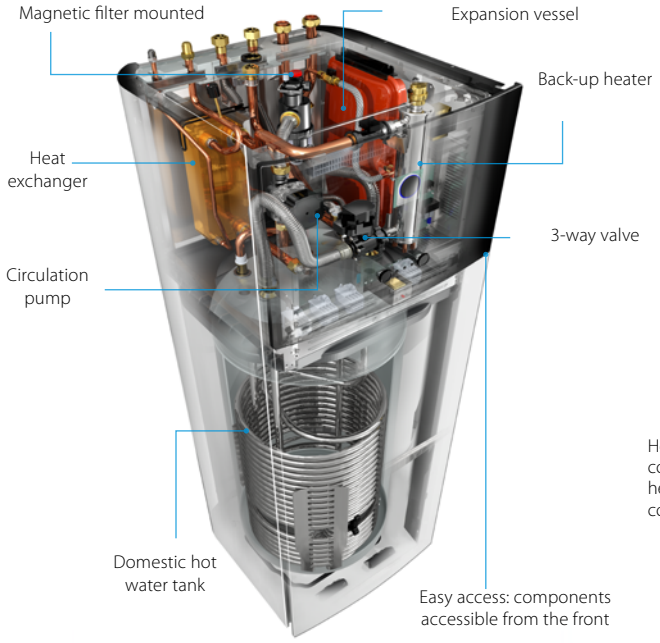
R-32

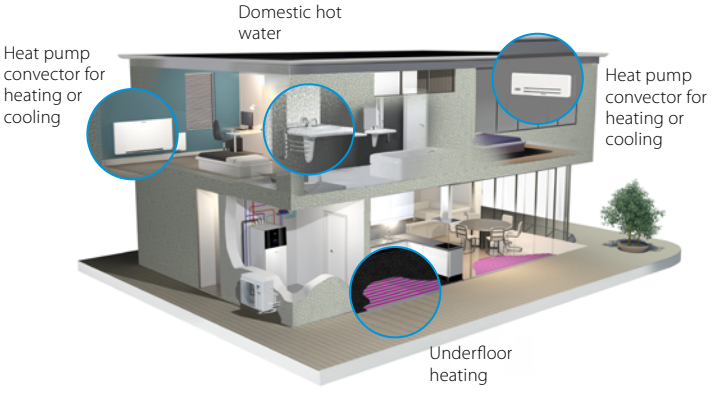
BLUEVOLUTION

Floor standing unit with integrated tank

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.

Floor standing air to water heat pump for heating and hot water: EHVH units
Floor standing air to water heat pump for heating, cooling and hot water: EHVX units
Floor standing unit integrated with different temperaturę zones management: EHVZ units





DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

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

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 6 or 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available

up to A+++ ↑ D

A+ ↑ F

65 °C

R-32

011-1W0218 → 222
011-1W0245, 247
011-1W0249 → 251

EHVH-E6V EHVH-E9W ERGA-EV ERGA-EVH ERGA-EVH7

Efficiency data				EHVH + ERGA	04S18E6V + 04EV	04S23E6V + 04EV	08S18E6V/9W + 06EVH	08S23E6V/9W + 06EVH	08S18E6V/9W + 08EVH7	08S23E6VE/9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26				3.32	
			ηs (Seasonal space heating efficiency)	%	127				130	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.48		4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176				179	
			Seasonal space heating eff. class		A+++					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	125	133	125	133	125	133
		Water heating energy efficiency class			A+					

Indoor Unit				EHVH	04S18E6V	04S23E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	119	128	119	128	119	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	70					
Sound power level	Nom.			dBA	42					
Sound pressure level	Nom.			dBA	28					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

Daikin Altherma 3 R F

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

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 3, 6, 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available

up to A+++ D | A+ F | 65 °C | R-32

011-1W0218 → 222
011-1W0245, 247
011-1W0249 → 251

EHVX-E3V | EHVX-E6V | EHVX-E9W | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data					EHVX + ERGA	04S18E3V/E6V + 04EV	04S23E3V/E6V + 04EV	08S18E6V/E9W + 06EVH	08S23E6V/E9W + 06EVH	08S18E6V/E9W + 08EVH7	08S23E6V/E9W + 08EVH7
Heating capacity	Nom.				kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.			kW	0.850 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.				kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.			kW	0.810 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP						5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER						5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP			3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)		%	129		128		131	
			Seasonal space heating eff. class								
	Average climate water outlet 35 °C	General	SCOP			4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)		%	179		178		181	
			Seasonal space heating eff. class								
Domestic hot water heating	General	Declared load profile				L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)			%	127 / 125	134 / 133	125	133	125	133
		Water heating energy efficiency class									

Indoor Unit				EHVX	04S18E3V/E6V	04S23E3V/E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	119	128	119	128	119	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15 ~65					
	Cooling	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	70					
Sound power level	Nom.			dBA	42					
Sound pressure level	Nom.			dBA	28					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R F

Floor standing integrated with **two different temperature zones monitoring**

- A combined stainless steel domestic hot water tank of 180 or 230 L and heat pump for easy installation
- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Small installation footprint of 595 x 625 mm
- Integrated back-up heater choice of 6 or 9 kW
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available

up to A+++ D

A+ F

65 °C

R-32

011-1W0218 → 222

Efficiency data				EHVZ + ERGA	EHVZ-E6V 04S18E6V + 04EV	EHVZ-E9W 08S18E6V/E9W + 06EVH	ERGA-EV 08S23E6V/E9W + 06EVH	ERGA-EVH 08S18E6V/E9W + 08EVH7	ERGA-EVH7 08S23E6V/E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class						
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class						
Domestic hot water heating	General	Declared load profile			L	XL		L	XL
	Average climate	ηwh (water heating efficiency)		%	125	133		125	133
		Water heating energy efficiency class							

Indoor Unit				EHVZ	04S18E6V	08S18E6V/E9W	08S23E6V/E9W	08S18E6V/E9W	08S23E6V/E9W
Casing	Colour				White + Black				
	Material				Resin / Sheet metal				
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625		1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit			kg	125		133	125	133
Tank	Water volume			l	180		230	180	230
	Maximum water temperature			°C	70				
	Maximum water pressure			bar	10				
	Corrosion protection				Pickling				
Operation range	Heating	Ambient	Min.~Max.	°C	5~30				
		Water side	Min.~Max.	°C	15 ~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35				
		Water side	Max.	°C	70				
Sound power level	Nom.			dBA	42				
Sound pressure level	Nom.			dBA	28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

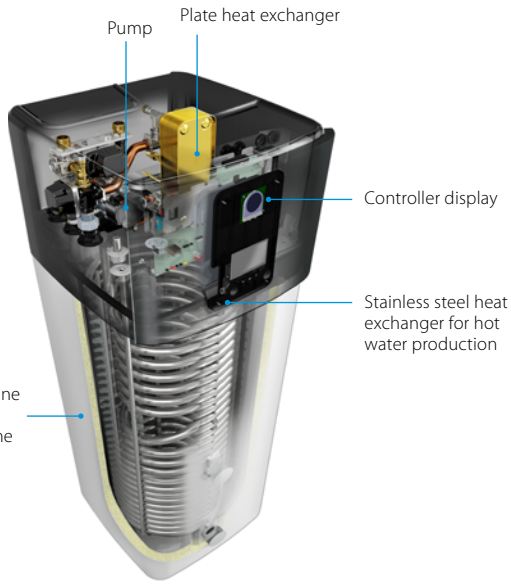
(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.


DAIKIN
R32

Floor standing unit with integrated ECH$_2$O tank

R-32

BLUEVOLUTION



Floor standing air-to-water heat pump for heating and hot water with thermal solar suport: EHSH units
Floor standing air-to-water heat pump for bivalent heating and hot water with thermal solar suport: EHSHB units
Floor standing air-to-water heat pump for heating, cooling and hot water with thermal solar suport: EHSX units
Floor standing air-to-water heat pump for bivalent heating, cooling and hot water with thermal solar suport: EHSXB units

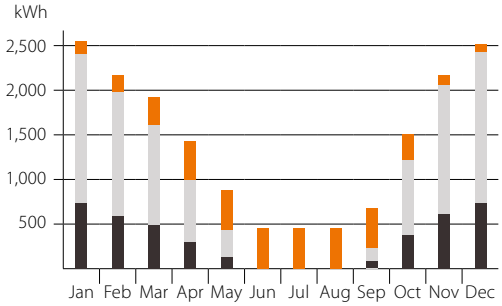
Pressureless (drain-back) solar system (EHSH-E, EHSX-E)

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

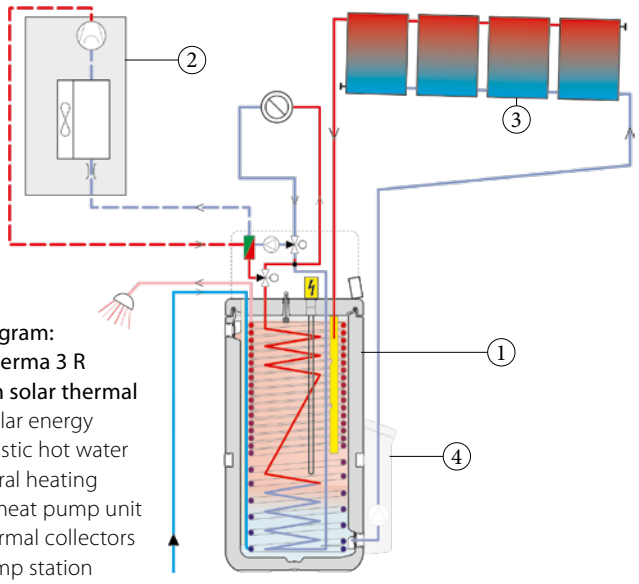
Pressurised solar system (EHSHB-E, EHSXB-E)

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

Monthly energy consumption of an average detached house



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



System diagram: Daikin Altherma 3 R ECH$_2$O with solar thermal

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

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump
- Compatible with the Onecta app
- Voice control available

011-1W0262
011-1W0264
→ 267

EHSH-E | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHSH + ERGA	04P30E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class		A++				
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class		A+++				
Domestic hot water heating	General	Declared load profile			L		XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118		125	118	125
		Water heating energy efficiency class			A+				

Indoor Unit				EHSH	04P30E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644		1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	77		107	77	107
Tank	Water volume			l	294		477	294	477
	Maximum water temperature			°C	85				
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25				
		Water side	Min.~Max.	°C	18~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35				
		Water side	Min.~Max.	°C	25~55				
Sound power level	Nom.			dBA	39				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **bivalent heating and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Compatible with the Onecta app
- Voice control available

011-1W0262
011-1W0264 → 267

EHSHB-E | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHSHB + ERGA	04P30E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class		A++				
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class		A+++				
Domestic hot water heating	General	Declared load profile			L		XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118		125	118	125
		Water heating energy efficiency class			A+				

Indoor Unit				EHSHB	04P30E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644		1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	79		110	79	110
Tank	Water volume			l	294		477	294	477
	Maximum water temperature			°C	85				
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25				
		Water side	Min.~Max.	°C	18~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35				
		Water side	Min.~Max.	°C	25~55				
Sound power level	Nom.			dBA	39				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating, hot water and cooling
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Solar support of domestic hot water with pressureless (drain-back) solar system
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating, hot water and cooling operation
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Possible to connect to photovoltaïc solar panels to provide energy for your heat pump
- Compatible with the Onecta app
- Voice control available

up to A+++ A+++ ↑ D | A+ A+ ↑ F | 65 °C | R-32

011-1W0262 → 267

EHSX-E ERGA-EV ERGA-EVH ERGA-EVH7

Efficiency data				EHSX + ERGA	04P30E + 04EV	04P50E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.81 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129		128		131	
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	SCOP		4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179		178		181	
			Seasonal space heating eff. class							
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118	125	118	125	118	125
		Water heating energy efficiency class								

Indoor Unit				EHSX	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	77	107	77	107	77	107
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25					
		Water side	Min.~Max.	°C	18~65					
	Cooling	Ambient	Min.~Max.	°CDB	10~43					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	39					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R ECH$_2$O

Floor standing air to water heat pump for **bivalent heating, cooling and hot water** with thermal solar support

- Integrated solar unit, offering top comfort in heating and hot water
- Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- Bivalent system: combinable with a secondary heat source
- Heat loss is reduced to a minimum thanks to the high quality insulation
- App control possible for managing heating and hot water operation
- Compatible with the Onecta app
- Voice control available

EHSXB-E ERGA-EV ERGA-EVH ERGA-EVH7

011-1W0262 → 267

Efficiency data				EHSXB + ERGA	04P30E + 04EV	04P50E + 04EV	08P30E + 06EVH	08P50E + 06EVH	08P30E + 08EVH7	08P50E + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)		6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)		1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)		5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.81 (1)/1.36 (2)		1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)		4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)		5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129		128		131	
			Seasonal space heating eff. class				A+			
	Average climate water outlet 35 °C	General	SCOP		4.54		4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179		178		181	
			Seasonal space heating eff. class				A+			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%	118	125	118	125	118	125
		Water heating energy efficiency class					A+			

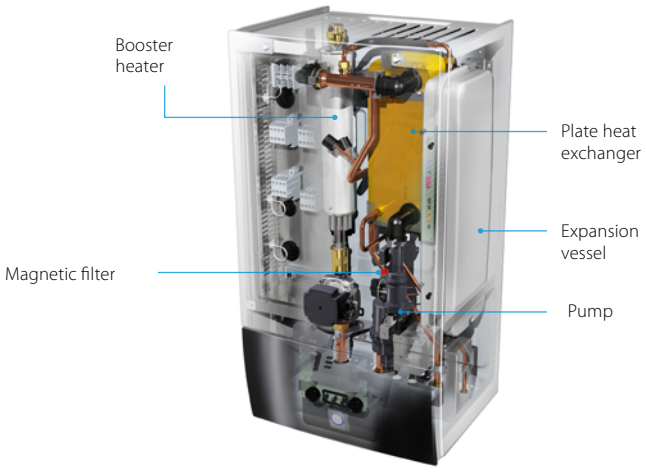
Indoor Unit				EHSXB	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812	1,892x594x644	1,905x792x812
Weight	Unit			kg	79	110	79	110	79	110
Tank	Water volume			l	294	477	294	477	294	477
	Maximum water temperature			°C	85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25					
		Water side	Min.~Max.	°C	18~65					
	Cooling	Ambient	Min.~Max.	°CDB	10~43					
		Water side	Min.~Max.	°C	5~22					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	39					

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10.0~43.0		
	Domestic hot water		Min.~Max.	°CDB	-25 ~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO_2Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

Wall mounted unit

This model is the most compact unit for heating and cooling with high flexibility for a quick and easy installation, with an optional connection to domestic hot water.



All hydraulic parts included in the compact wall mounted unit.

Wall mounted heating only air-to-water heat pump: EHBH units
Wall mounted reversible air-to-water heat pump: EHBX units

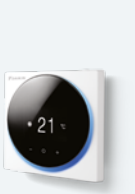
Example of installation with a stainless steel domestic hot water tank (EKHWS(P)-D).

DAIKIN
R32

Daikin Altherma 3 R W

Wall mounted **heating only** air-to-water heat pump ideal for low energy houses

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available



BRC1HHDW


EHBH-E6V


ERGA-EV(H)(7)

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

up to A+++

65 °C

R-32

011-1W0218-219
011-1W0221
011-1W0246-247

Efficiency data				EHBH + ERGA	04E6V + 04EV	08E6V + 06EVH	08E9W + 06EVH	08E6V + 08EVH7	08E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.85 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26			3.32	
			ηs (Seasonal space heating efficiency)	%	127			130	
			Seasonal space heating eff. class						
	Average climate water outlet 35 °C	General	SCOP		4.48	4.47		4.56	
			ηs (Seasonal space heating efficiency)	%	176			179	
			Seasonal space heating eff. class						

Indoor Unit				EHBH	04E6V	08E6V	08E9W	08E6V	08E9W
Casing	Colour				White + Black				
	Material				Resin, sheet metal				
Dimensions	Unit	HeightxWidthxDepth		mm	840x440x390				
Weight	Unit			kg	42.0		42.4	42.0	42.4
Operation range	Heating	Water side	Min.~Max.	°C	15 ~65				
	Domestic hot water	Water side	Min.~Max.	°C	25~75				
Sound power level	Nom.			dBA	42				
Sound pressure level	Nom.			dBA	28				

Outdoor Unit				ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388		
Weight	Unit			kg	58.5		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
Operation range	Cooling		Min.~Max.	°CDB	10~43		
	Domestic hot water		Min.~Max.	°CDB	-25~35		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	1.50		
	Charge			TCO$_2$Eq	1.01		
	Control				Expansion valve		
Sound power level	Heating		Nom.	dBA	58	60	62
	Cooling		Nom.	dBA	61	62	
Sound pressure level	Heating		Nom.	dBA	44	47	49
	Cooling		Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230		
Current	Recommended fuses			A	25		

(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).
This product contains fluorinated greenhouse gases.

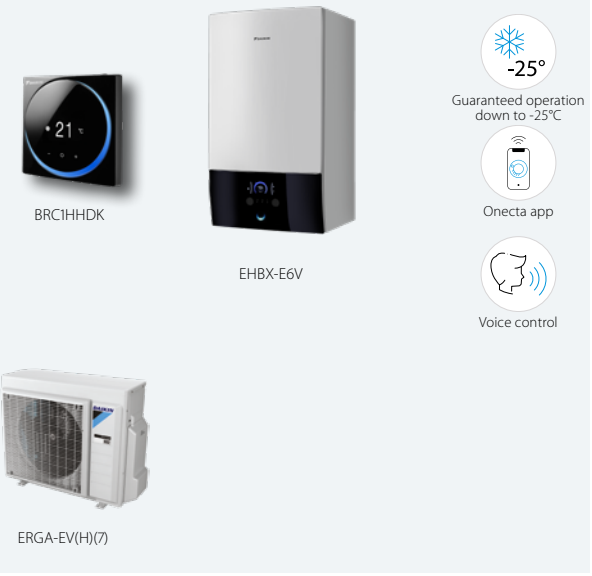
DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 R W

Wall mounted **reversible** air-to-water heat pump ideal for low energy houses

- Inclusion of all hydraulic components means no third party components are required
- PCB board and hydraulic components are located in the front for easy access
- Compact dimensions allows for small installation space, as almost no side clearances are required
- The unit's sleek design blends in with other household appliances
- Combine with a stainless steel tank or ECH$_2$O thermal store
- Outdoor unit extracts heat from the outdoor air, even at -25 °C
- Compatible with the Onecta app
- Voice control available



up to A+++ (A+++ to D)

65 °C

R-32

011-1W0218-219
011-1W0221
011-1W0246-247

EHBX-E6V | EHBX-E9W | ERGA-EV | ERGA-EVH | ERGA-EVH7

Efficiency data				EHBX + ERGA	04E6V + 04EV	08E6V + 06EVH	08E9W + 06EVH	08E6V + 08EVH7	08E9W + 08EVH7
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)		7.50 (1)/7.80 (2)	
Power input	Heating	Nom.		kW	0.850 (1)/1.26 (2)	1.24 (1)/1.69 (2)		1.63 (1)/2.23 (2)	
Cooling capacity	Nom.			kW	4.86 (1)/4.52 (2)	5.96 (1)/5.09 (2)		6.25 (1)/5.44 (2)	
Power input	Cooling	Nom.		kW	0.810 (1)/1.36 (2)	1.06 (1)/1.55 (2)		1.16 (1)/1.73 (2)	
COP					5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)		4.60 (1)/3.50 (2)	
EER					5.98 (1)/3.32 (2)	5.61 (1)/3.28 (2)		5.40 (1)/3.14 (2)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.29	3.28		3.35	
			ηs (Seasonal space heating efficiency)	%	129	128		131	
			Seasonal space heating eff. class						
	Average climate water outlet 35 °C	General	SCOP		4.54	4.52		4.61	
			ηs (Seasonal space heating efficiency)	%	179	178		181	
			Seasonal space heating eff. class						

Indoor Unit			EHBX	04E6V	08E6V	08E9W	08E6V	08E9W
Casing	Colour			White + Black				
	Material			Resin, sheet metal				
Dimensions	Unit	HeightxWidthxDepth	mm	840x440x390				
Weight	Unit		kg	42.0		42.4	42.0	42.4
Operation range	Heating	Water side Min.~Max.	°C	15 ~65				
	Domestic hot water	Water side Min.~Max.	°C	25~75				
Sound power level	Nom.		dBA	42				
Sound pressure level	Nom.		dBA	28				

Outdoor Unit			ERGA	04EV	06EVH	08EVH7
Dimensions	Unit	HeightxWidthxDepth	mm	740x884x388		
Weight	Unit		kg	58.5		
Compressor	Quantity			1		
	Type			Hermetically sealed swing compressor		
Operation range	Cooling	Min.~Max.	°CDB	10~43		
	Domestic hot water	Min.~Max.	°CDB	-25~35		
Refrigerant	Type			R-32		
	GWP			675.0		
	Charge		kg	1.50		
	Charge		TCO$_2$Eq	1.01		
	Control			Expansion valve		
Sound power level	Heating	Nom.	dBA	58	60	62
	Cooling	Nom.	dBA	61	62	
Sound pressure level	Heating	Nom.	dBA	44	47	49
	Cooling	Nom.	dBA	48	49	50
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1N~/50/230		
Current	Recommended fuses		A	25		

(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).
This product contains fluorinated greenhouse gases.

Combination table and options

			Floor standing				
			Heating only		Reversible		Biz
			EHVH04S18E6V	EHVH08S18E6V	EHVX04S18E3V	EHVX08S18E6V	EHVZ04S18E6V
			EHVH04S23E6V	EHVH08S23E6V	EHVX04S23E3V	EHVX08S23E6V	
				EHVH08S18E9W	EHVX04S18E6V	EHVX08S18E9W	
				EHVH08S23E9W	EHVX04S23E6V	EHVX08S23E9W	
Type	**Description**	**Material name**					
Outdoor unit	4kW	ERGA04EAV3	•		•		•
	6kW	ERGA06EAV3H		•		•	
	8kW	ERGA08EAV3H7		•		•	
Controls	Madoka wired room thermostat	BRC1HHDK/S/W(7)	•	•	•	•	•
	Wireless room thermostat	EKRTRB	•	•	•	•	•
	Wired digital thermostat	EKRTWA	•	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•	•
	LAN adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•	•
	WLAN module	BRP069A71	• (1)	• (1)	• (1)	• (1)	• (1)
	WLAN cartridge	BRP069A78	• (1)	• (1)	• (1)	• (1)	• (1)
	Universal centralised controller for cascade	EKCC9-W DCOM-LT/IO,-LT/MB	•	•	•	•	•
Sensors	Remote indoor sensor	KRCS01-1	• (2)	• (2)	• (2)	• (2)	• (2)
	Remote outdoor sensor	EKRSCA1	• (2)	• (2)	• (2)	• (2)	• (2)
	External sensor for EKRTRB room thermostat	EKRTETS	• (3)	• (3)	• (3)	• (3)	• (3)
Bizone kits	Watts kit	BZKA7V3	•	•	•	•	
	Generic bizone kit	EKMIKPOAF					
	Generic bizone kit	EKMIKPHAF					
Domestic hot water	DHW tank	EKHWS(P)(U)-D(3)V3					
	Thermal stores	EKHWP-(P)B					
	Third party tank kit	EKHY3PART					
	Third party tank kit	EKHY3PART2					
Heat pump convector	Floor standing	FWXV15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
	Wall mounted	FWXT15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
	Concealed	FWXM15/20/25*	• (5)	• (5)	• (5)	• (5)	• (5)
Other options	Digital I/O PCB	EKRP1HBAA	• (6)	• (6)	• (6)	• (6)	• (6)
	Demand PCB	EKRP1AHTA	•	•	•	•	•
	PC USB cable	EKPCCAB4	•	•	•	•	•
	Relay smart grid	EKRESLG	•	•	•	•	•
	Corner pipe bend kit	EKHVTC	•	•	•	•	
Dedicated ECH_2O options	Inline back-up heater (3kW, for *3V (1N ~, 230 V, 3 kW)	EKECBUAF3V					
	Inline back-up heater (6kW, for *6V (1N ~, 230 V, 6 kW)	EKECBUAF6V					
	Inline back-up heater (9kW, for *9WN (3N ~, 400 V, 9 kW)	EKECBUAF9W					
	Inline back-up heater connection kit	EKECBUCO3AF					
	Dirt separator	156021					
	Bivalent connector kit	EKECBIVCO2AF					
	Drain-back connector kit	EKECDBCO2AF					
	Circulation stop valves (2 pcs)	165070					
	Fill and drain connection KFE BA	165215					

(1) W-LAN cartridge is supplied in the accessory bag of the unit => To be plugged in the SD-Slot on MMI-2 (in case of bad reception of signal, the WLAN cartridge can be removed and replaced by the WLAN or LAN module).
(2) Only 1 sensor can be connected: indoor OR outdoor sensor.
(3) Can only be used in combination with the wireless room thermostat EKRTRB(1).
(4) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(5) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).
(6) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(7) Only 1 Backup heater can be connected on one unit: 3 or 6* or 9 kW (*No 6T1-model applicable). EKECBUCO*AF is needed to connect the backup heater to the main unit.

	ECH$_2$O				Wall mounted			
one	Standard		Bivalent		Heating only		Reversible	
EHVZ08S18E6V	EHSH04P30E	EHSH08P30E	EHSHB04P30E	EHSHB08P30E	EHBH04E6V	EHBH08E6V	EHBX04E6V	EHBX08E6V
EHVZ08S23E6V		EHSH08P50E		EHSHB08P50E		EHBH08E9W		EHBX08E9W
EHVZ08S18E9W		EHSX04P30E		EHSXB04P30E				
EHVZ08S23E9W		EHSX04P50E		EHSXB04P50E				
		EHSX08P30E		EHSXB08P30E				
		EHSX08P50E		EHSXB08P50E				
	•		•		•		•	
•		•		•		•		•
•		•		•		•		•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)
• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)	• (1)
•	•	•	•	•	•	•	•	•
• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)	• (2)
• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)	• (3)
					•	•	•	•
	•	•	•	•				
	•	•	•	•				
					•	•	•	•
					•	•	•	•
					•	•	•	•
					• (4)	• (4)	• (4)	• (4)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)	• (5)
• (6)					• (6)	• (6)	• (6)	• (6)
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	• (7)	• (7)	• (7)	• (7)				
	•	•	•	•				
			•	•				
	•	•						
	•	•	•	•				
	•	•	•	•				

Daikin Altherma 3 M (4-6-8 kW)

The monobloc standard

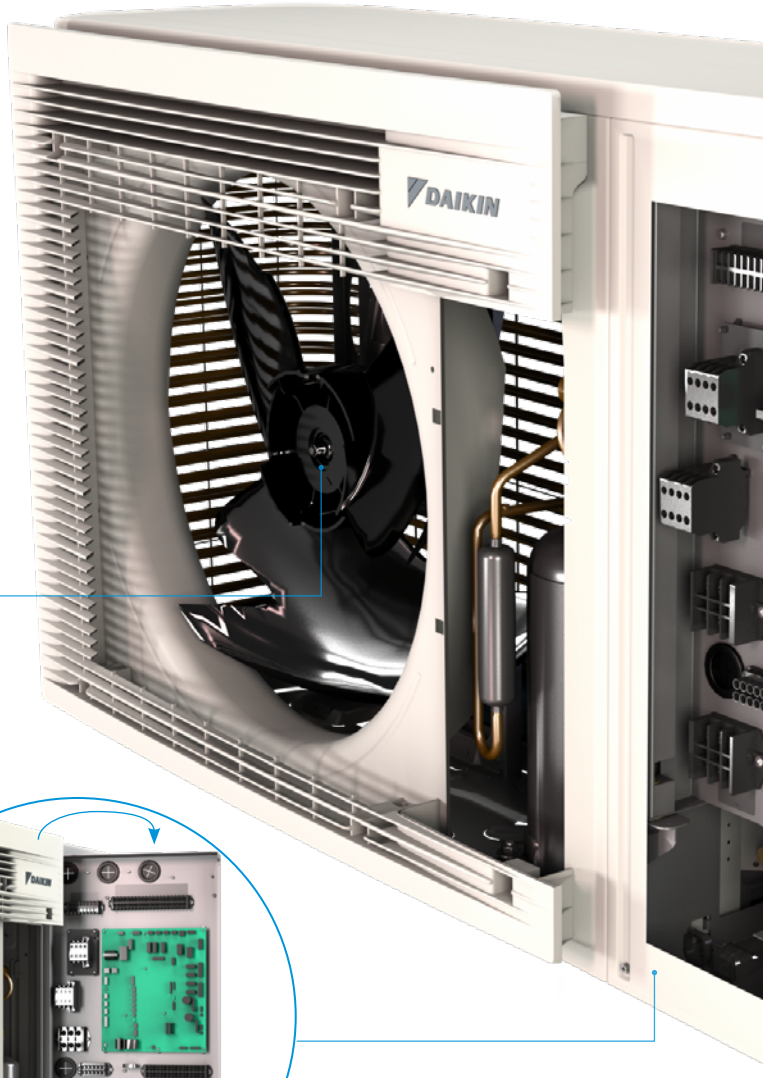
Functional design

Daikin Altherma 3 M is the Daikin's first third generation monobloc, benefiting from a new design and using the R-32 refrigerant, also now available in 4, 6 and 8 kW.

A redesigned casing
The white front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

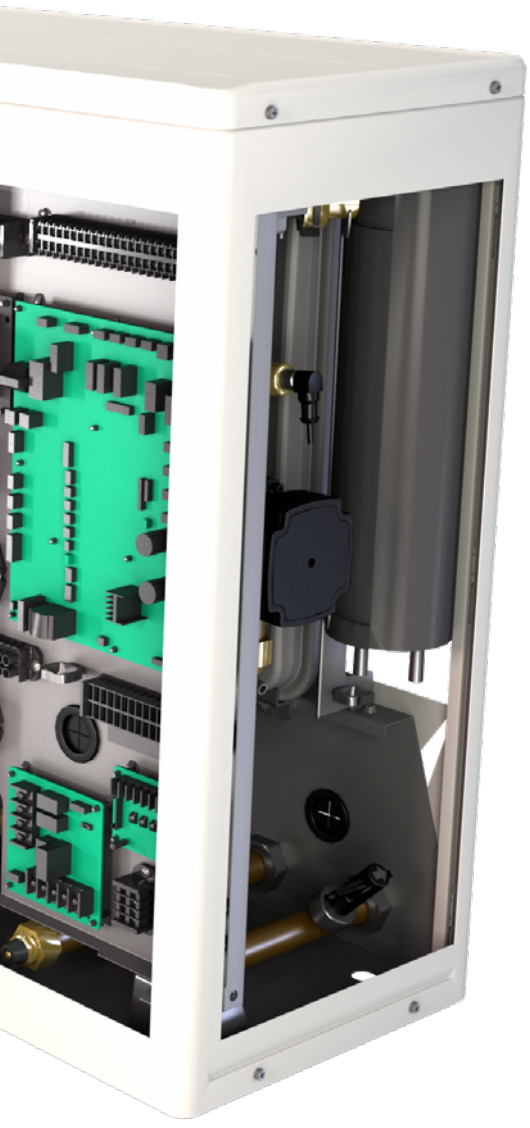
The light grey and seamless casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

A renewed fan shape
The shape of the fan has been reviewed to reduce the contact surface with air and improve the air circulation.



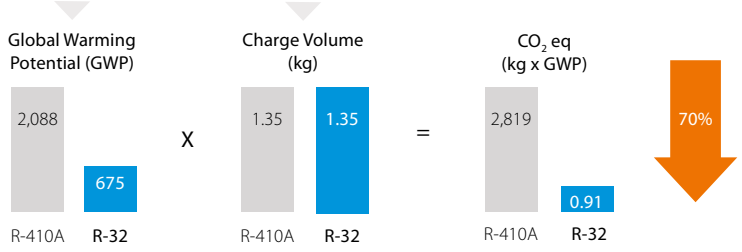
Help installers and commissioning

- The rotary switchbox is a brand-new feature in this monobloc heat pump.
- It helps installers accessing the hydraulic and refrigerant components of the unit in an easy way.
- The service and commissioning can be then performed with ease.



Reduced environmental impact: 70% less CO_2 equivalent

- GWP: R-410A: 2,088 > R-32: 675



R-32 monobloc

R-32 BLUEVOLUTION

Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions.
Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

A simple solution to space limitation

Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monobloc can even fit under a window!

The monobloc also gets its power from inside: all hydraulic components are integrated in one unit, including the sealed refrigerant circuit: no need for refrigerant handling or F-gas qualifications

Fully connected control

The Daikin Altherma 3 M is equipped with the most intuitive control solutions.

Heating and cooling emitters

Daikin Altherma 3 M works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.

Cloud ready with WLAN

reddot award 2018
winner

DESIGN AWARD 2018

Onecta app, with voice control

- Control the heating system from home or remote via smartphone
- Control the heating system with the voice
- Include integrations with Google Assistant and Amazon Alexa
- Featuring other functions: scheduling and holiday mode, control multiple units and boosting mode, monitoring energy consumption…

Madoka: a user-friendly wired room thermostat

- Sleek and elegant design
- Intuitive touch button control
- Three colours to match any interior (white, black and silver-grey)
- Compact unit measuring only 85 x 85 mm

Domestic hot water production

The monobloc combines with stainless steel tanks (EKHWS(P)-D), thermal stores and panels (EKHWP) to provide domestic hot water quickly.

☑ Man-Machine Interface (MMI)

Inspired by the award-winning design of the Daikin Altherma 3 indoor units, Daikin also upgraded this controller to deliver an even more user-friendly interface.

Quick configuration
After logging in, you'll be able to configure the unit with the new controller in less than 10 steps. You can even check if the unit is ready to use by running test cycles.

Easy operation
The new interface features a few buttons and 2 navigational knobs to help you quickly set the room temperature and control units.

User-friendly design
The interface features an intuitive design. The high contrasted colour screen delivers stunning and practical visuals for both installers and service engineers.

WLAN cartridge connection

Small dimensions for a discreet unit:
136 x 160 x 37 mm (HxWxD)

Consistent compactness

Daikin Altherma 3 M is the most compact heat pump solution, as it only consists of one outdoor unit only. This is therefore ideal for limited space.

Strengthened performances

The Daikin Altherma 3 M shows improved performances as well as a wide product range

- Space heating up to A+++
- Domestic hot water up to A
- Operating down to -25°C
- Delivers LWT 55°C at -15°C without back-up heater
- Suitable for small new buildings, or system replacement

Extended product range

- Heating only models (EDLA*)
- Reversible models providing cooling (EBLA*)
- One-phase models only
- Back-up heater less models (EB/DLA-EV3)
- Plug & play integrated back-up heater models (EB/DLA-E3V3)
- Available in 4, 6 and 8 kW
- Completing the existing range of 9, 11, 14 and 16 kW

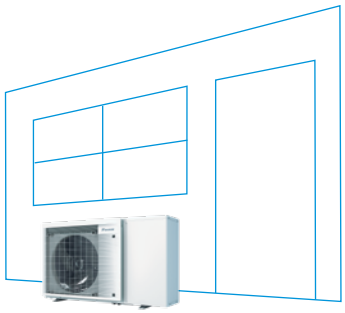
Flexibility in domestic hot water production

- Combination with stainless steel domestic hot water tank (EKHWS(P)(U)-D)
- Combination with ECH$_2$O thermal store EKHWP-(P)B to provide domestic hot water with support from the sun

Perfect match with any heat emitters

- Combination with underfloor heating applications
- Combination with heat pump convectors Daikin Altherma HPC

Fits under a window



DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 M

Air-to-water monobloc system that provides **heating, domestic hot water and optionally cooling**. Ideal for limited installation space.

- WLAN cartridge connection standard included
- Possible to combine with domestic hot water tanks
- Heating only or reversible models available
- Monobloc all-in-one concept including all hydraulic parts
- Optional plug & play integrated 3 kW electric back-up heater
- Available in one phase

EDLA04-08E(3)V3

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

BRC1HHDK

up to A+++ D

A+ F

65 °C

R-32

EBLA04-08EV3 EBLA04-08E3V3 EDLA04-08EV3 EDLA04-08E3V3

Single Unit					EDLA04E(3)V3	EBLA04E(3)V3	EDLA06E(3)V3	EBLA06E(3)V3	EDLA08E(3)V3	EBLA08E(3)V3
Heating capacity	Nom.			kW	4.30 (1)/4.60 (2)	4.30 (1)/4.60 (2)	6.00 (1)/5.90 (2)	6.00 (1)/5.90 (2)	7.50 (1)/7.90 (2)	7.50 (1)/7.80 (2)
Power input	Heating	Nom.		kW	0.84 (1)/1.26 (2)	0.84 (1)/1.26 (2)	1.24 (1)/1.69 (2)	1.24 (1)/1.69 (2)	1.63 (1)/2.23 (2)	1.63 (1)/2.23 (2)
COP					5.10 (1)/3.65 (2)	5.10 (1)/3.65 (2)	4.85 (1)/3.50 (2)	4.85 (1)/3.50 (2)	4.60 (1)/3.50 (2)	4.60 (1)/3.50 (2)
Cooling capacity	Nom.			kW	-	4.86 (1)/4.52 (2)	-	5.83 (1)/5.09 (2)	-	6.18 (1)/5.44 (2)
Power input	Heating	Nom.		kW	-	0.82 (1)/1.36 (2)	-	1.08 (1)/1.55 (2)	-	1.19 (1)/1.73 (2)
EER					-	5.91 (1)/3.32 (2)	-	5.40 (1)/3.28 (2)	-	5.19 (1)/3.14 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		127	129	127	128	130	131
			SCOP		3.26	3.29	3.26	3.28	3.32	3.35
			Seasonal space heating eff. class							
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		176	179	176	178	179	181
			SCOP		4.48	4.54	4.47	5.52	4.56	4.61
			Seasonal space heating eff. class							
Casing	Colour				Ivory white					
	Material				Zinc coated low carbon steel					
Dimensions	Unit	HeightxWidthxDepth		mm	770x1,250x362					
Weight	Unit			kg	EV3: 88, E3V3: 91					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating	Ambient	Min.~Max.	°CWB	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35
		Water side	Min.~Max.	°C	EV3: 9 ~ 65 / E3V3: 15 ~ 65					
	Cooling	Ambient	Min.~Max.	°CDB	-	10 ~ 43	-	10 ~ 43	-	10 ~ 43
		Water side	Min.~Max.	°C	-	5 ~ 22	-	5 ~ 22	-	5 ~ 22
	Domestic hot water	Ambient	Min.~Max.	°CDB	-27 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 55					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	1.85					
	Charge			TCO2Eq	0.91					
	Control				Expansion valve					
Sound power level	Heating	Nom.		dBA	58		60		62	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230					
Current	Recommended fuses			A	20				25	

(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 55°C (DT=5°C).
This product contains fluorinated greenhouse gases.

*Domestic hot water in combinations with stainless steel tank EKHWS(P)(U)-D and ECH$_2$O thermal store EKHWP-(P)B.

Daikin Altherma 3 M (11-14-16 kW)

The power pact

The Daikin Altherma 3 M is the Daikin's first third generation monobloc, benefiting from a new design and using the R-32 refrigerant.

Compact improved design

A redesigned casing
The black front grill made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

The light grey casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

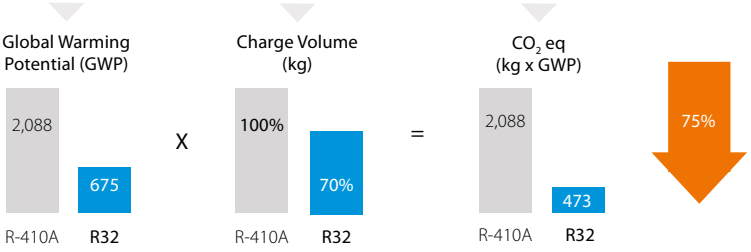
A single fan for high capacity units
The single fan is slightly larger, replacing the usual double fan for high capacity units. The shape of the fan has also been reviewed to reduce the contact surface with air therefore lower the sound level by improving the air circulation.

R-32 monobloc

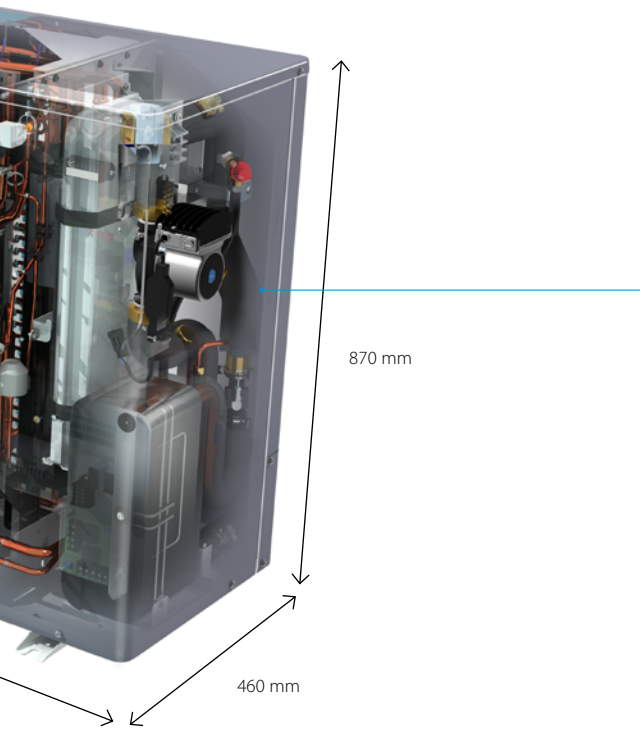
Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

Reduced environmental impact: CO_2eq > 75% reduction

- GWP: R410A: 2,088 > R32: 675
- 30% less refrigerant charge needed



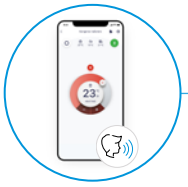
R-32 BLUEVOLUTION



A simple solution to space limitation
Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monobloc can even fit under a window!

Fully connected

The Daikin Altherma 3 M also finds its power in Daikin Altherma total solution, including controls, heat collectors and heat emitters.



Onecta App, with voice control

- Control the heating system from home or remote via smartphone
- Control the heating system with the voice
- Include integrations with Google Assistant and Amazon Alexa
- Featuring other functions: scheduling and holiday mode, control multiple units and boosting mode, monitoring energy consumption…

Cloud ready with WLAN option

Madoka, user-friendly wired room thermostat

- Sleek and elegant design
- Intuitive touch-button control
- Three colours to match any interior (white, black and silver-grey)
- Compact, measures only 85 x 85 mm

DESIGN AWARD 2018

reddot award 2018 winner

Heating and cooling emitters

As a mid-temperature heat pump, the Daikin Altherma 3 M fits perfectly with any type of emitters such as fan coils, underfloor heating or heat pumps convectors.

Man-machine interface
Inspired from the design awarded Daikin Altherma third generation interface of indoor units, this new controller gathers all benefits:

☑ **The Daikin Eye**
The intuitive Daikin eye shows you in real time the status of the system. Blue is perfect! Should the eye turn red, an error has occured.

☑ **Quick to configure**
Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps. You can even check if the unit is ready for use by running test cycles!

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

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

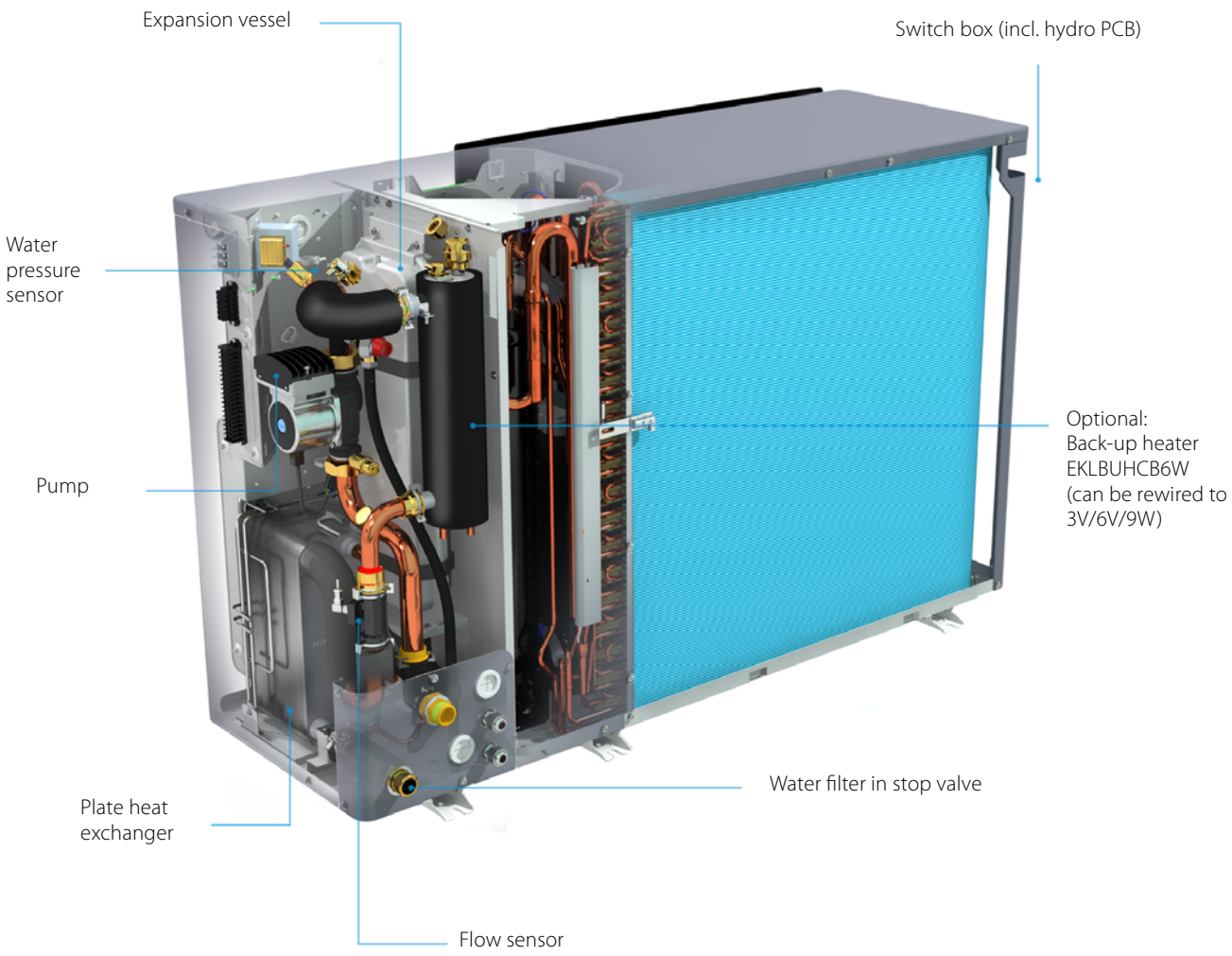
☑ **WLAN cartridge connection**

☑ **Discreet thanks to small dimensions**
H x W x D 136 x 160 x 37 mm

Domestic hot water production
The Daikin Altherma 3 M monobloc combines with stainless steel tanks (EKHWS(P)-D) and thermal stores and panels (EKHWP) to provide efficient domestic hot water.

Straight forward installation & maintenance

The Daikin Altherma 3 M also gets its power from inside by including all hydraulic components into one single unit.



Comfort and premium performance

The Daikin Altherma 3 M shows improved performances as well as a wide product range.

Extended product range

- Heating only models (EDLA*)
- Reversible models providing cooling (EBLA*)
- One-phase models (EB/DLA-DV*)
- Three-phase models (EB/DLA-DW*)
- Back-up heater models (EB/DLA-D3V/D3W)
- Back-up heater less models (EB/DLA-D/DW)
- All available in 9, 11, 14 and 16 kW

Improved performances

- Up to A+++
- Operation down to -25°C outside temperature
- Guaranteed heating capacities down to -20°C
- Delivers LWT 60°C at -7°C
- Suitable for renovations, replacement, and large new buildings

Flexibility in domestic hot water production

- Combination with stainless steel domestic hot water tank (EKHWS(P)(U)-D)
- Combination with ECH$_2$O thermal store to provide domestic hot water with support from the sun

Perfect match with any heat emitters

- Combination with underfloor heating applications
- Combination with heat pump convectors Daikin Altherma HPC

Daikin Altherma 3 M

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

- W-LAN cartridge connection (optional)
- Possible to combine with domestic hot water tanks
- Heating only air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- Available with Built-in 3 kW electric back-up heater for additional heating or with a separate back-up heater kit
- Available in one phase and three phase

up to A+++ (A+++ to D)

60 °C

R-32

011-1W0423 → 426

EDLA09-14DV3 | EDLA09-14D3V3 | EDLA09-14DW1 | EDLA09-14D3W1 | EDLA-DV37 | EDLA-DW17 | EDLA-D3V37 | EDLA-D3W17

Single Unit				EDLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3/D(3)W1
Heating capacity	Nom.			kW	9.37 (1)/9.00 (2)	10.6 (1)/9.82 (2)	12.0 (1)/12.5 (2)	16.0 (1)/16.0 (2)
Power input	Heating	Nom.		kW	1.91 (1)/2.43 (2)	2.18 (1)/2.68 (2)	2.46 (1)/3.42 (2)	3.53 (1)/4.56 (2)
COP					4.91 (1)/3.71 (2)	4.83 (1)/3.66 (2)	4.87 (1)/3.64 (2)	4.53 (1)/3.51 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		133	130	132	130
			SCOP		3.39	3.32	3.37	3.33
			Seasonal space heating eff. class		A+++			
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		186	182		
			SCOP		4.72	4.64	4.62	
			Seasonal space heating eff. class		A+++			
Casing	Colour				Silver			
	Material				Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth		mm	870x1,380x460			
Weight	Unit			kg	DV3/DW1: 147, D3V3/D3W1: 149			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Heating	Ambient	Min. ~ Max.	°CWB	DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35			
		Water side	Min. ~ Max.	°C	DV3/DW1: 9 ~ 60, D3V3/D3W1: 15 ~ 60			
	Domestic hot water	Ambient	Min. ~ Max.	°CDB	-25 ~ 35			
		Water side	Min. ~ Max.	°C	25 ~ 55			
Refrigerant	Type				R-32			
	GWP				675			
	Charge			kg	3.80			
	Charge			TCO2Eq	2.57			
	Control				Expansion valve			
Sound power level (3)	Heating	Nom.		dBA	62			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~ /50/230 - W1/3 ~ /50/400			
Current	Recommended fuses			A	32/16			

(1) 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) According to EN14825
This product contains fluorinated greenhouse gases.

DAIKIN altherma

BLUEVOLUTION

Daikin Altherma 3 M

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

- W-LAN cartridge connection (optional)
- Possible to combine with domestic hot water tanks
- Heating and cooling air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- Available with Built-in 3 kW electric back-up heater for additional heating or with a separate back-up heater kit
- Available in one phase and three phase

BRC1HHDW

-25°
Guaranteed operation down to -25°C

Onecta app

Voice control

EDLA09-16DV3/DW1

up to A+++ (A+++ ↑ D)

60 °C

R-32

011-1W0423 → 426

EBLA09-14DV3 EBLA09-14D3V3 EBLA09-14DW1 EBLA09-14D3W1 EBLA-DV37 EBLA-DW17 EBLA-D3V37 EBLA-D3W17

Single Unit					EBLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3(7)/D(3)W1(7)
Heating capacity	Nom.				kW	9.37 (1)/9.00 (2)	10.6 (1)/9.82 (2)	12.0 (1)/12.5 (2)	16.0 (1)/16.0 (2)
Power input	Heating	Nom.			kW	1.91 (1)/2.43 (2)	2.18 (1)/2.68 (2)	2.46 (1)/3.42 (2)	3.53 (1)/4.56 (2)
COP						4.91 (1)/3.71 (2)	4.83 (1)/3.66 (2)	4.87 (1)/3.64 (2)	4.53 (1)/3.51 (2)
Cooling capacity	Nom.				kW	9.35 (3)/9.10 (4)	11.6 (3)/11.5 (4)	12.8 (3)/12.7 (4)	14.0 (3)/15.3 (4)
Power input	Cooling	Nom.			kW	2.79 (3)/1.71 (4)	3.56 (3)/2.17 (4)	4.06 (3)/2.51 (4)	4.58 (3)/3.24 (4)
EER						3.35 (3)/5.34 (4)	3.26 (3)/5.31 (4)	3.16 (3)/5.04 (4)	3.06 (3)/4.74 (4)
SEER						5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)			135	132	134	132
			SCOP			3.44	3.37	3.42	3.37
			Seasonal space heating eff. class			A+++			
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)			190	186	185	
			SCOP			4.82	4.73	4.70	4.69
			Seasonal space heating eff. class			A+++			
Casing	Colour					Silver			
	Material					Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth			mm	870x1,380x460			
Weight	Unit				kg	DV3/DW1: 147, D3V3/D3W1: 149			
Compressor	Quantity					1			
	Type					Hermetically sealed swing compressor			
Operation range	Heating	Ambient	Min. ~ Max.		°CWB	DV3(7)/DW1(7): -25 ~ 25, D3V3(7)/D3W1(7): -25 ~ 35			
		Water side	Min. ~ Max.		°C	DV3(7)/DW1(7): 9 ~ 60, D3V3(7)/D3W1(7): 15 ~ 60			
	Cooling	Ambient	Min. ~ Max.		°CDB	10 ~ 43			
		Water side	Min. ~ Max.		°C	5 ~ 22			
	Domestic hot water	Ambient	Min. ~ Max.		°CDB	-25 ~ 35			
		Water side	Min. ~ Max.		°C	25 ~ 55			
Refrigerant	Type					R-32			
	GWP					675			
	Charge				kg	3.80			
	Charge				TCO2Eq	2.57			
	Control					Expansion valve			
Sound power level (5)	Heating	Nom.			dBA	62			
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1 ~ /50/230 - W1/3 ~ /50/400			
Current	Recommended fuses				A	32/16			

(1) 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: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (5) According to EN14825. This product contains fluorinated greenhouse gases.

Combination table and options

			R-32 small monobloc (4-6-8 kW)			
			Without back-up heater		With back-up heater	
			Rev	H/O	Rev	H/O
			EBLA04EV3 EBLA06EV3 EBLA08EV3	EDLA04EV3 EDLA06EV3 EDLA08EV3	EBLA04E3V3 EBLA06E3V3 EBLA08E3V3	EDLA04E3V3 EDLA06E3V3 EDLA08E3V3
Type	**Description**	**Material name**				
Controls	Madoka wired room thermostat	BRC1HHDAK/S/W(7)	•	•	•	•
	Wired digitial thermostat	EKRTWA	•	•	•	•
	Wireless room by room control	Daikin Home Controls (page 288)	•	•	•	•
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	•	•	•	•
	WLAN cartridge	BRP069A78	•	•	•	•
	Universal centralised controller for cascade	EKCC9-W DCOM-LT/IO,-LT/MB	•	•	•	•
Multi-zoning controls	Digital wired room thermostat	EKWCTRDI1V3	•	•	•	•
	Analog wired room thermostat	EKWCTRAN1V3	•	•	•	•
	Actuator	EKWCVATR1V3	•	•	•	•
	Multi-zoning base station (10 channels)	EKWUFHTA1V3	•	•	•	•
Sensors	Remote indoor temperature sensor	KRCS01-1	• (1)	• (1)	• (1)	• (1)
	Remote outdoor temperature sensor	EKRSCA1	• (1)	• (1)	• (1)	• (1)
	Temperature sensor for EKHWS(P)-D	EKTESE1	•	•	•	•
	Temperature sensor for EKHWP-(P)B	EKTESE2	•	•	•	•
Domestic hot water	DHW tank	EKHWS(P)(U)-D(3)V3	•	•	•	•
	Thermal stores	EKHWP500(P)B	•	•	•	•
	Third party tank kit	EKHY3PART	• (2)	• (2)	• (2)	• (2)
	Third party tank kit	EKHY3PART2	• (3)	• (3)	• (3)	• (3)
Heat pump convector	Floor standing	FWXV15/20/25*	• (4)	• (4)	• (4)	• (4)
	Wall mounted	FWXT15/20/25*	• (4)	• (4)	• (4)	• (4)
	Concealed	FWXM15/20/25*	• (4)	• (4)	• (4)	• (4)
Other options	Back-up heater kit	EKLBUHCB6W	• (5)	•		
	By-pass kit	EKMBHBP1	• (5)			
	Generic Bizone kit (PCB only)	EKMIKPOA	•	•	•	•
	Generic Bizone kit	EKMIKPHA	•	•	•	•
	Digital I/O PCB	EKRP1HBAA	• (6)	• (6)	• (6)	• (6)
	Demand PCB	EKRP1AHTA	•	•	•	•
	Anti-freeze valve with diam. 1	AFVALVE1	•	•	•	•
	Anti-freeze valve with diam. 1 1/4"	AFVALVE125	•	•	•	•
	Balancing valve	KBLNVALVE				
	Decoupler	KDECOUP				
	PC USB cable	EKPCCAB4	•	•	•	•
	Smart grid relay kit (high voltage)	EKRELSG	•	•	•	•
	Flow switch	EKFLSW1				
	Flow switch	EKEFLSW2	• (7)	• (7)	• (7)	• (7)

(1) Only 1 sensor can be connected: indoor OR outdoor sensor.
(2) EKHY3PART can be used if you have a tank in which you can insert a thermistor.
(3) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.
(4) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).
(5) Check 'EKMBHBP1 necessity drawing' to decide to install it in combination with reversible models, in order to avoid sweat on the back-up heater.
(6) Additional relays to allow bivalent control in combination with external room thermostat are field supply.
(7) Mandatory if glycol is used.

R-32 large monobloc (9-11-14-16 kW)			
Without back-up heater		With back-up heater	
Rev	H/O	Rev	H/O
EBLA09DV3/W1	EDLA09DV3/W1	EBLA09D3V3/W1	EDLA09D3V3/W1
EBLA11DV3/W1	EDLA11DV3/W1	EBLA11D3V3/W1	EDLA11D3V3/W1
EBLA14DV3/W1	EDLA14DV3/W1	EBLA14D3V3/W1	EDLA14D3V3/W1
EBLA16DV37/W17	EDLA16DV37/W17	EBLA16D3V37/W17	EDLA16D3V37/W17
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
• (1)	• (1)	• (1)	• (1)
• (1)	• (1)	• (1)	• (1)
•	•	•	•
•	•	•	•
• (2)	• (2)	• (2)	• (2)
• (3)	• (3)	• (3)	• (3)
• (4)	• (4)	• (4)	• (4)
• (4)	• (4)	• (4)	• (4)
• (4)	• (4)	• (4)	• (4)
• (5)	•		
• (5)			
•	•	•	•
•	•	•	•
• (6)	• (6)	• (6)	• (6)
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
•	•	•	•
• (7)	• (7)	• (7)	• (7)

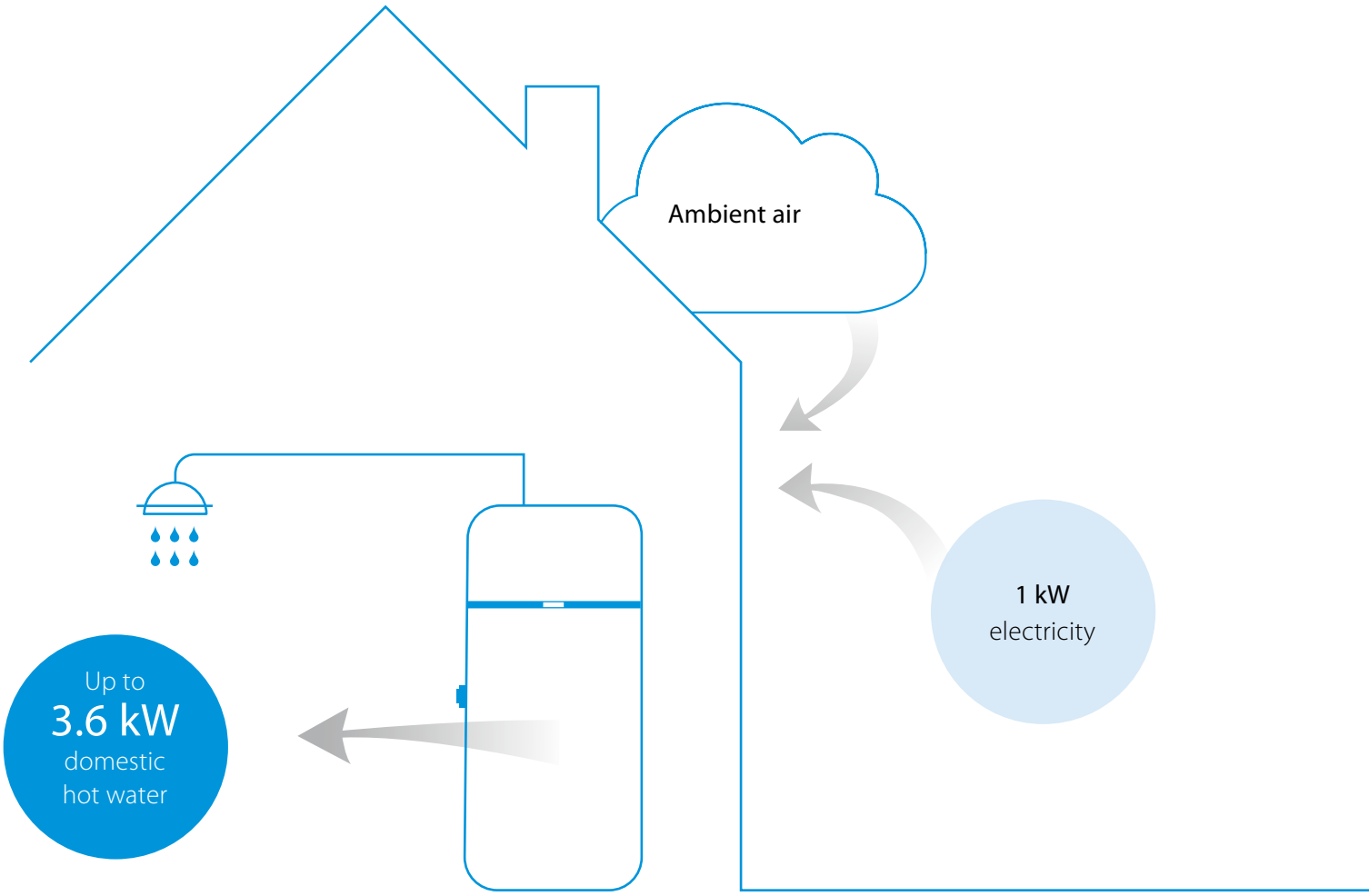
Domestic hot water heat pumps

Why choose Daikin Altherma domestic hot water heat pump?

How does it work?

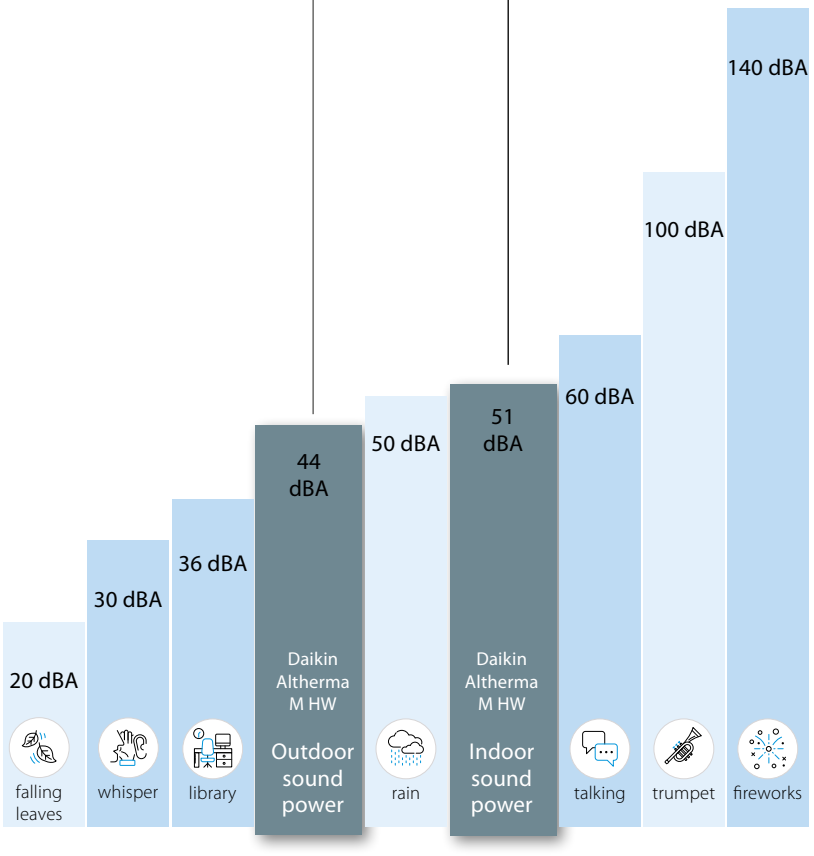
The system is made of a singly indoor unit that extracts energy from the air to provide domestic hot water. The unit collects up to 60% of its energy in the air, while the rest is provided by electricity.

This heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, heating the water up to your needs and delivering it into your house.

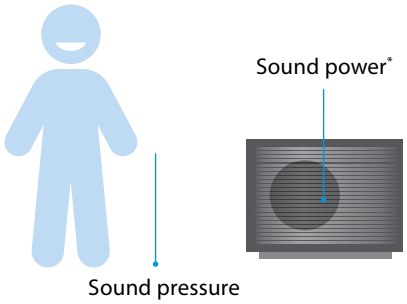


Remarkably quiet

With a sound power of 51dB(A) indoor, and 44dB(A) outdoor, it is one of the most silent domestic hot water heat pump.



Sound pressure scale



The acoustic level can be evaluated in two ways

- The **sound power** is generated by the unit itself, independently of distance and environment
- The **sound pressure** is the sound perceived at a certain distance. The sound pressure is usually calculated at between 1 and 5 metres from the unit.

Product range

EKHHE200CV37 EKHHE200PCV37 EKHHE260CV37 EKHHE260PCV37 EKHLE200CV3 EKHLE260CV3

These models are connectable to solar thermal or another auxiliary source, thanks to an extra coil, support the heat up of domestic hot water.

High temperature models are dedicated for warm climate conditions.

Features

Daikin Altherma M HW is an air-water heat pump for the production of domestic hot water, storage in a enamelled steel tank, with condenser having an external jacket to guarantee top safety and hygiene.

- Maximum temperature of 62 °C from renewable energy with heat pump alone or through a heating element (up to 75 °C)
- Programmable digital interface with TOUCH keys
- Integration through Solar Thermal energy (-PCV37 model)
- Integration with Photovoltaic Solar system

Intuitive controls

A very simple and intuitive display

- White backlit LEDs to control temperature and features
- Red backlit LEDs for alarm warnings
- The 4 side TOUCH keys turn Daikin Altherma M HW on/off (⏻); keys to browse through the MENU (SET) and increase (+) or decrease (-) settings

Fan mode
Air recirculation only

Daikin Altherma M HW only works in ventilation mode. The heat pump and additional heater are off.

FAn

Eco mode
Reneable energy only

Daikin Altherma M HW only works in heat pump mode. The additional heater turns on as a support only if the outdoor temperature is outside the operating range (setpoint 62 °C).

HP

Electric mode
Electrical energy only

Daikin Altherma M HW only works with the additional heater. Set point can be up to 75 °C.

Auto mode
Renewable energy as the preferred option

Daikin Altherma M HW works in heat pump mode by default. The additional heater turns on as a support only if the tank temperature increase is too slow (>4 °C/30 min). Or the outdoor temperature is outside the operating range (setpoint 62 °C).

HP +

Boost mode
Combined use of renewable and electrical energy

Daikin Altherma M HW simultaneously operates as a heat pump and with the additional heater. Setpoint can be up to 75 °C.

Flashing

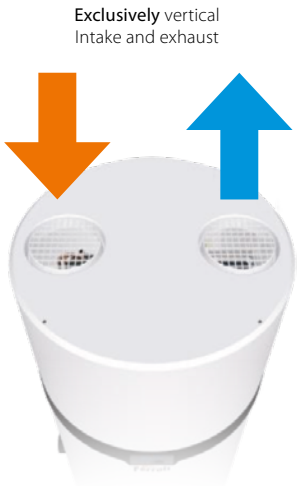
HP +

Specifications

Type	Volume (l)	Capacity	Dimensions (mm)	Optimisation from Photovoltaic	Integrated Solar Thermal Control	Legionella Control Sanitisation	Time slot-based operation	OFF PEAK feature	Defrosting on	Holiday Mode
EKHHE-CV37	200		628 x 628 x 1,607	•	-	•	•	•	•	•
	260		628 x 628 x 1,892	•	-	•	•	•	•	•
EKHHE-PCV37	200		628 x 628 x 1,607	•	•	•	•	•	•	•
	260		628 x 628 x 1,892	•	•	•	•	•	•	•
EKHLE-CV3	200		628 x 628 x 1,607	•	-	•	•	•	-	•
	260		628 x 628 x 1,892	•	-	•	•	•	-	•

Installation

Daikin Altherma M HW can be installed in any room, including non-heated ones like garages and laundry rooms, and does not require any special work, except for the holes for the air intake and exhaust pipes.



Some installation methods

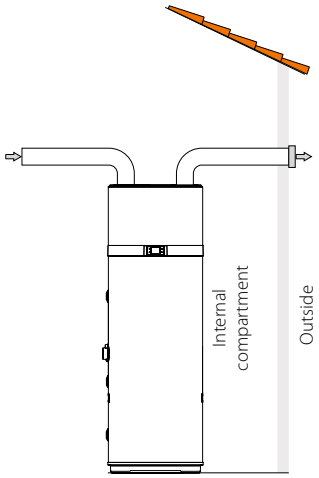


Fig. 1 - Example of air discharge connection

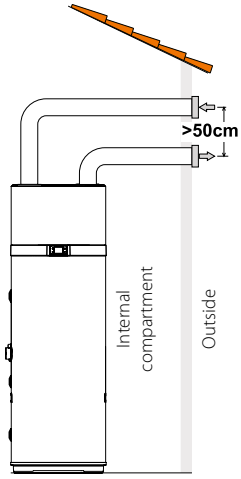


Fig. 2 - Example of air discharge connection

The heat pump requires suitable air ventilation. A suggested method for a designated air duct is provided in Fig. 1. Plus, it is essential to guarantee suitable ventilation in the room where the appliance is installed.

An alternative solution is provided in the picture on the right (Fig. 2): it involves additional ducting that draws air from outdoors, rather than directly from indoors.

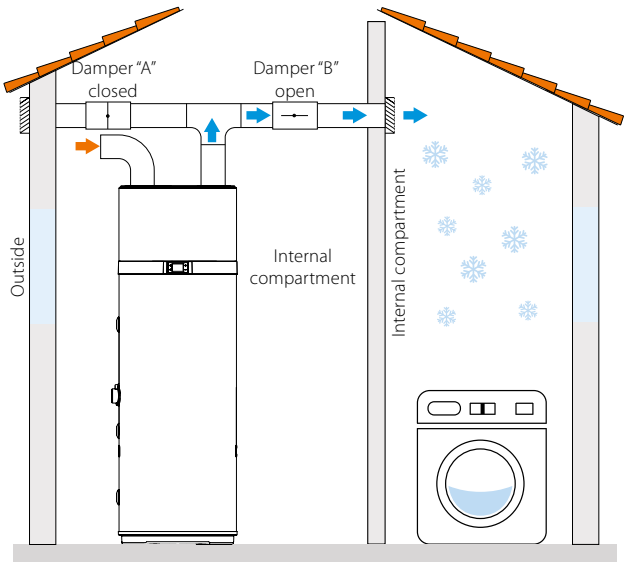


Fig. 3 - Example of installation in summer

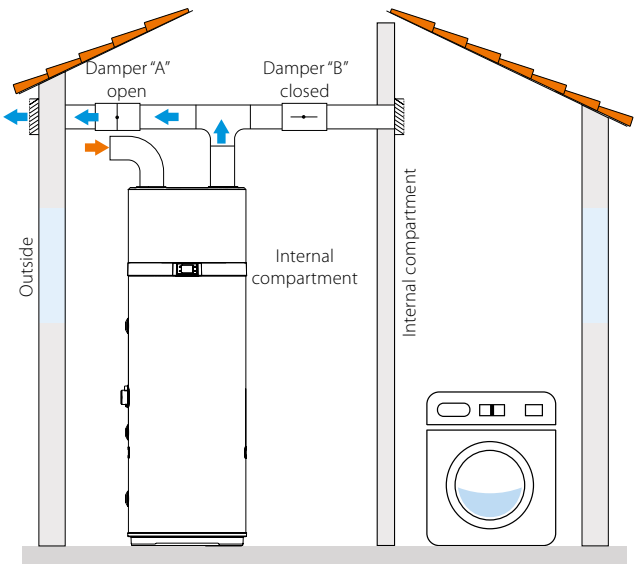
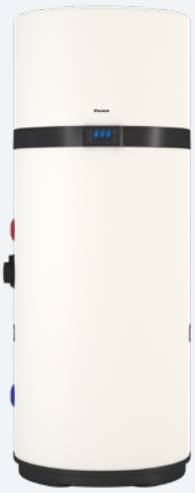


Fig. 4 - Example of installation in winter

One of the unique features of heat-pump heating systems is the fact that these units considerably reduce the temperature of the air, which is usually ejected outdoors. As well as being colder than the air in the room, the ejected air is also completely dehumidified, which is why the airflow can be conveyed back into the home to cool specific areas or rooms in summer. Installation involves doubling the exhaust pipe, on which two dampers ("A" and "B") are applied to convey the airflow either outside (fig. 3) or inside the house (fig. 4).

Daikin Altherma M HW Second Generation

- Available in floor standing (200-260 L)
- Compact modern design
- Anti-legionella cycle
- Scheduled operation
- Integrated solar thermal control (EKHHE-PCV37)
- Suitable for warm climate (EKHLE-CV3)



EKHHE200CV37

EKHHE-CV37 EKHHE-PCV37 EKHLE-CV3

Indoor unit				EK	HHE200CV37	HHE260CV37	HHE200PCV37	HHE260PCV37	HLE200CV3	HLE260CV3
Heat up time	Max.			hh:mm	06:27	09:29	06:27	09:29	07:16	09:44
COP					3.23	3.37	3.23	3.37	4.32	4.32
Domestic hot water	Output	Nom		kW	1.34	1.25	1.34	1.25	1.60	
Equivalent hot water	Max			l	247	340	241	335	247	340
Dimensions	Unit	Height		mm	1,607	1,892	1,607	1,892	1,607	1,892
		Diameter		mm	Top: 621, Bottom: 628					
Weight	Unit	Empty		kg	85	97	96	106	86	98
Installation place					Indoor					
IP class					IP24					
Refrigerant	Type				R-134a					
	GWP				1,430					
	Charge			TCO2Eq	1.43					
	Charge			kg	1					
Heat pump	Casing	Colour			White					
	Defrost method				Hot gas				-	-
	Automatic defrost start			°C	-5				-	-
	System pressure	Max.		bar	7					
	Operation range	Ambient	Min.	°CDB	-7				4	
			Max.	°CDB	43					
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
		Maximum running current		A	8.5				8.2	
Tank	Integrated heating element power	Nom.		kW	1.5					
	Casing	Material			Enamelled steel					
	Installation	Solar thermal connection possible			-	-	Yes	Yes	-	-
	Standing heat loss			W	63	71	63	71	63	70
	Power supply	Phase			1					
		Frequency		Hz	50					
		Voltage		V	230					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Water heating energy efficiency class								
		Thermostat temperature setting		°C	55					
	Average climate	AEC (Annual electricity consumption)		kWh	761	1,210	761	1,210	883	1,315
		ηwh (water heating efficiency)		%	135	138	135	138	116	127
	Cold climate	AEC (Annual electricity consumption)		kWh	944	1,496	944	1,496	883	1,315
	Warm climate	AEC (Annual electricity consumption)		kWh	631	1,046	631	1,046	883	1,315
Sound power level	Domestic hot water heating			dBA	53	51	53	51	52	

This product contains fluorinated greenhouse gases.

reddot award 2018
winner

DESIGN AWARD 2018

Daikin Altherma 3 GEO

Top performance even in coldest climate

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

Space heating

During winter

Space cooling

Active cooling with high efficiency

Domestic hot water production

Integrated 180 L stainless steel tank

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

Renovation and new build

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

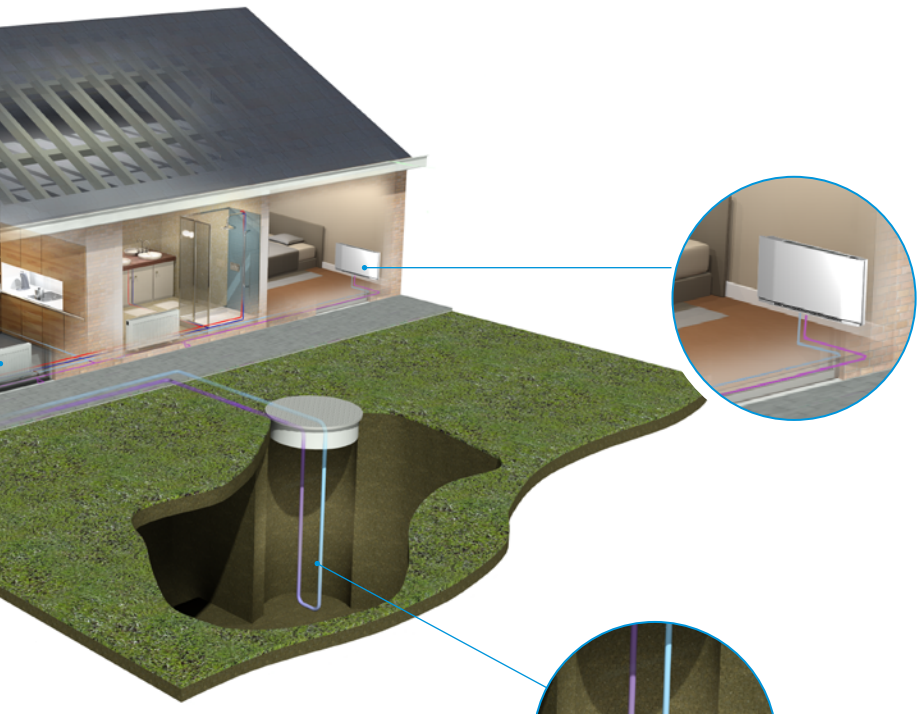
Suitable for new build: the Daikin Altherma 3 GEO is also combinable with fan coils and underfloor piping.

Electricity savings

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

BLUEVOLUTION

Bluevolution technology using R-32, environmentally friendly refrigerant with a lower GWP, reducing its CO_2 equivalent by 70% compared to its predecessor R-410A.



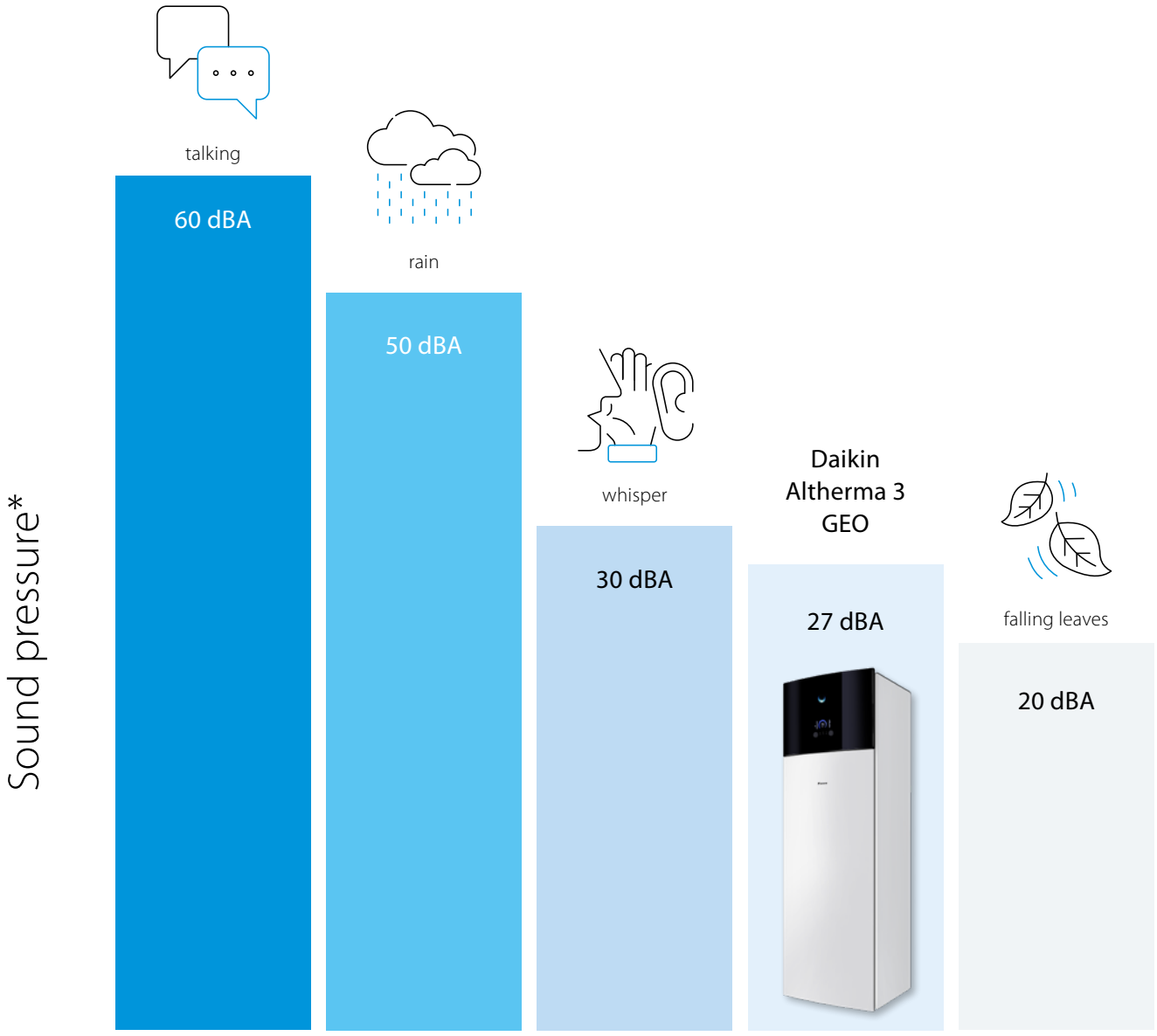
Daikin Altherma HPC provides heating or cooling for living rooms.

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

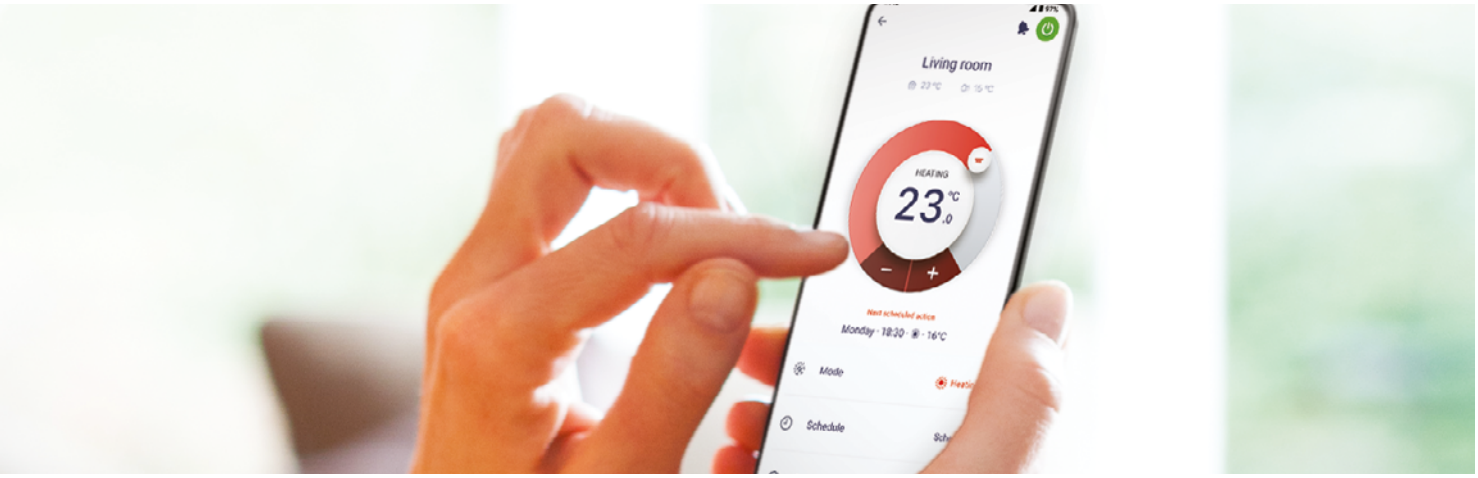
Care for peace of mind

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

Extremely quiet operation



*at 1 meter.

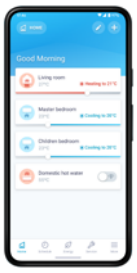


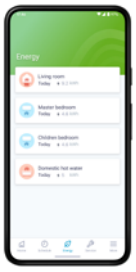
Built-in connectivity

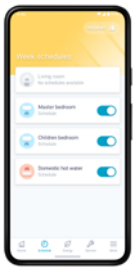
Control your home climate from any place, at any time

Onecta App

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


Control


Monitor


Schedule

- Monitor the status of your heating system
- Control the operation mode and set temperature
- Schedule the set temperature and operation mode
- Control your heating system with your voice

Madoka wired remote controller for Daikin Altherma

A new generation of user interface, designed and intuitive.

BRC1HHDAW7

BRC1HHDAS7

BRC11HHDAK7

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

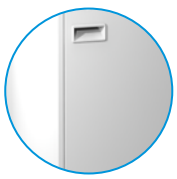
Groundbreaking innovation

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

All pipe connections on top, paired in and out

Standard electrical connections pre-cabled

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



Advanced
user interface

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

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

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

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

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

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

Removable compressor module, reducing the overall weight by 70 kg

Daikin Altherma 3 GEO

Ground source heat pump for **heating, cooling & hot water**

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


EGSAH-D9W


BRC1HHDW

Onecta app

Voice control

up to A+++ ↑ D

A+ ↑ F

65 °C

R-32

011-1W0337
011-1W0338

EGSAH-D9W EGSAX-D9W

Indoor Unit					EGSA	H06D9W	X06D9W	H10D9W	X10D9W
Heating capacity	Min.				kW	0.85			
	Nom.				kW	3.35		5.49	
	Max.				kW	7.98		9.55	
Power input	Nom.				kW	0.74		1.17	
COP						4.51		4.70	
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)		%	141	143	152	154
			Seasonal space heating eff. class			A+		A+	
	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)		%	195	199	197	200
			Seasonal space heating eff. class			A+++			
Domestic hot water heating	General	Declared load profile				L			
	Average climate	ηwh (water heating efficiency)			%	117			
		Water heating energy efficiency class				A			
Space cooling	Medium temperature application	General	SEER			-	15	-	15
			Pdesign		kW	-	8	-	8
	Low temperature application	General	SEER			-	14	-	14
			Pdesign		kW	-	8	-	8
Casing	Colour					White or Silver-grey			
	Material					Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth			mm	1,891x597x666			
Weight	Unit				kg	222			
Tank	Water volume				l	180			
	Insulation	Heat loss			kWh/24h	1.20			
	Corrosion protection					Pickling			
Operation range	Installation space		Min. ~ Max.		°C	5/35			
	Brine side		Min. ~ Max.		°C	-10/30			
	Heating	Water side	Min. ~ Max.		°C	5/65			
	Domestic hot water	Water side	Min. ~ Max.		°C	25/60			
Refrigerant	Type					R-32			
	GWP					675			
	Charge				kg	1.70			
	Charge				TCO2Eq	1.15			
Sound power level	Nom.				dBA	39		41	
Sound pressure level at 1 meter	Nom.				dBA	27		29	
Power supply	Name/Phase/Frequency/Voltage				Hz/V	3 ~ /50/400 or 1 ~ /50/230			
Current	Recommended fuses				A	3P 16A or 1P 32A			

This product contains fluorinated greenhouse gases.

Options

	Type	Material name
Controls	Remote user interface	BRC1HHDAK/S/W
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTRB
	Cascade control	EKCC9-W
	Gateway	DCOM-LT/IO
	Gateway	DCOM-LT/MB
Adapter	Demand PCB	EKRP1AHTA
	Digital I/O PCB	EKRP1HBAA
Sensor	Remote indoor sensor	KRCS01-1
	External sensor	EKRTETS
	Reduce power limiation sensor	EKCSENS
Others	PC cable	EKPCCAB4
	Ground source filling kit	KGSFILL2
	Separate power supply BUH	EKGSPOWCAB
	Magnetic filter Fernox	K.FERNOXTF1
	Magnetic filter Fernox	K.FERNOXTF1FL

Daikin Altherma

Hybrid heat pump

Why choose a Daikin Altherma Hybrid heat pump?

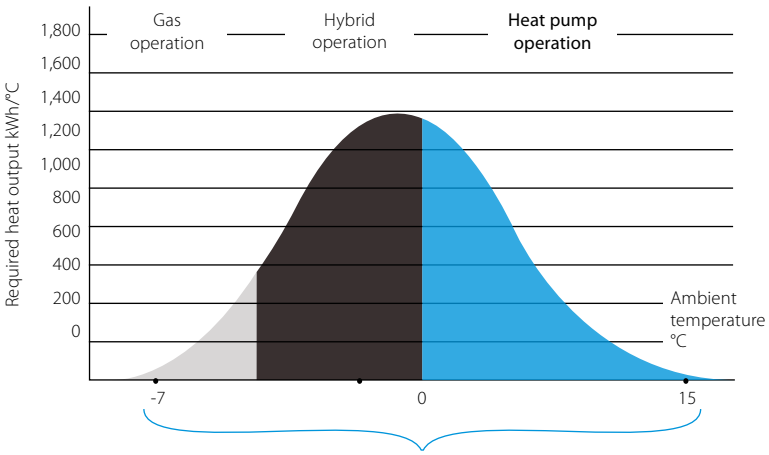
The Daikin Altherma Hybrid heat pump is the ideal solution to replace your old gas boiler.

☑ Comfort

Heating
A Daikin Altherma Hybrid heat pump automatically determines the most economic and energy efficient heating combination.

- **Heat pump operation:** the best available technology for optimising running costs at moderate outdoor temperatures
  Hybrid operation: both the gas boiler and heat pump operate simultaneously to deliver the ultimate comfort for your customer
  Gas operation: when outdoor temperatures drastically drop, the unit will automatically switch to gas operation mode

Illustration of an average European climate

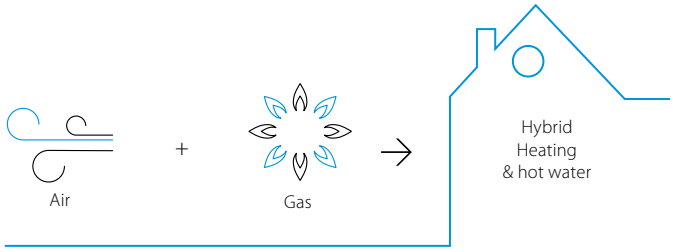


+ 35% efficiency
(space heating) compared to condensing boiler

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

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

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

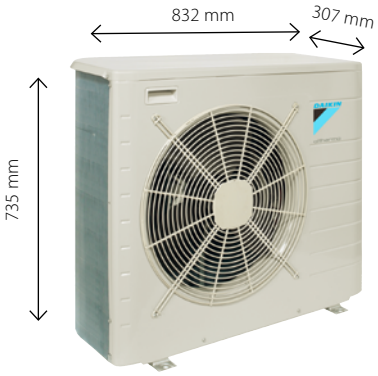


Hot water
The gas condensing boiler's dual heat exchanger increases hot water efficiency by up to 15% when compared with traditional gas boilers.

Cooling
Incorporate cooling for a total solution that provides all year round comfort.

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

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



Heat pump outdoor unit


Heat pump indoor unit

Energy efficiency

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

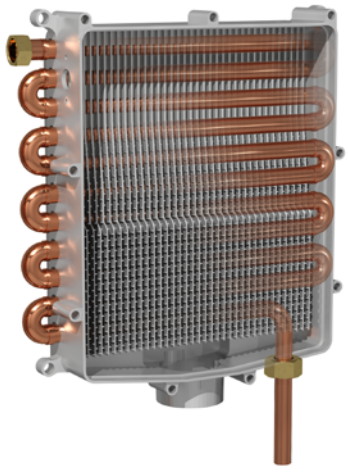
Supported by renewable energy
When working in heat pump mode, the system is powered by renewable energy extracted from the air and can achieve up to **A++ energy efficiency**.

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

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

Reliability

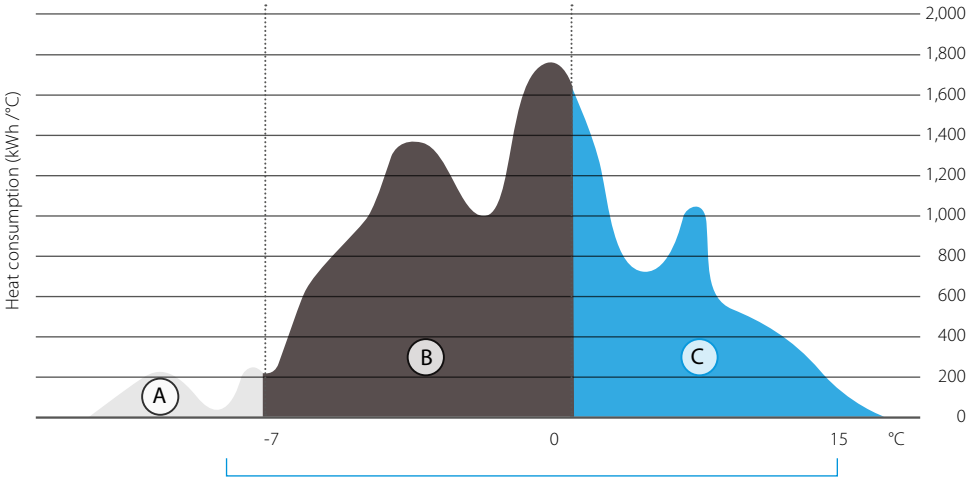
- Low investment cost with no need to replace existing piping and radiators
- Low running costs for heating and domestic hot water
- Compact dimensions
- Ideal for renovation applications
- Easy and fast installation



Case study

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

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



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 €

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

* 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**

DAIKIN altherma

Daikin Altherma R Hybrid

Hybrid technology combining condensing **gas and air to water** heat pump **for heating and hot water**

- Heating only + heating and cooling models
- Depending on outdoor temperature, energy prices and internal heat load, Daikin Altherma Hybrid heat pump always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80 °C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32 kW
- Easy and fast installation thanks to the compact dimensions and quick interconnections

011-1W0313
011-1W0314

EHYHBH-AV32 EHYHBX-AV3 EVLQ-CV3

up to A+++ ↑ D

A A+++ ↑ F

55 °C

R-410A

Efficiency data					EHYHBH05AV32 + EVLQ05CV3	EHYHBH08AV32 + EVLQ08CV3	EHYHBX08AV3 + EVLQ08CV3
Space heating	Average climate water outlet 55 °C	General	SCOP		3.28	3.24	3.29
			ηs (Seasonal space heating efficiency)	%	128	127	129
			Seasonal space heating eff. class			A+	
Domestic hot water heating	General	Declared load profile				XL	
	Average climate	ηwh (water heating efficiency)		%		83.80	
		Water heating energy efficiency class				A	
	Nom.			kW	4.40 (1)/4.03 (2)	7.40 (1)/6.89 (2)	7.40 (1)/6.89 (2)
Cooling capacity	Nom.			kW	-		6.86 (1)/5.36 (2)
Power input	Heating	Nom.		kW	0.870 (1)/1.13 (2)	1.66 (1)/2.01 (2)	1.66 (1)/2.01 (2)
	Cooling	Nom.		kW	-		2.01 (1)/2.34 (2)
COP					5.04 (1)/3.58 (2)	4.45 (1)/3.42 (2)	4.45 (1)/3.42 (2)
EER					-		3.42 (1)/2.29 (2)

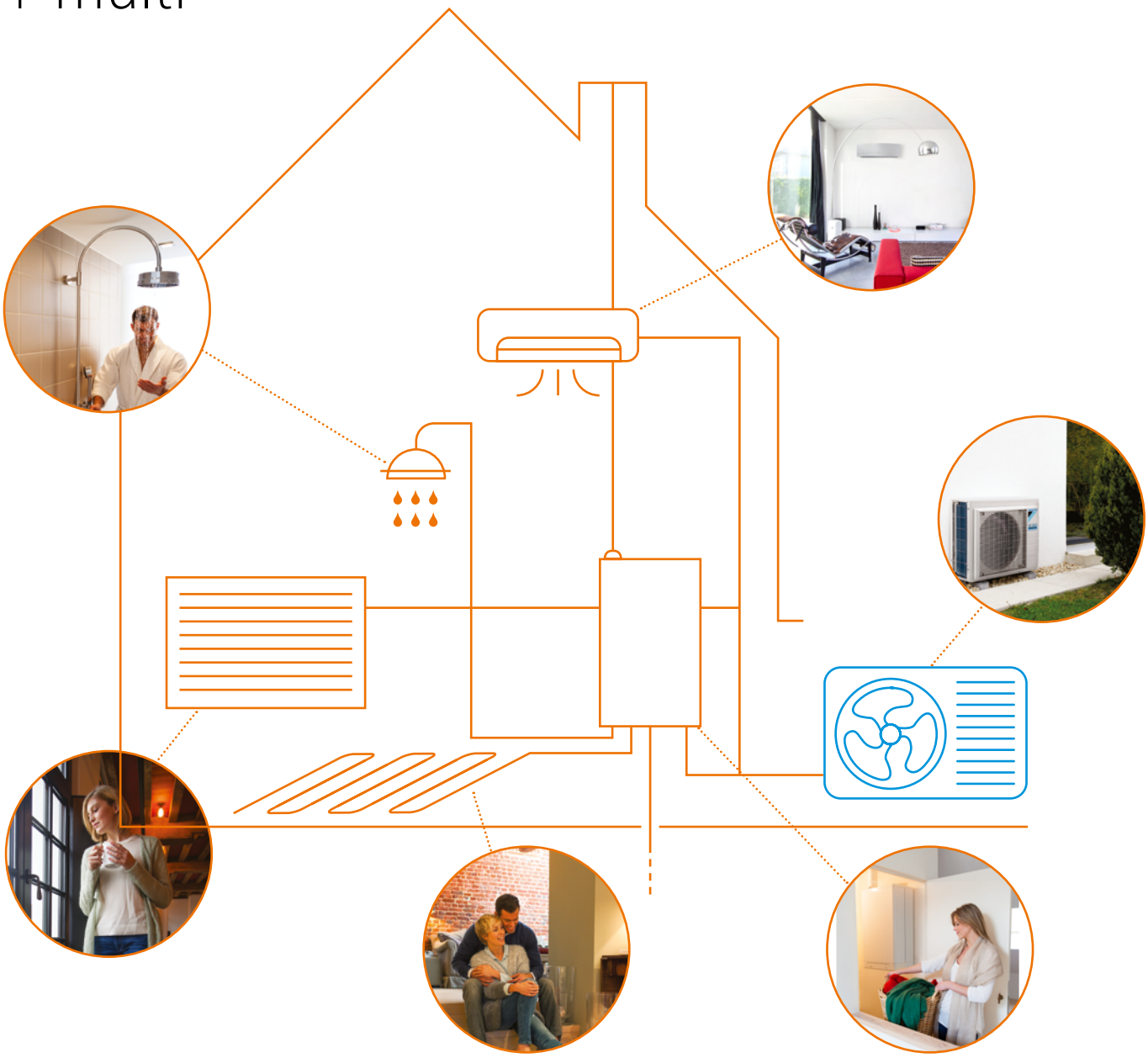
Indoor unit (Hydrobox & Boiler)					EHYHBH05AV32	EHYHBH08AV32	EHYHBX08AV3	EHYKOMB33AA2	EHYKOMB33AA3
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	-			6.20/7.60/7.60/22.10/27/27	
	Output Pn at 80/60 °C	Min/Nom		kW	-			6.70/8.20/8.20/21.80/26.60/26.60	
	Efficiency	Net calorific value		%	-			98/107	
	Operation range	Min/Max		°C	-			15/80	
Domestic hot water	Output	Min/Nom		kW	-			7.60/32.70	
	Water flow	Rate	Nom	l/min	-			9/15	
	Operation range	Min/Max		°C	-			40/65	
Gas	Connection	Diameter		mm	-			15	
	Consumption (G20)	Min/Max		m^3/h	-			0.78/3.39	
	Consumption (G25)	Min/Max		m^3/h	-			0.90/3.93	
	Consumption (G31)	Min/Max		m^3/h	-			0.30/1.29	
Supply air	Connection			mm	-			100	
	Concentric				-			1	
Flue gas	Connection			mm	-			60	
Casing	Colour				White			White - RAL9010	
	Material				Precoated sheet metal			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	902x450x164			710x450x240	
Weight	Unit	Empty		kg	30	31.20		36	
Power supply	Phase/Frequency/Voltage			Hz/V	-			1~/50/230	
Electrical power consumption	Max.			W	-			55	
	Standby			W	-			2	
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 25			-	
		Water side	Min. ~ Max.	°C	25 ~ 55			-	
	Cooling	Ambient	Min. ~ Max.	°CDB	- ~ -		10 ~ 43	-	
		Water side	Min. ~ Max.	°C	- ~ -		5 ~ 22	-	

Outdoor unit				EVLQ05CV3	EVLQ08CV3
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307	
Weight	Unit		kg	54	56
Compressor	Quantity			1	
	Type			Hermetically sealed swing compressor	
Operation range	Heating	Min. ~ Max.	°CWB	-25 ~ 25	
Refrigerant	Type			R-410A	
	GWP			2,088	
	Charge		kg	1.50	1.60
	Charge		TCO2Eq	3	3.30
	GWP			2,088	
Sound power level	Heating	Nom.	dBA	61	62
Sound pressure level	Heating	Nom.	dBA	48	49
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1 ~/50/230	
Current	Recommended fuses		A	16	20

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

Daikin Altherma R Hybrid

+ multi



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

→ Multi features

- ☑ **Equipped with Bluevolution technology**
- ☑ **3, 4 and 5 ports for multi outdoor units**
- ☑ **Combinable with different Split & Sky Air indoor units:**
  One port can be used for hot water production

Control with Onecta App

BLUEVOLUTION

CHYHBH-AV32 EHYKOMB-AA2 EHYKOMB-AA3

	CHYHBH-A		CTXA-AW/BS/BT/BB	FTXA-AW/BS/BT/BB					FTXJ-AW/S/B					CTXM-R		FTXM-R						FTXP-M9			CVXM-A	FVXM-A			FVXM-F			FCAG-B			FFA-A9				FBA-A9			FDXM-F9				FNA-A9				FHA-A9		
	05	08	15	20	25	35	42	50	20	25	35	42	50	15	20	25	35	42	50	60	71	20	25	35	20	25	35	50	25	35	50	60	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	35	50	60
3MXM52A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•		•	•	•		•	•		•	•	•		•	•	•		•	•	
3MXM68A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM68A	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4MXM80A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5MXM90A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Efficiency data					CHYHBH05AV32 /3MXM52A	CHYHBH05AV32 /3MXM68A	CHYHBH05AV32 /4MXM68A	CHYHBH05AV32 /4MXM80A	CHYHBH08AV32 /4MXM80A	CHYHBH05AV32 /5MXM90A	CHYHBH08AV32 /5MXM590A
Heating capacity	Nom.			kW	4.41 (1)	4.50 (1)			6.78 (1)	4.50 (1)	6.78 (1)
COP					4.49 (1)	3.91 (1)		4.04 (1)	4.17 (1)	4.04 (1)	4.17 (1)
Pump					51.80 (1)						
Seasonal efficiency	Domestic hot water heating	General	Declared load profile		XL						
		Average climate	ηwh (water heating efficiency)	%	96						
Water heating energy efficiency class					A						

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C), boiler bypassed

Indoor Unit (Hydrobox)					CHYHBH05AV32	CHYHBH08AV32
Casing	Colour				White	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164	
Weight	Unit			kg	30	
Operation range	Heating	Ambient	Min. ~ Max.	°C	-15 ~ 24	
		Water side	Min. ~ Max.	°C	25 ~ 50	

Indoor unit (Boiler)					EHYKOMB33AA2/AA3
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	6.20/7.60/7.60/22.10/27/27
	Output Pn at 80/60°C	Min/Nom		kW	6.70/8.20/8.20/21.80/26.60/26.60
	Efficiency	Net calorific value		%	98/107
	Operation range	Min/Max		°C	15/80
Domestic hot water	Output	Min/Nom		kW	7.60/32.70
	Water flow	Rate	Nom	l/min	9/15
	Operation range	Min/Max		°C	40/65
Gas	Connection	Diameter		mm	15
	Consumption (G20)	Min/Max		m^3/h	0.78/3.39
	Consumption (G25)	Min/Max		m^3/h	0.90/3.93
	Consumption (G31)	Min/Max		m^3/h	0.30/1.29
Supply air	Connection			mm	100
	Concentric				1
Flue gas	Connection			mm	60
Casing	Colour				White - RAL9010
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	710x450x240
Weight	Unit	Empty		kg	36
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230
Electrical power consumption	Max.			W	55
	Standby			W	2

This product contains fluorinated greenhouse gases.

Options

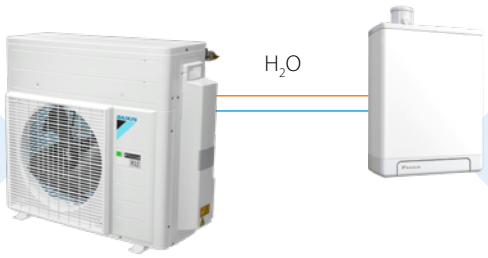
		Type	Material name
Controllers		LAN adapter	BRP069A62
		LAN adapter + PV solar connection	BRP069A61
		Remote user interface (DE, FR, NL, IT)	EKRUCBL1
		Remote user interface (EN, ES, EL, PT)	EKRUCBL3
		Remote user interface (EN, SV, NO, FI)	EKRUCBL2
		Remote user interface (EN, TR, PL, RO)	EKRUCBL4
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

	Type	Material name
Flue gas connections	Adapter Flex-Fixed PP 100	EKFGP6316
	Adapter Flex-Fixed PP 130	EKFGS0252
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 80/125	EKFGP4828
	Chimney Connection 60/10 Air Intake Dn. 80 C83	EKFGV1101
	Chimney Top PP 100 incl. Flue Pipe	EKFGP5497
	Chimney Top PP 130 incl. Flue Pipe	EKFGP5197
	Concentric connection Ø 80/125	EKHY090717
	Connector Flex-Flex PP 100	EKFGP6325
	Connector Flex-Flex PP 130	EKFGP6366
	Connector Flex-Flex PP 80	EKFGP6324
	Connection set 60/10-60 Flue/Air intake Dn. 80 C53	EKFGV1102
	Eccentric connection Ø 80	EKHY090707
	Elbow PP/ALU 80/125 90°	EKFGP4810
	Elbow PP/GLV 60/100 30°	EKFGP4664
	Elbow PP/GLV 60/100 45°	EKFGP4661
	Elbow PP/GLV 60/100 90°	EKFGP4660
	Elbow PP/GLV 80/125 30°	EKFGP4814
	Elbow PP MB-AIR 80 90°	EKFGW4085
	Elbow PP BM-AIR 80 45°	EKFGW4086
	Extension Flex PP 100 l=10 M	EKFGP6346
	Extension Flex PP 100 l=15 M	EKFGP6349
	Extension Flex PP 100 l=25 M	EKFGP6347
	Extension Flex PP 130 l=30 M	EKFGS0250
	Extension Flex PP 80 l=10 M	EKFGP6340
	Extension Flex PP 80 l=15 M	EKFGP6344
	Extension Flex PP 80 l=25 M	EKFGP6341
	Extension Flex PP 80 l=50 M	EKFGP6342
	Extension PP 60 x 500	EKFGP5461
	Extension PP/GLV 60/100 x 1,000 mm	EKFGP4652
	Extension PP/GLV 60/100 x 500 mm	EKFGP4651
	Extension PP/GLV 80/125 x 10,000 mm	EKFGP4802
	Extension PP/GLV 80/125 x 500 mm	EKFGP4801
	Extension P BM-Air 80 x 500	EKFGW4001
	Extension P BM-Air 80 x 1,000	EKFGW4002
	Extension P BM-Air 80 x 2,000	EKFGW4004
	Filling loop set	EKFL1AA
	Flex 100-60 + Support Elbow	EKFGP6354
	Flex 130-60 + Support Elbow	EKFGS0257
	Flex Kit PP Dn.60-80	EKFGP1856
	Flex Kit PP Dn.8	EKFGP2520
	Flue Deflector 60 (UK Only)	EKFGP1295
	Flue gas non-return flap	EKFGF1A
	Gas conversion kit from G20 to G25	EKPS076227
	Inspection Elbow Plus PP/ALU 80/125 90° EPDM	EKFGP4820
	Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
	Plume Managment Kit 60 (UK Only)	EKFGP1294
	PMK Elbow 60 45° (2 pcs) (UK Only)	EKFGP1285
	PMK Elbow 60 90 (UK Only)	EKFGP1284
	PMK Extension 60 l=1,000 incl. breaket (UK Only)	EKFGP1286
	Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
	Roof Terminal PP/GLV 80/125 AR300 Ral-9011	EKFGP6864
	Spacer PP 80-100	EKFGP6333
	Support Breaket Top Inox Dn.100	EKFGP6337
	Support Breaket Top Inox Dn.130	EKFGP6353
	Tee Flex 100 Boiler Connection set 1	EKFGP6368
	Tee Flex 130 Boiler Connection set 1	EKFGP6215
	Thermistor recirculator	EK TH2
	Wall Bracket Dn.100	EKFGP4481
	Wall Bracket Dn.100	EKFGP4631
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP1293
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP297 7
	Wall Terminal Kit PP/GLV 60/100	EKFGP2978
	Wall Terminal Kit PP/GLV 60/100	EKFGP1292
	Wall Terminal Kit PP/GLV 80/125	EKFGW6359
	Wall Terminal Kit low profile PP/GLV 60/100 (UK only)	EKFGP1299
	Weather Slate Flat Alu 60/100	EKFGP6940
	Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
	Weather Slate Flat Alu 80/125	EKFGW5333
	Weather Slate Flat Alu 80/125 0°-15°	EKFGP1297
	Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
	Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
	Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
	Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
	Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
	Weather Slate Steep Pb/GLV 80/125 18°-22°	EKFGT6300
	Weather Slate Steep Pb/GLV 80/125 23°-27°	EKFGT6301
	Weather Slate Steep Pb/GLV 80/125 43°-47°	EKFGT6305
	Weather Slate Steep Pb/GLV 80/125 48°-52°	EKFGT6306
	Weather Slate Steep Pb/GLV 80/125 53°-57°	EKFGT6307
	Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
	Weather Slate Steep PF 80/125 25°-45° Ral-9011	EKFGP7909
	Elbow PP 60/100 90° + MP Generic	DR90ELBO60100AA
	Wall term Mugro STD 60/100 Telescopic	DRWTERT60100AA

Daikin Altherma H Hybrid

The best of 2 worlds

Heat pump



Condensing boiler

Environmentally friendly

- Reduced environmental impact thanks to the usage of **R-32 refrigerant**
- Outdoor unit with **sealed refrigerant circuit**, which greatly reduces the risk of refrigerant leakage

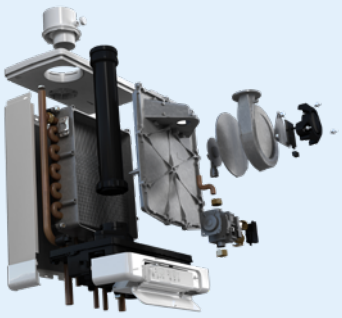
Easy & Quick installation
All hydraulics components are outside.

No F-gas licence required
Only water connections between outdoor and indoor unit. Therefore no F-gas certification is needed for the installer.

Safety in every conditions
The unit can work down to -15 °C outside thanks to multiple freeze-up protections

Flexible installation
Compact indoor unit can be installed in a cupboard.

Condensing technology
The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost savings and environmentally-friendly operation.



Plug & play
No need of other parts, the pump group is integrated inside.

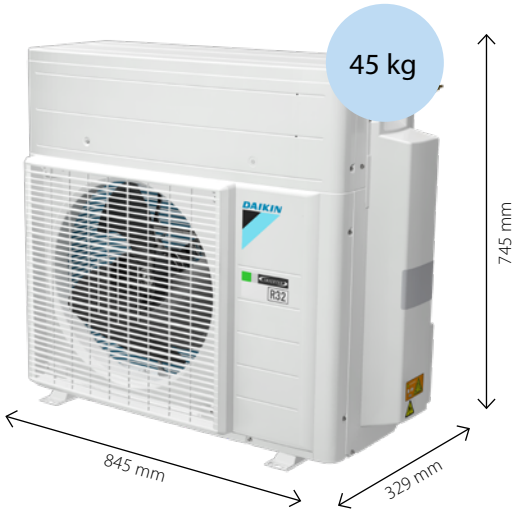
BLUEVOLUTION

The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

Installation possibilities

For more domestic hot water production, you can combine the Daikin Altherma H Hybrid with multiple tank options:

The Daikin Altherma H Hybrid is made of an outdoor unit of 4 kW



The Daikin Altherma H Hybrid is made of a boiler of 28 or 32 kW

Pressureless tanks with solar support

Connect your unit to a ECH$_2$O thermal store and take advantage of the energy of the sun.

EKHWP-(P)B
300 LT or 500 LT

EKS(H/V)-P

Pressurized tanks

Connect your unit with our full range of stainless steel tanks to answer all needs.

EKHWS(P)-D3V3
from 150 LT up to 300 LT

Controllers

EKRUHML1/2

Control

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

Comfort

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

Onecta App

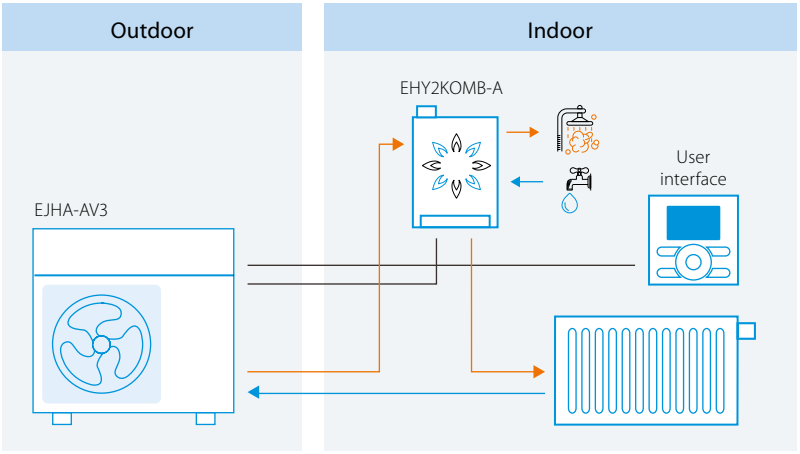
The Onecta App is a multifaceted programme that allows customers to control and monitor the status of their heating system.

Control your heating system with your voice

Applications

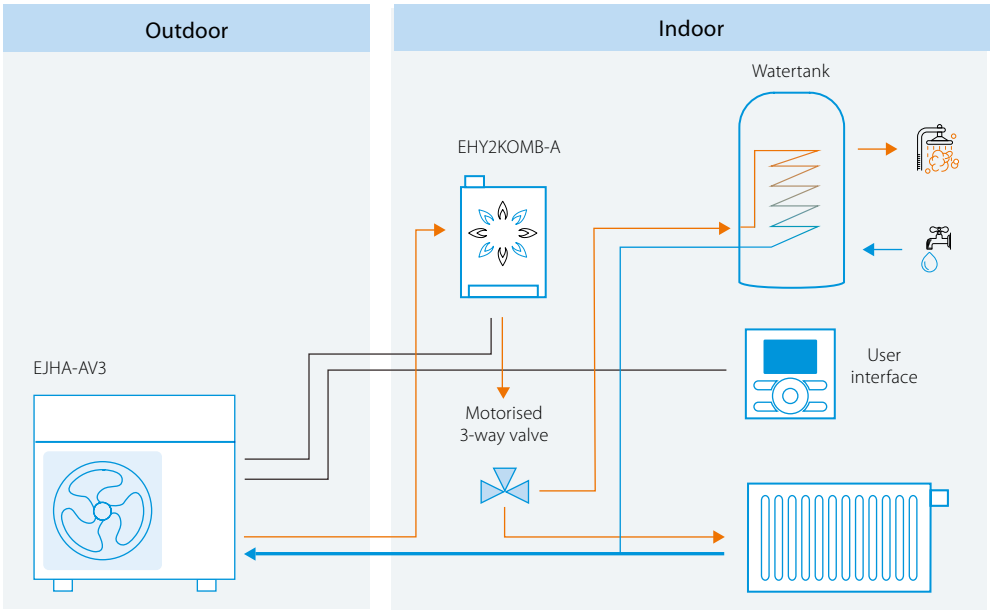
1. Standard Hybrid operation

With this application, the system works in a perfect balance between the gas boiler and the heat pump to provide space heating and domestic hot water. Here, the boiler is able to heat directly the water without a tank.



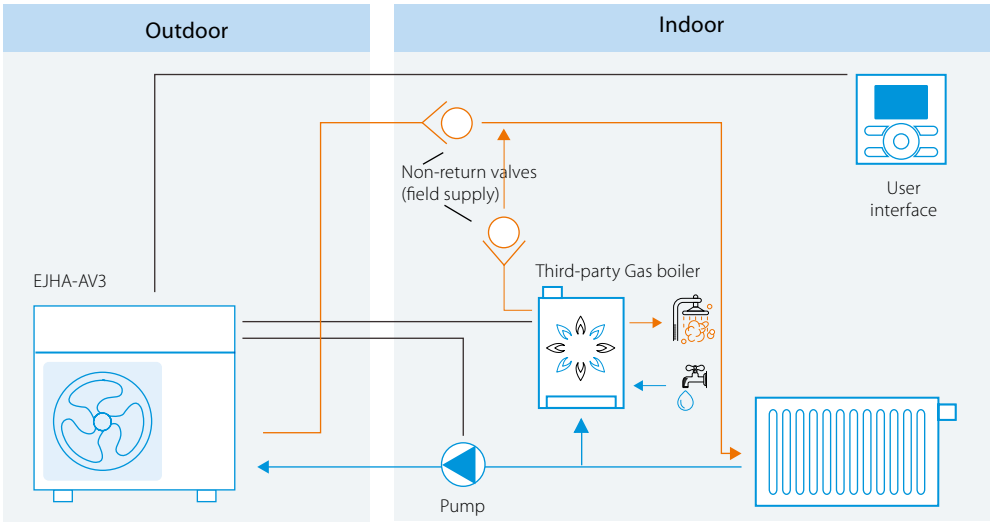
1.1 Standard Hybrid operation with a tank

In this application, a domestic hot water tank can be added if the system needs to provide high quantity of domestic hot water produced either by the heat pump or by the boiler.



2. Add-on operation

Daikin Altherma H Hybrid outdoor unit can be combined with an existing boiler. In such application, the system works in bivalent operation, meaning that this is strictly the heat pump or the boiler that is providing the required heat while in the standard applications, both can work at the same time.



DAIKIN altherma

Daikin Altherma H Hybrid

Hybrid technology combining condensing gas and air to water heat pump for **heating and hot water**

- Heating only models
- Depending on outdoor temperature, energy prices and internal heat load, the Daikin Altherma H Hybrid always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80 °C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32 kW
- Easy and fast installation thanks to the compact dimensions and water connections

011-1W0293

EHY2KOMB-A

EJHA-AV3

up to A+++ ↑ D

A ↑ A+ F

R-32

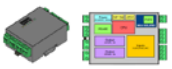
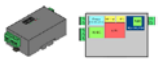
Efficiency data					EHY2KOMB28AA + EJHA04AAV3	EHY2KOMB32AA + EJHA04AAV3
Heating capacity	Nom.			kW	3.83 (1)	
Power input	Heating	Nom.		kW	0.85 (1)	
COP					4.49 (1)	
Space heating	Average climate water outlet 55 °C	General	SCOP		3.26	3.28
			ηs (Seasonal space heating efficiency)	%	128	
			Seasonal space heating eff. class		A++	
	Average climate water outlet 35 °C	General	SCOP		4.14	4.15
			ηs (Seasonal space heating efficiency)	%	163	
			Seasonal space heating eff. class		A+++	
Domestic hot water heating	General	Declared load profile			XL	
	Average climate	ηwh (water heating efficiency)		%	87	
		Water heating energy efficiency class			A	

Indoor unit					EHY2KOMB28AA	EHY2KOMB32AA
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	7.10/23.70	7.60/27
	Output Pn at 80/60 °C	Nom		kW	23.10	26.60
	Efficiency	Net calorific value 80/60		%	98	99
	Efficiency	Net calorific value 37/30 (30%)		%	108	
	Operation range	Min/Max		°C	30/90	
Domestic hot water	Output	Min/Nom		kW	7.10/29.10	7.60/32.70
	Water flow	Rate 40/10 °C		l/min	12.50	15
	Operation range	Min/Max		°C	40/65	
Gas	Connection	Diameter		mm	15	
	Consumption (G20)	Min/Max		m^3/h	0.74/3.02	0.79/3.39
	Consumption (G31)	Min/Max		m^3/h	0.28/1.15	0.30/1.29
Supply air	Connection			mm	100	
	Concentric				1	
Flue gas	Connection			mm	60	
Casing	Colour				White - RAL9010	
	Material				Precoated sheet metal	
Dimensions	Unit	HxWxD	Casing	mm	650x450x240	710x450x240
Weight	Unit	Empty		kg	33	36
Power supply	Phase/Frequency/Voltage			Hz/V	1 ~/50/230	
Electrical power consumption	Max.			W	110	
	Standby			W	2	

Outdoor unit					EJHA04AAV3
Dimensions	Unit		HxWxD	mm	745x845x329
Weight	Unit			kg	45
Compressor	Quantity				1
	Type				Hermetically sealed swing compressor
Operation range	Heating		Min. ~ Max.	°CWB	-14 ~ 25
Refrigerant	Type				R-32
	GWP				675
	Charge			kg	0.56
	Charge			TCO2Eq	0.38
Sound power level	Heating		Nom.	dBA	58.70
Sound pressure level	Heating		Nom.	dBA	37
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~/50/220-240
Current	Recommended fuses			A	20

(1) Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C).
This product contains fluorinated greenhouse gases.

Options - system

Group		Description	Material name	Pair Hybrid	Add-on Hybrid
Controllers		User interface: English – Dutch – Italian – French	EKRUHML1	•	•
		User interface: English – Dutch – Italian – German	EKRUHML2	•	•
		Gateway 1: I/O version	DCOM-LT/IO(2)	•	•
		Gateway 2: Modbus version	DCOM-LT/MB(2)	•	•
		LAN + PV Solar	BRP069A61	•	•
		LAN only	BRP069A62	•	•
		Wired room thermostat	EKRTWA	•	
		Wireless room thermostat	EKRTRB	•	
		External room sensor	EKRTETS(4)	•	
Sensor		Remote outdoor sensor	EKRSCA1(3)	•	•
Other		Thermistor kit for pressurised tanks & 3rd party tank	EKTH3	•	
		Bottom plate heater (dedicated type)	EKBPHT04JH	•	•
		Ball valves	EKBALLV1	•	•
		Add-on: pump	EKADDONJH		•
		Add-on: cable + 2 non-return valves	EKADDONJH2		•
		PC USB cable	EKPCCAB(4)	•	
		Connection kit for 3rd party tank	EKHY3PART	•	
		Connection kit for pressureless tank	EKEPHYHT35H	•	
		Freeze protection valve for field piping	AFVALVEHY2	•	•

(2) Compatible with EKRUHML user interface.
(3) Only 1 sensor can be connected: indoor OR outdoor sensor.
(4) Can only be used in combination with the wireless room thermostat EKRTRB.

Options - boiler

Accessory		Sales region	Material name	EHY2KOMB28AA	EHY2KOMB32AA
Boiler options		IT, ES, CZ, GR, PL, PT	EKFJM1A	•	
		IT, ES, CZ, GR, PL, PT	EKFJL1A		•
		FR, BE	EKFJM2A	•	
		FR, BE	EKFJL2A		•
		DE	EKFJM6A	•	
		DE	EKFJL6A		•
		IT, ES, CZ, GR, PL, PT	EKVK4A	•	•
		DE	EKVK6A	•	•
Filling loop set		All	EKFL1A	•	•
Solar water heater connection set (cable + probe sensor)		All	EKSH1A	•	•
Concentric connection Ø 80/125		All	EKHY090717	•	•
Eccentric connection Ø 80		All	EKHY090707	•	•
Dongle set (wireless connection from PC to boiler)		All	EKDS1A	•	•
Cover plates		All	EKCP1A	•	•
		All	EKHY093467(1)	•	•
Propane sets (G31)		All	EKHY075787		•
		All	EKPS075867	•	
Conversion kits (G25)		DE, BE, FR	EKPS076217	•	
		DE, BE, FR	EKPS076227		•

(1) Cannot be used in combination with B-packs.

	Type	Material name
Flue gas connections	Adapter Flex-Fixed PP 100	EKFGP6316
	Adapter Flex-Fixed PP 130	EKFGS0252
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 60/100	EKFGP4678
	Chimney Connection 80/125	EKFGP4828
	Chimney Connection 60/10 Air Intake Dn. 80 C83	EKFGV1101
	Chimney Top PP 100 incl. Flue Pipe	EKFGP5497
	Chimney Top PP 130 incl. Flue Pipe	EKFGP5197
	Concentric connection Ø 80/125	EKHY090717
	Connector Flex-Flex PP 100	EKFGP6325
	Connector Flex-Flex PP 130	EKFGP6366
	Connector Flex-Flex PP 80	EKFGP6324
	Connection set 60/10-60 Flue/Air intake Dn. 80 C53	EKFGV1102
	Eccentric connection Ø 80	EKHY090707
	Elbow PP/ALU 80/125 90°	EKFGP4810
	Elbow PP/GLV 60/100 30°	EKFGP4664
	Elbow PP/GLV 60/100 45°	EKFGP4661
	Elbow PP/GLV 60/100 90°	EKFGP4660
	Elbow PP/GLV 80/125 30°	EKFGP4814
	Elbow PP MB-AIR 80 90°	EKFGW4085
	Elbow PP BM-AIR 80 45°	EKFGW4086
	Extension Flex PP 100 l=10 M	EKFGP6346
	Extension Flex PP 100 l=15 M	EKFGP6349
	Extension Flex PP 100 l=25 M	EKFGP6347
	Extension Flex PP 130 l=30 M	EKFGS0250
	Extension Flex PP 80 l=10 M	EKFGP6340
	Extension Flex PP 80 l=15 M	EKFGP6344
	Extension Flex PP 80 l=25 M	EKFGP6341
	Extension Flex PP 80 l=50 M	EKFGP6342
	Extension PP 60 x 500	EKFGP5461
	Extension PP/GLV 60/100 x 1,000 mm	EKFGP4652
	Extension PP/GLV 60/100 x 500 mm	EKFGP4651
	Extension PP/GLV 80/125 x 10,000 mm	EKFGP4802
	Extension PP/GLV 80/125 x 500 mm	EKFGP4801
	Extension P BM-Air 80 x 500	EKFGW4001
	Extension P BM-Air 80 x 1,000	EKFGW4002
	Extension P BM-Air 80 x 2,000	EKFGW4004
	Filling loop set	EKFL1AA
	Flex 100-60 + Support Elbow	EKFGP6354
	Flex 130-60 + Support Elbow	EKFGS0257
	Flex Kit PP Dn.60-80	EKFGP1856
	Flex Kit PP Dn.8	EKFGP2520
	Flue Deflector 60 (UK Only)	EKFGP1295
	Flue gas non-return flap	EKFGF1A
	Gas conversion kit from G20 to G25	EKPS076227

	Type	Material name
Flue gas connections	Inspection Elbow Plus PP/ALU 80/125 90° EPDM	EKFGP4820
	Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
	Plume Managment Kit 60 (UK Only)	EKFGP1294
	PMK Elbow 60 45° (2 pcs) (UK Only)	EKFGP1285
	PMK Elbow 60 90 (UK Only)	EKFGP1284
	PMK Extension 60 l=1,000 incl. breaket (UK Only)	EKFGP1286
	Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
	Roof Terminal PP/GLV 80/125 AR300 Ral-9011	EKFGP6864
	Spacer PP 80-100	EKFGP6333
	Support Breaket Top Inox Dn.100	EKFGP6337
	Support Breaket Top Inox Dn.130	EKFGP6353
	Tee Flex 100 Boiler Connection set 1	EKFGP6368
	Tee Flex 130 Boiler Connection set 1	EKFGP6215
	Thermistor recirculator	EK TH2
	Wall Bracket Dn.100	EKFGP4481
	Wall Bracket Dn.100	EKFGP4631
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP1293
	Wall Terminal Kit low profile PP/GLV 60/100	EKFGP297 7
	Wall Terminal Kit PP/GLV 60/100	EKFGP2978
	Wall Terminal Kit PP/GLV 60/100	EKFGP1292
	Wall Terminal Kit PP/GLV 80/125	EKFGW6359
	Wall Terminal Kit low profile PP/GLV 60/100 (UK only)	EKFGP1299
	Weather Slate Flat Alu 60/100	EKFGP6940
	Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
	Weather Slate Flat Alu 80/125	EKFGW5333
	Weather Slate Flat Alu 80/125 0°-15°	EKFGP1297
	Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
	Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
	Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
	Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
	Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
	Weather Slate Steep Pb/GLV 80/125 18°-22°	EKFGT6300
	Weather Slate Steep Pb/GLV 80/125 23°-27°	EKFGT6301
	Weather Slate Steep Pb/GLV 80/125 43°-47°	EKFGT6305
	Weather Slate Steep Pb/GLV 80/125 48°-52°	EKFGT6306
	Weather Slate Steep Pb/GLV 80/125 53°-57°	EKFGT6307
	Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
	Weather Slate Steep PF 80/125 25°-45° Ral-9011	EKFGP7909
	Elbow PP 60/100 90° + MP Generic	DR90ELBO60100AA
	Wall term Mugro STD 60/100 Telescopic	DRWTERT60100AA

Boilers

Condensing boilers

Why choose a condensing boiler?

Daikin's gas or oil condensing boilers are the best option for individual that plan to replace an existing boiler with a more energy efficient and cost-saving alternative. Our wall mounted boilers provide end users with reliable performance and efficient heating and hot water.

Condensing technology

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

With the combustion of 1 m^3 natural gas, 1.7 kg of water vapour is released in the flue gas as latent heat. Instead of being disposed through the flue, the water vapour containing latent heat is then recirculated, and subsequently reheated by a uniquely designed exchanger.

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

☑ Comfort

Daikin's gas condensing boilers deliver the ultimate in comfort. Optimal heating ensures seamless operation to deliver reliable year-round heating, even in extreme weather conditions. Instant hot water is possible with our combi range, but also possible with a separate thermal store featuring the ECH_2O tank.

☑ Energy efficiency

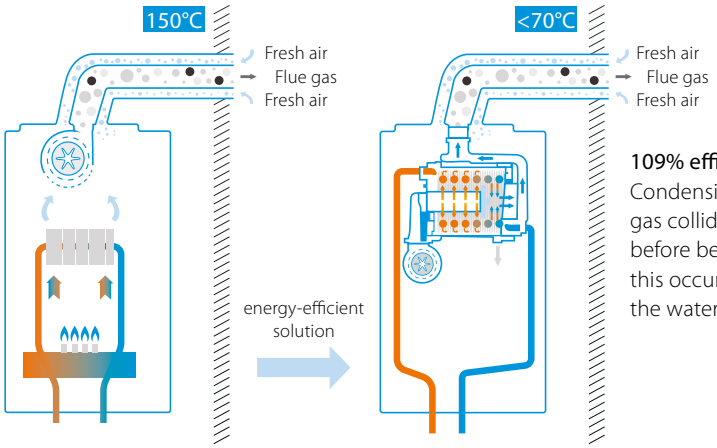
Condensing technology
Using latent heat in the flue gas, our condensing technology achieves 109% more energy efficiency by using renewable energy to produce hot water.

☑ Flexibility

Easy installation and service
All parts are accessible from the front and are low maintenance. The flue gas installation can be adapted to all kinds of configuration thanks to its flexibility.

Energy waste

93% efficiency
Conventional combi boilers: Water vapour is discharged through the flue in vaporising phase and latent heat within the water vapour is ignored.



109% efficiency
Condensing combi boilers: the flue gas collides with influent water before being discharged. Due to this occurrence, latent heat within the water vapour is then released.

Daikin Altherma 3 C Gas (D2C/TND*)

Wall mounted gas condensing boiler

Why choose the Daikin gas condensing boiler?

Low weight
27 kg

Connectivity/Cloud Service
Always in control, no matter where you are.

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

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

Most compact

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

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

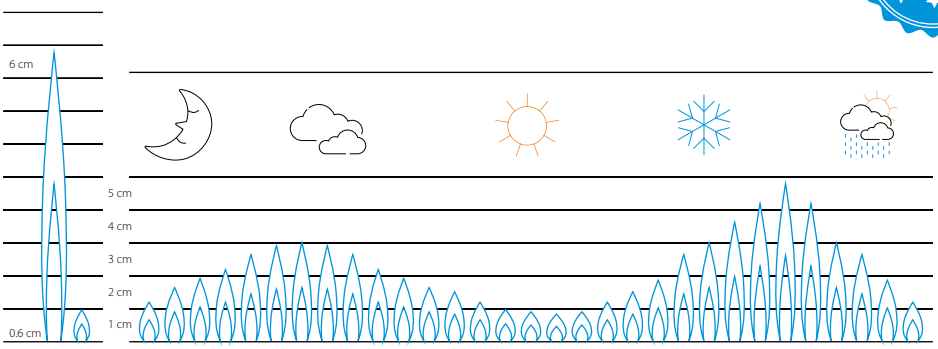
Modulation 1:8
Capacity adapts to required heat of 4 to 28 kW and 5 to 35 kW.

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

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

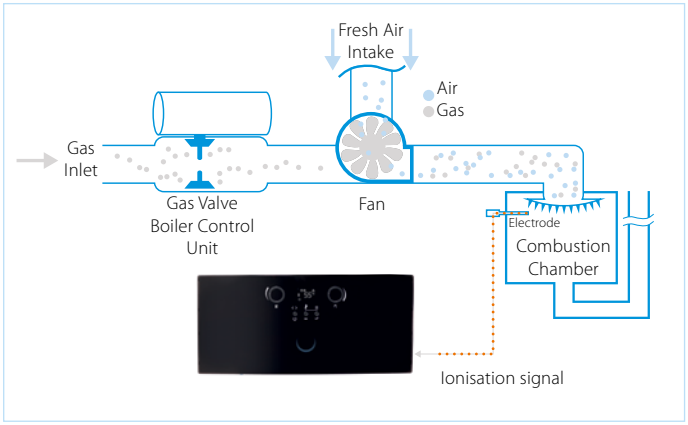
☑ High modulation rate

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



Lambda Gx: automatic gas adaptation system

With the Lambda GX, the correct combination of air and gas is regulated to achieve efficient combustion, which leads to higher cost savings and less installation and adjustment effort. With Lambda Gx, you have the advantage that you need no other parts like a gas cover to change from natural gas (NG) to liquid gas (LPG).



Daikin Eye

You can monitor the operating status of your combi boiler with the Daikin Eye.

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

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

Product features

Flue Adapter 60/100
- Factory mounted
- Compatible with top adapters/elbows of different flue gas manufacturers
- With measurement holes for air and flue gas

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

Expansion Vessel
- Integrated
- 12-18-24 kW: 8 liters
  28-35 kW: 10 liters

Gas Valve
- Less maintenance needed
- Automatic gas adaptive system
- No additional parts/tools for changing from NG to LPG

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

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

Fan
- Wide modulation range
- Low noise

☑ Small gas condensing combi boiler

Heating only: 12-18 kW
Combi: 24 kW

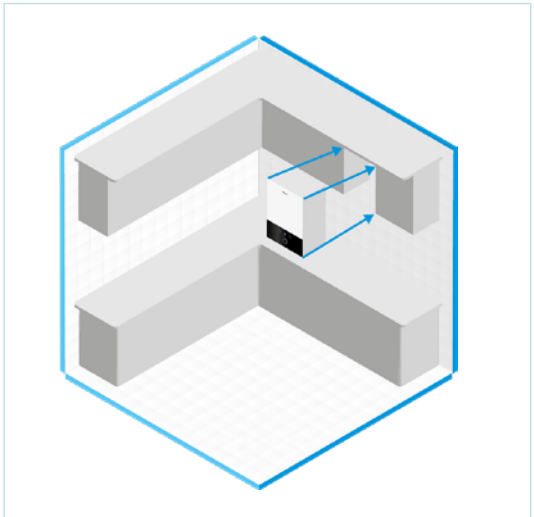
Combi: 28-35 kW

Occupies only
0.06 m³

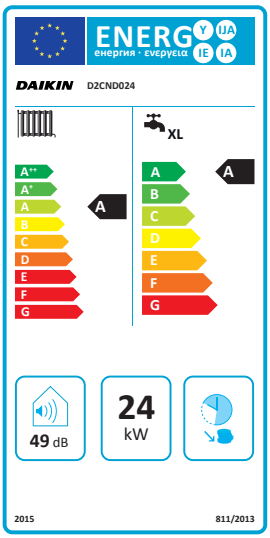
DESIGN AWARD 2018

reddot award 2018
winner

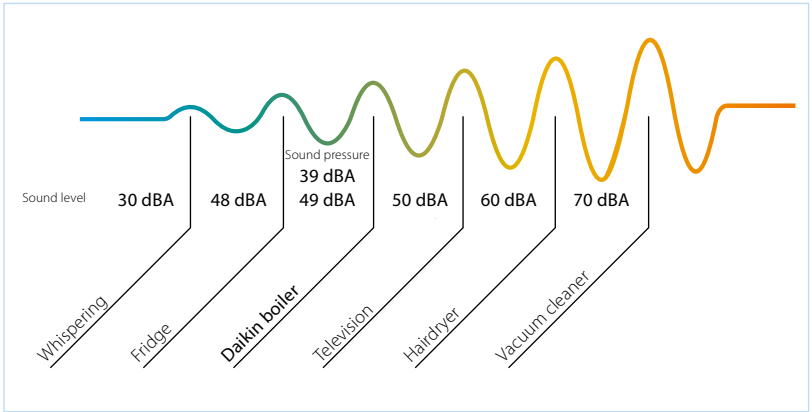
Easy installation & maintenance
The small and lightweight combi boiler guarantees fast installation, minimal maintenance and a flexible system to adapt to various rooms.



High energy class
Energy Class A adheres to European ERP Standards.



Silence
Sound power: 49 db(A): The sound power is the sound level heard when you are close to the unit. The sound level is similar to a dishwasher operating in an adjacent room.
Sound Pressure: 39 db(A): The sound pressure is the sound level heard when you are standing 1 meter from the unit. The sound level is akin to the quiet environment of a library.



☑ Best for your home with compact dimensions

Capacity
T-Model: 12-18-24-28-35 kW.
C-Model: 24-28-35 kW.

Modulation
The device can drop down to 3 kW with a modulation ratio of 1:8. This ensures minimal energy is consumed during start/stop operations.

Full condensation
Latent heat from the flue gas is obtained and added to the system, leading to both increased efficiency and energy savings.

Comfort mode
The DK combi boiler is designed to provide optimal comfort levels.

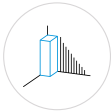
Electrical Protection
Safe combi boiler with a protection class of IP5D.

Efficiency
Achieves up to 109% efficiency with full condensation.

Frequency controlled pump
The frequency control monitors power consumption to boost efficiency and save energy.

Quiet
Delivers a very low sound level that reflects the new EU standards.

Thermo regulation
The device runs the system based on data obtained from the outside temperature sensor and room thermostat.



Compact size
Measuring only 0.06 m^3, this slim, state-of-the-art design combines power with aesthetics.

High energy class
Efficiency class according to EU Ecodesign Lot1 (A).

Lambda Gx system
Superior combustion technology delivers unparalleled efficiency and energy savings.

Premix combustion
Achieves an efficient combustion process by creating the perfect combination of air and gas before it reaches the burner.

Lcd display
Eye-catching and user-friendly design.

Double heat exchanger
The device uses a Daikin-specific main exchanger equipped with in-house technology and a stainless steel domestic water exchanger.

Easy maintenance
Details in design allows for easy maintenance.

Onecta App
Control your indoor unit from any location via app (optional LAN adapter).

Daikin Altherma 3 C Gas

Supremely compact gas condensing boiler **providing heating and hot water**

- Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping
- Easy to service: all parts are accessible by only removing the front panel
- High heating efficiency up to 109%
- High modulating range 1:8: the capacity is adapted based on the required heat load of the house from 3 to 24 kW and 5 to 35 kW
- Combine it with solar heating for even better energy efficiency
- C-model: The combi model means that the boiler has a plate heat exchanger to provide instant domestic hot water
- T-model (tank): The tank model means that the boiler does not have a plate heat exchanger. Domestic hot water is provided by an external storage tank heated by the boiler
- A1 model means that the filling loop is internal
- A4 model means that the filling loop is external

D2CND

D2CND-A1A D2CND-A4A D2TND-A4A

Indoor unit					D2	TND012A4A	TND018A4A	TND024A4A	TND028A4A	TND035A4A	CND024A1A	CND028A4A	CND035A1A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max		kW	2.90/11.20	2.90/17	2.90/23.50	4.80/27	4.80/34	2.90/23.5	4.80/27	4.80/34
	Heat input Qn (gross calorific value)	Nom	Min/Max		kW	3.20/12.40	3.20/18.90	3.20/26.10	5.30/30	5.30/37.80	3.20/26.10	5.30/30	5.30/37.80
	Output Pn at 80/60 °C	Min/Nom			kW	2.80/10.90	2.80/16.60	2.80/22.80	4.60/26.30	4.60/33.20	2.80/22.80	4.60/26.30	4.60/33.20
	Output Pnc at 50/30 °C	Min/Nom			kW	3.10/12	3.10/18	3.10/24	5.20/28.20	5.20/35	3.10/24	5.20/28.20	5.20/35
	Water pressure (PMS)	Max			bar	3							
	Water temperature	Max			°C	100							
	Efficiency	Net calorific value			%	98.60	98.20	97.90	98.20		97.90	-	-
	Operation range	Min/Max			°C	30/80							
	Piping connections					19 (3/4") Male							
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max		kW	2.90/11.20	2.90/17	2.90/23.50	4.80/29.50	4.80/34	2.90/23.50	4.80/29.50	4.80/34
	Heat input (gross calorific value) Qnw	Nom	Min/Max		kW	3.20/12.40	3.20/18.10	3.20/26.10	5.30/32.70	5.30/37.70	3.20/26.10	5.30/32.70	5.30/37.70
	Domestic hot water threshold				L/min	-			2.50		2		
	Temperature	Factory setting			°C	50							
	Operation range	Min/Max			°C	35/60							
Gas	Gas connection diameter				mm	19 (3/4") Male							
	Consumption (G20)	Min/Max			m^3/h	0.31/1.18	0.31/1.80	0.31/2.48	0.511/2.89	0.511/3.63	0.31/2.48	0.511/2.89	0.511/3.63
	Consumption (G25)	Min/Max			m^3/h	0.36/1.38	0.36/2.09	0.36/2.89	0.59/3.32	0.59/4.19	0.36/2.89	0.59/3.32	0.59/4.19
	Consumption (G31)	Min/Max			m^3/h	0.12/0.46	0.12/0.69		0.20/1.10	0.20/1.38	0.12/0.96	0.20/1.10	0.20/1.38
Supply air	Connection				mm	100							
	Concentric					Yes							
Flue gas	Connection				mm	60							
Space heating	General	ηs (Seasonal space heating efficiency)			%	93							
		Seasonal space heating eff. class				A							
Domestic hot water heating	General	Declared load profile				-					XL		
		ηwh (water heating efficiency)			%	-					84		83
		Water heating energy efficiency class				-					A		
Casing	Colour					Titanium White (RAL9003)							
	Material					Sheet metal			Powder painted galvanised steel plate		Sheet metal	Powder painted galvanised steel plate	
Dimensions	Unit	HeightxWidthxDepth	Casing		mm	590x400x256			690x440x295		590x400x256	690x440x295	
Weight	Unit	Empty			kg	27			36		27	37	
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230			1~/50/230			1~/50/230	
Electrical power consumption	Max.				W	86			92	112	86	92	112
	Standby				W	3.50			2.70		3.50	2.70	

Options

Category		Description	Material Nr
Controllers		Outdoor sensor	150042
		Solar Temperature Sensor	DRSLRTESENSAA
		Daikin OT+ room thermostat	DOTROOMTHEAA
		Communication gateway	DRGATEWAYAA
System control - Cascade		Cascade Controller (E8.5064 V1)	DRCASCACONTAA
		Zone Controller (E8.1124)	DRZONECCONTAA
		CoCo OT-CAN Adapter	DRCOCOADPTRAA
		Lago CAN BUS room thermostat	DRCBROOMTHEAA
		Flow temperature sensor (Cascade)	DRFLWTESENSAA
		Outdoor temperature sensor (Cascade)	DRODRTESENSAA
		Storage Tank Temperature Sensor (Cascade)	DRSTKTESENSAA
Flue gas		Connector Elbow PP 60/100 + MP(0 mm)	DRMEEA60100BA
		Twin Box Adapter 80/80 + MP(0 mm)	DRDECOP8080BA
		Vert. Conn. 60/100-80/125 + MP(0 mm)	DRDECO80125BA
Mechanical		Cover plate (12-18-24 kW)	DRCOVERPLATAA
		Cover plate (28-35 kW)	DRCOVERPLA2AA
		Antifreezing set	DRANTIFREEZAB
Valve kit		Valve Kit C1 - 90° valves	DRVALVEKIC1AA
		Valve Kit C2 - 90° valves	DRVALVEKIC2AA
		Valve Kit T1 - 90° valves	DRVALVEKIT1AA
		Valve Kit T2 - 90° valves	DRVALVEKIT2AA
Pump Groups & Other		Seperator for mud and magnetit	SAS1 156021
		Seperator for mud and magnetit	IT.DEFANG-TP
		Seperator for mud and magnetit	IT-DEFANG-OT
		Unmixed Pump Group	DRUPUMPGRUPAA
		Mixed Pump Group	DRMPUMPGURPAA
For service		Service box	DRSERVCBOX1AA - 5020177

Daikin Altherma 3 C Gas (D2CNL)

Base model - Wall mounted gas condensing boiler

The new gas condensing boiler D2CNL-A1A integrates what is essential: neat design, ease of use and installation to provide heating and hot water.

Neat design

The product enjoys the black and white design DNA introduced with the third generation of Daikin Altherma products. Its dimensions and weight make it one of the most compact product of its category.

All-in-one comfort

The product provides space heating and instantaneous domestic hot water without tank, both with an A energy label.

As simple as A+B

The product is really simple to control via its interface. It is also very easy to install and service since all parts are available from the front.

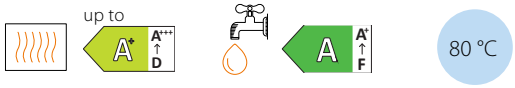
Daikin Altherma 3 C Gas

Supremely compact gas condensing wall mounted boiler **providing heating and hot water**

- Easy to service: all parts are accessible by only removing the front panel
- Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping

D2CNL-A1A

D2CNL-A1A



Indoor unit					D2	CNL024A1A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		4/23.50
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		4.40/26.10
	Output Pn at 80/60°C	Min/Nom		kW		3.80/22.80
	Output Pnc at 50/30°C	Min/Nom		kW		4.40/24
	Water pressure (PMS)	Max		bar		3
	Water temperature	Max		°C		100
	Operation range	Min/Max		°C		30/80
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW		4/25.50
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW		4.40/28.30
	Domestic hot water threshold			L/min		2.30
	Temperature	Factory setting		°C		50
	Operation range	Min/Max		°C		35/60
Gas	Consumption (G20)	Min/Max		m^3/h		0.40/2.50
Supply air	Connection			mm		100
	Concentric					Yes
Flue gas	Connection			mm		60
Space heating	General	Seasonal space heating efficiency class				A
		ηs (Seasonal space heating efficiency)		%		93
Domestic hot water heating	General	Declared load profile				XL
		Water heating energy efficiency class				A
		ηwh (water heating efficiency		%		87
Casing	Colour					Titanium White (Ral9003)
	Material					Powder painted galvanised steel plate
Dimensions	Unit	HxWxD	Casing	mm		590x400x256
Weight	Unit	Empty		kg		27
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230
Electrical power consumption	Max.			W		100
	Standby			W		3

Category		Description	Material Nr
Valve Kit		Valve Kit for Combi Boiler	DRVALVEKIC1AA
Wall Rack		Wall Rack for small boilers	DRWALLRACK1AA
Cover Plate		Bottom cover plate	DRCOVERPLATAA
Flue Gas		Connector Elbow PP 60/100	DRMEEA60100BA
		Twin Box Adapter 80/80	DRDECOP8080BA
		Vert. Conn. 60/100-80/125	DRDECO80125BA

Daikin Altherma C Gas W

High efficiency gas condensing boiler
for heating and hot water

- High efficiency gas condensing boiler
- Top efficiency gas condensing boiler thanks to labyrinth fin heat exhanger for improved heat exchange
- Low running costs for both heating and hot water thanks to new dual heat exchanger
- Maximum heating comfort and domestic hot water when it is most needed
- Quick, easy and compact installation thanks to our optional pre-assembled B-pack, containing all auxiliary components

EHOBG-A EKOMBG-A EKOMB-AH

EKOMB-AH

up to A+++ ↑ D

A ↑ A+++ F

90 °C

Indoor unit					EHOB	G12A	G18A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		3.80/12.50	5.60/18.70
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		4.20/13.90	6.20/20.80
	Output Pn at 80/60 °C	Min/Nom		kW		-/12.20	-/18.20
	Output Pnc at 50/30 °C	Min/Nom		kW		-/-	
	Water pressure (PMS)	Max		bar		3	
	Water temperature	Max		°C		90	
	Operation range	Min/Max		°C		30/90	
Gas	Connection	Diameter		mm		15	
	Consumption (G20)	Min/Max		m^3/h		0.36/1.30	0.58/1.94
	Consumption (G25)	Min/Max		m^3/h		0.42/1.50	0.67/2.25
	Consumption (G31)	Min/Max		m^3/h		0.14/0.49	0.22/0.74
Supply air	Concentric					60/100	
Flue gas	Connection			mm		60	
Space heating	General	ηs (Seasonal space heating efficiency)		%		92	
		Seasonal space heating eff. class				A	
Casing	Colour					White - RAL9010	
	Material					Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	Casing	mm		590x450x240	
Weight	Unit	Empty		kg		30	
Power supply	Phase/Frequency/Voltage			Hz/V		1/50/230	
Electrical power consumption	Max.			W		80	
	Standby			W		2	

Indoor unit					EKOMB	22AH	28AH	33AH	G22A	G28A	G33A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		5.60/18.70	7.10/23.70	7.20/27.30	5.50/23.30	7.10/29.10	7.60/32.70
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW		6.20/20.80	7.90/26.30	8/30.30	6.10/25.90	7.90/32.30	8.40/36.30
	Output Pn at 80/60 °C	Min/Nom		kW		-/17.80	-/22.80	-/26.30	-/22.70	-/28.40	-/32.10
	Water pressure (PMS)	Max		bar		3					
	Water temperature	Max		°C		90					
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW		5.60/22.10	7.10/28	7.20/32.70	5.50/23.30	7.10/29.10	7.60/32.70
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW		6.20/24.60	7.90/31.10	8/36.30	6.10/25.90	7.90/32.30	8.40/36.30
	Domestic hot water threshold			L/min		2			-		2
	Temperature	Factory setting		°C		60					
	Operation range	Min/Max		°C		40/65					
Gas	Connection	Diameter		mm		15					
	Consumption (G20)	Min/Max		m^3/h		0.58/2.29	0.74/2.91	0.75/3.39	0.58/2.42	0.74/3.02	0.79/3.39
	Consumption (G25)	Min/Max		m^3/h		0.67/2.65	0.85/3.26	0.86/3.93	0.62/2.82	0.84/3.46	0.89/3.92
	Consumption (G31)	Min/Max		m^3/h		0.22/0.87	0.28/1.11	0.28/1.29	0.21/0.94	0.29/1.19	0.30/1.29
Supply air	Concentric					60/100					
Flue gas	Connection			mm		60					
Space heating	General	ηs (Seasonal space heating efficiency)		%		91	92	93	91	92	93
		Seasonal space heating eff. class				A					
Domestic hot water heating	General	Declared load profile				L	XL		L	XL	
		ηwh (water heating efficiency)		%		78	81		90	83	84
		Water heating energy efficiency class				A					
Casing	Colour					White - RAL9010					
	Material					Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	Casing	mm		590x450x240	650x450x240	710x450x240	590x450x240	650x450x240	710x450x240
Weight	Unit	Empty		kg		30	33	36	30	33	36
Power supply	Phase/Frequency/Voltage			Hz/V		1~/50/230					
Electrical power consumption	Max.			W		80					
	Standby			W		2					

(1) Setpoint 40 °C (2) Setpoint 60 °C

Options

	Type	Material name	Condensing boilers							
			EKOMB*					EHOB*		
			Combi 22kW TOP Grade	Combi 22kW HIGH Grade	Combi 28kW TOP Grade	Combi 28kW HIGH Grade	Combi 33kW	H/O 12kW	H/O 18 kW	H/O 42kW
Controllers	Rf-wlan converter	EKRFLAN1A	•	•	•	•	•	•	•	•
	Dongle set	EKDS1A	•	•	•	•	•	•	•	•
Installation	Cover plate 35	EKCP1A	•	•	•	•	•	•	•	•
	Solar water heater connection set	EKSH1A	•	•	•	•	•	•	•	•
Sensor	Outdoor sensor	EKOSK1A	•	•	•	•	•	•	•	•
Valve	Valve kit (IT, ES, CZ, GR, PL, PT)	EKVK4A	•	•	•	•	•	•	•	•
	Valve kit (DE)	EKVK5A						•	•	
	Valve kit (DE)	EKVK6A	•	•	•	•	•			
	Valve kit 3-way	EK3WV1A	•	•	•	•	•	•	•	•
B-pack	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJS1A	•	•				•	•	
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJM1A			•	•				
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJL1A					•			•
	B-pack for combi (FR, BE)	EKFJS2A	•	•						
	B-pack for combi (FR, BE)	EKFJM2A			•	•				
	B-pack for combi (FR, BE)	EKFJL2A					•			•
	B-pack for combi (UK)	EKFJS3A	•	•						
	B-pack for combi (UK)	EKFJM3A			•	•				
	B-pack for combi (UK)	EKFJL3A					•			
	B-pack for combi (DE)	EKFJS4A						•	•	
	B-pack for combi (DE)	EKFJS6A	•	•						
	B-pack for combi (DE)	EKFJM6A			•	•				
	B-pack for combi (DE)	EKFJL6A					•			
Propane set		EKHY075787	•							
		EKPS075867				•	•			•
		EKPS075877	•							
		EKPS075917						•		
Conversion set		EKPS076197						•		
		EKPS076207	•						•	
		EKPS076217		•	•				•	
		EKPS076227		•			•			•
Flue gas	Flue gas non return flap (flue gas cascade)	EKFGF1A	•	•	•	•	•	•	•	•
	Horizontal straight flue terminal (low profile) (UK)	EKFGP1A	•		•		•			
Others	Concentric connection (Ø 80/125)	EKHY090717								
	Eccentric connection (Ø 80)	EKHY090707								
	Adaptor set concentric 60/100	EKAS1A	•	•	•	•	•			

Flue-gas evacuation system

Hybrid heat pump

Daikin Altherma Hybrid

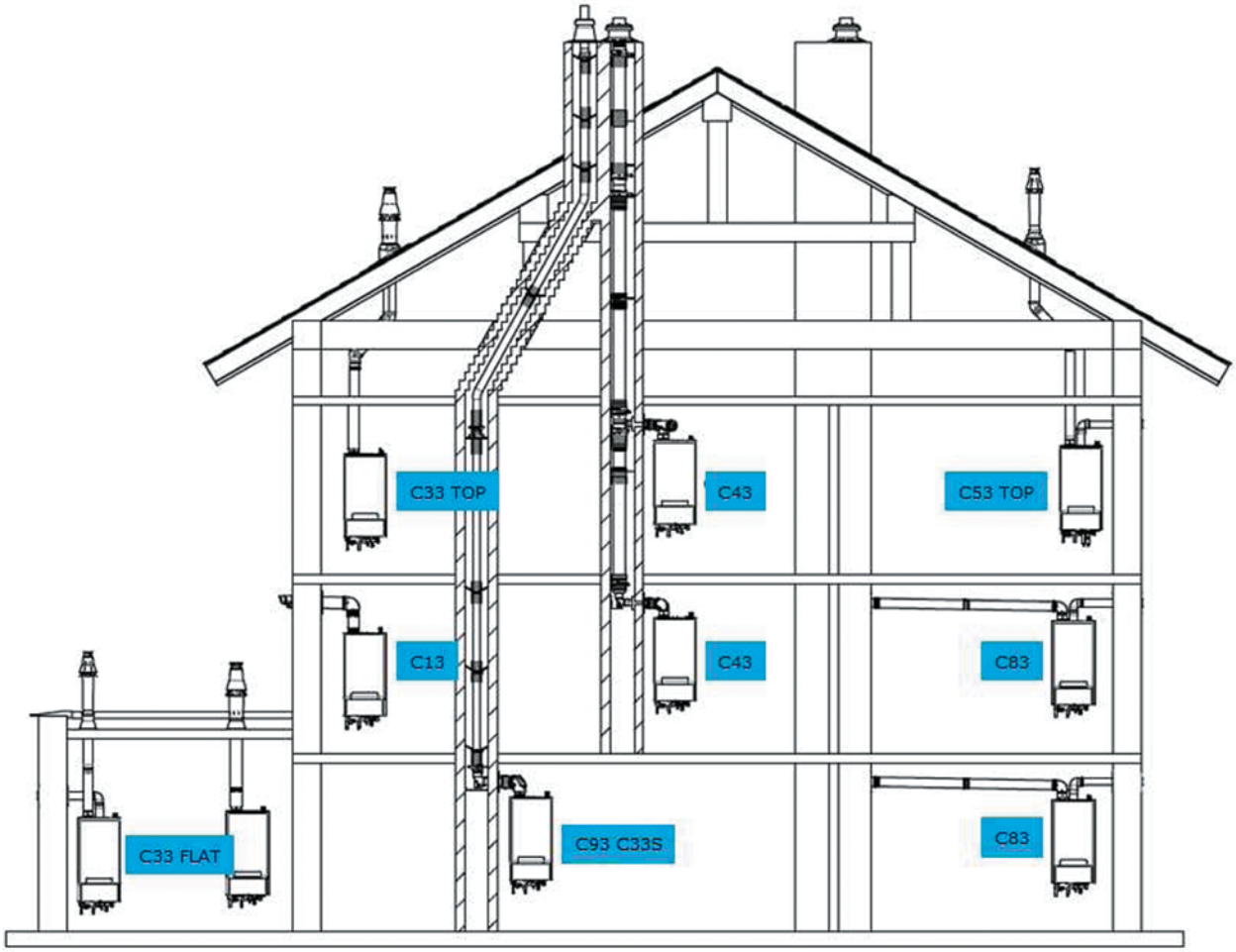
Wall mounted gas condensing boilers

Daikin Altherma C Gas W

Daikin Altherma 3 C Gas W

Overview of Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid

Your guarantee of proper operation, especially in terms of the noise level of our heat generators, depends on the use of our own brand of flue-gas evacuation systems. All our condensing gas- and oil-fired boilers are optimized and adjusted for this use.

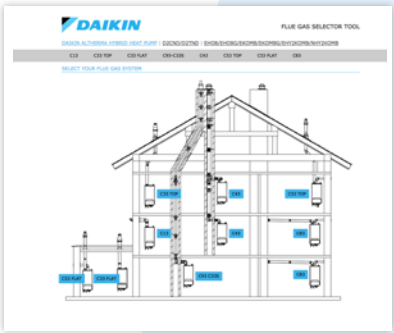


1-8 Variants for Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid
CA Air (combustion) inlet
FG Flue gas
RV Ventilation

Bxx Type CEN/TR1749:2009 for operation dependent on ambient air
Cxx Type CEN/TR1749:2009 for suction operation

a Variant for suction connection (flue gas/concentric air inlet)
b Variant for partial suction connection (flue gas/separated air inlet)
c Variant for connection dependent on ambient air
d Ventilated vertical flue ducts with fire-resistance duration of 90 minutes (30 minutes for low-rise buildings). Respect the locally applicable standards!
e Ventilation opening (1 x 150 cm^2 or 2 x 75 cm^2)
f Ventilation (150 cm^2)

- All flue-gas ducts approved for condensing operation can be installed – an adapter may be needed
- Requirements according to EN 14471: Temperature class T 120, pressure class P1, condensate consistence class W, corrosion-resistance class 2

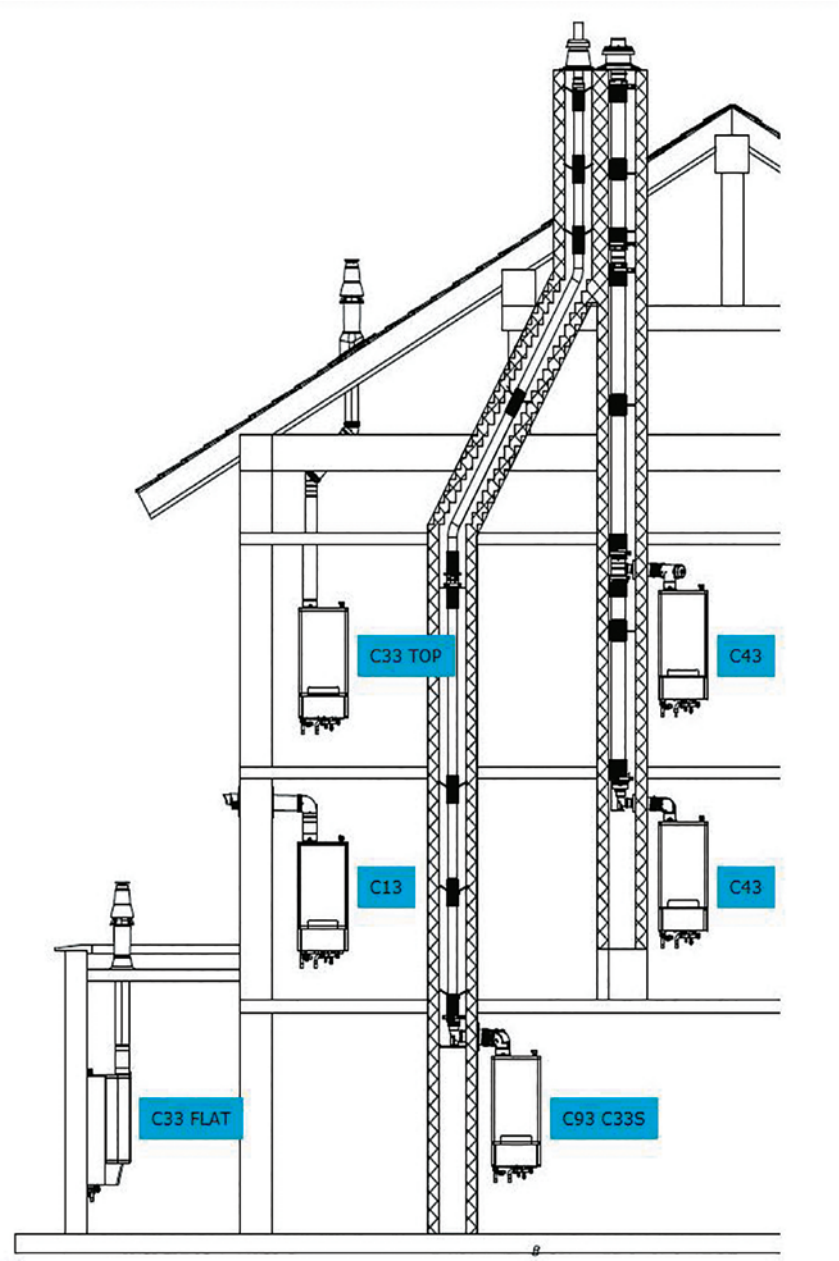


Selection tool

You can determine the optimal solution for your projects using the software for selecting smoke-evacuation accessories.

You can specify suitable flue-gas accessories (obligatory and necessary), depending on the products selected and the installation configurations. You can also opt to make your selection online using our tool at http://fluegas.daikin.eu

Overview of Daikin Altherma C Gas W and Daikin Altherma R/H Hybrid



Selection tool

You can determine the optimal solution for your projects using the software for selecting smoke-evacuation accessories.

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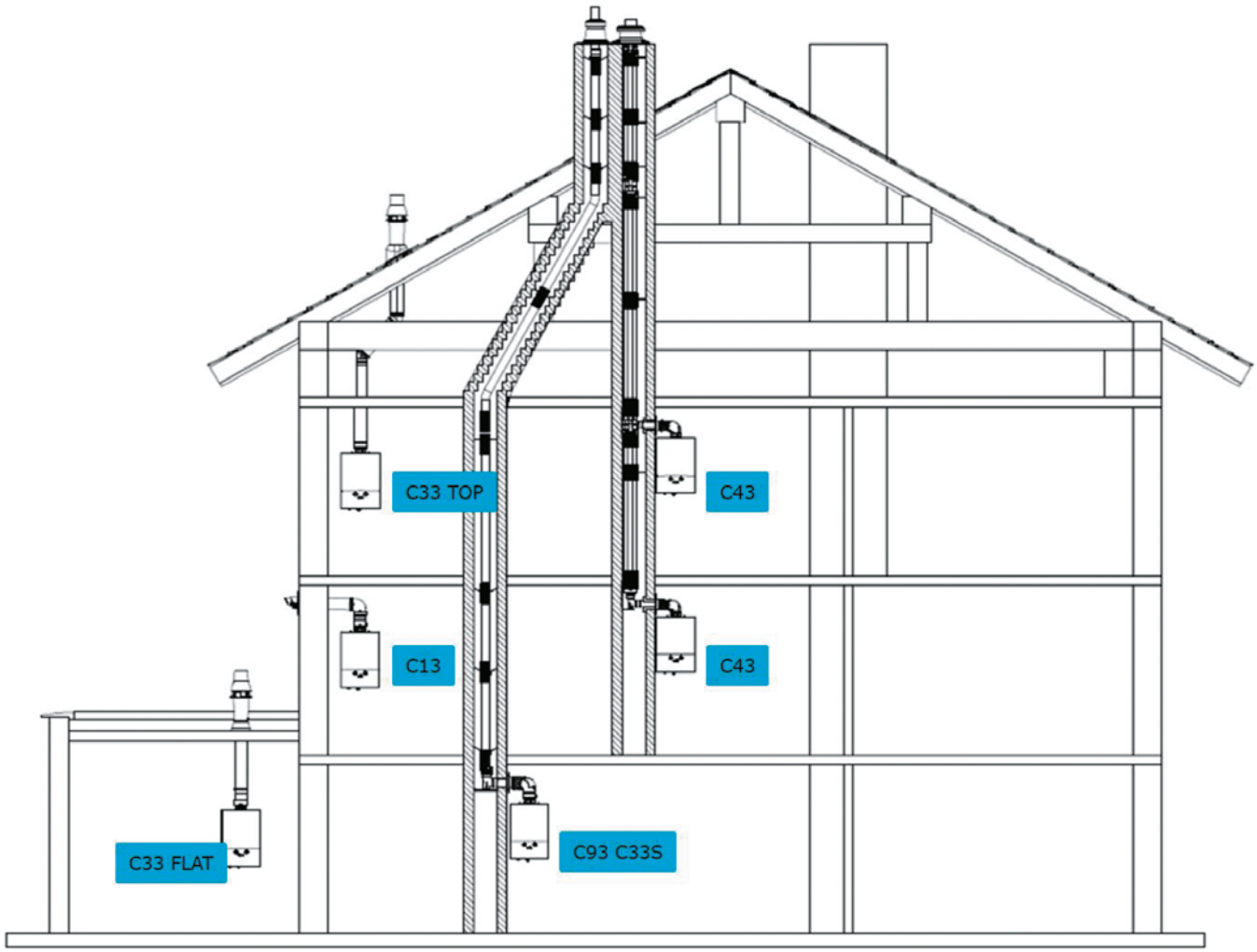
Overview of Daikin Altherma 3 C Gas W



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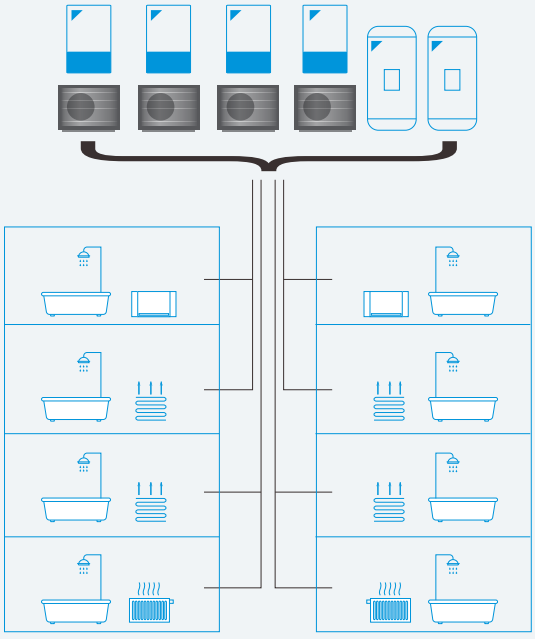
Decentralised

Centralised

P. 265



Daikin solutions for collective buildings

Thanks to a wide range of individual heat pumps, Daikin has always been present in collective buildings with decentralised solutions.

With the long lasting Daikin Altherma Flex Type series, a central solution for hot water production is also part of the portfolio.

Recently, Daikin Altherma 3 WS was launched: a dedicated water loop solution for high-rise buildings.

In that way, Daikin provides multiple flexible solutions for collective buildings.

Semi-centralised: Water loop

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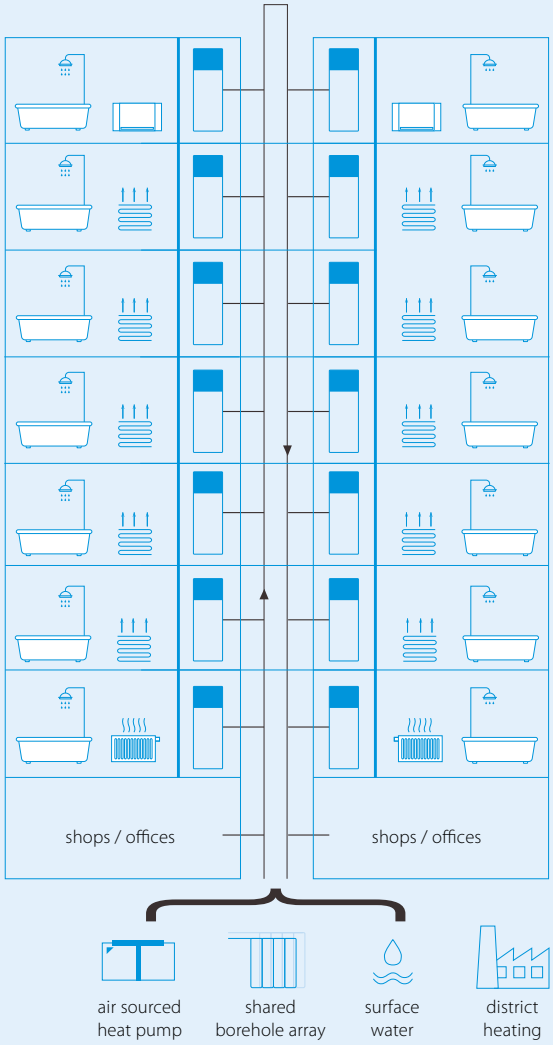


Collective solutions

Check out our collective solutions on:

https://collectivehousing.daikin.eu/en-GB/high-rise

Decentralised solutions

In a decentralised set-up, each apartment of the building is equipped with an individual heat pump. The end customer has total control over it's system and consumption.
The outdoor unit is often installed on the balcony, or on the roof.

☑ A large choice of Daikin solutions

Thanks to a wide range of heat pumps, Daikin is able to provide multiple solutions decentralised applications in apartments buildings.

In each apartment, an individual product is installed: air-to-water split heat pump, a hybrid heat pump…

It allows the end-user to totally control its energy consumption and answers its needs in the most efficient way, whether it is for space heating, cooling or domestic hot water.

Inside the apartment:
In decentralised solutions, only an indoor unit can be found inside the apartment. Usually installed in a technical or utility room, it takes as much as space as other household appliances such as a washing machine.

Outside the apartment:
The heat pump outdoor unit can be installed in different locations in order to save as much space as possible.

For example, on a balcony:

Or on the roof:

Centralised solutions

Centralised applications integrate a central source of energy for heating and hot water. Cascade solution is a type of centralised system in which one outdoor unit supplies energy to multiple apartments. Each apartment still includes an indoor unit as control center.

☑ Another purpose for Daikin high capacity heat pumps

In a cascade solution, one larger capacity outdoor unit provides energy to multiple apartments. This larger outdoor unit ranges from 11 to 18 kW class, compared to individual heat pumps up to 8 kW. Each outdoor unit is connected to the other in order to form a central source of energy that it suitable for a total of up to 50 kW. Specific rules apply for the installation of such a system.

Applicable units
Daikin Altherma 3 H HT + wall mounted indoor unit
Daikin Altherma 3 R + wall mounted indoor unit
Daikin Altherma 3 M monobloc

Hydrosplit connection
With Daikin Altherma 3 H HT, you only get water connections to install the outdoor and the indoor units.

The unit is available in class 14, 16 and 18 kW and delivers a LWT up to 70°C, fitting with radiators.

Refrigerant connection
Daikin Altherma 3 R refrigerant split unit is available in class 11, 14 and 16 and delivers a LWT under 60°C.

The possibility to run low LWT allows for further energy saving by using underfloor heating or heat pump convectors as heating or cooling emitters.

Monobloc
Daikin Altherma 3 M also runs low LWT under 60°C. The monobloc has the extra advantage to save space inside: indeed no indoor unit is necessary if the domestic hot water tank is installed in the communal space.

Cascade controller
Daikin provides a universal centralised controller for cascade EKKCC9-W to be used in combination with the gateway DCOM-LT/IO.

The DCOM gateway is an interface for the BMS integration. It offers:
- Modbus communication including the compatibility with EKCC9-W for sequencing applications
- Voltage control
- Modbus control

Water loop solution
Daikin Altherma 3 WS

Daikin Altherma 3 WS for Collective Housing provides an innovative approach to reducing the carbon footprint of apartment buildings. Individual heat pumps deliver economical heating, hot water and optional cooling for each apartment connected via a central water loop. So use of renewable energy is optimised and heat losses in distribution are minimised, improving
the environmental performance of the apartment building.

The number of people living in urban areas is continuously increasing in the recent years. Multi-family dwellings in Europe are a good portion of the European building stock. Especially if we consider that, in 2018, 46.0 % of the EU-27 population lived in flats. (*) Therefore, apartment buildings are among the most relevant contributors to the energy consumption and CO_2 emissions of the EU building sector.

As a consequence, the higher demand for living space makes the collective building sector grow in the future cities. Building sector plays a significant role for the energy consumption as it represents 40% of energy used in the EU.
New European Directives are driving the efficiency of modern buildings in order to reach future goals. In this perspective, heat pumps play a key role to achieve these goals not only in single dwellings but also in multi-family apartment buildings.

Daikin, the innovation leader for more than 90 years, takes the challenge in multi-family apartment building to apply full renewable solutions based on in-house heat pump technology. From low to high-rise apartment buildings, from individual to centralised heating systems, from retrofit to new built Daikin has the units, the experience and the solution for you.

(*) https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Living_conditions_in_Europe_-_housing_quality

Efficiency and environmental performance all in one

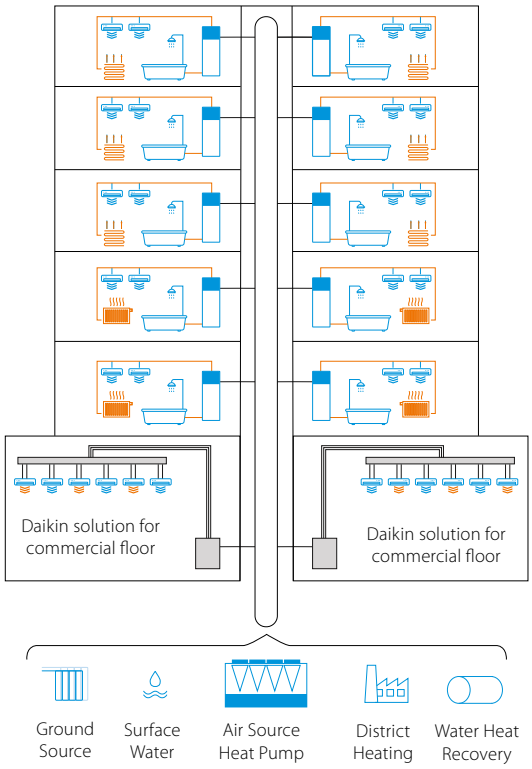
Individual heat pumps connected to a central loop

This innovative system consists of a network of heat pumps connected to a common central water loop. In each apartment is a Daikin Altherma 3 WS unit - a high-efficiency water-to-water heat pump with integrated domestic hot water (DHW) tank.

The heat pump in each apartment works independently, but is connected to a common central water loop to form a communal system. The central water loop must be maintained between +10°C and below +30°C. Thanks to this wide temperature range, the central water loop can be warmed/or cooled via several different means:

- Ground or air source heat pump
- Shared ground array, borehole or thermal piles
- Surface water source such as a river, canal or seawater
- District heat network
- Waste heat recovery

This offers the designer full flexibility to select the most appropriate form of renewable energy available to the site: ground, water or air



Low ambient temperatures for minimal heat loss

This highly efficient heat pump network can provide economical heating, hot water and optional cooling for an entire apartment building at relatively low ambient water temperatures.

Compared with the high distribution losses that occur in typical communal heating systems - which lead to overheated buildings and wasted energy - the low ambient loop means that heat losses are reduced by more than 90%. Hence it is a much more economical solution, that reduces the carbon footprint of the entire building.

Key system advantages:

- Utilises renewable (or recovered) energy
- Low carbon heat pump solution delivers significant CO_2 reductions over traditional systems
- Low carbon solution helps reduce carbon offset payments
- Energy centre not required, saving valuable space
- Heating, hot water & cooling via a 2 pipe network offers capital savings over a traditional 4 pipe solution
- Intuitive user controls and internet connectivity as standard
- In-apartment heat pump has integrated back up heater, so heating & hot water is maintained in any eventuality.
- Simplified connection with water loop thanks to the embedded pressure independent control, for automatic flow from the heat pump
- Pressure rating of 16 bar (water loop side) to simplify installation in high-rise buildings: no need of pressure brakers up to 20 floors

Designed to suit modern living

Optimised for comfort

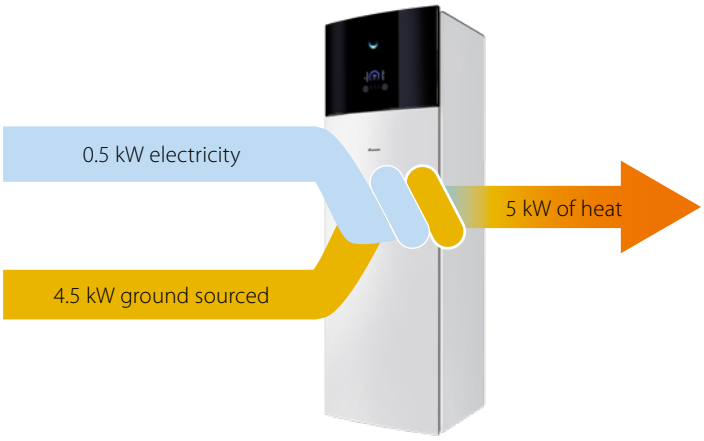
With a leaving water temperature up to 65°C and high efficiencies, the Daikin Altherma 3 WS is designed to ensure the lowest running costs and highest comfort levels for each apartment.

Versatility by design

Daikin Altherma 3 WS is highly versatile and works with various heat emitters, such as radiators, underfloor heating, heat pump convectors or fan coil units for maximum design flexibility.

All in one integrated model

The floor standing indoor unit with integrated DHW tank has a minimal footprint, utilising as little floorspace as possible.



Delivering decarbonisation

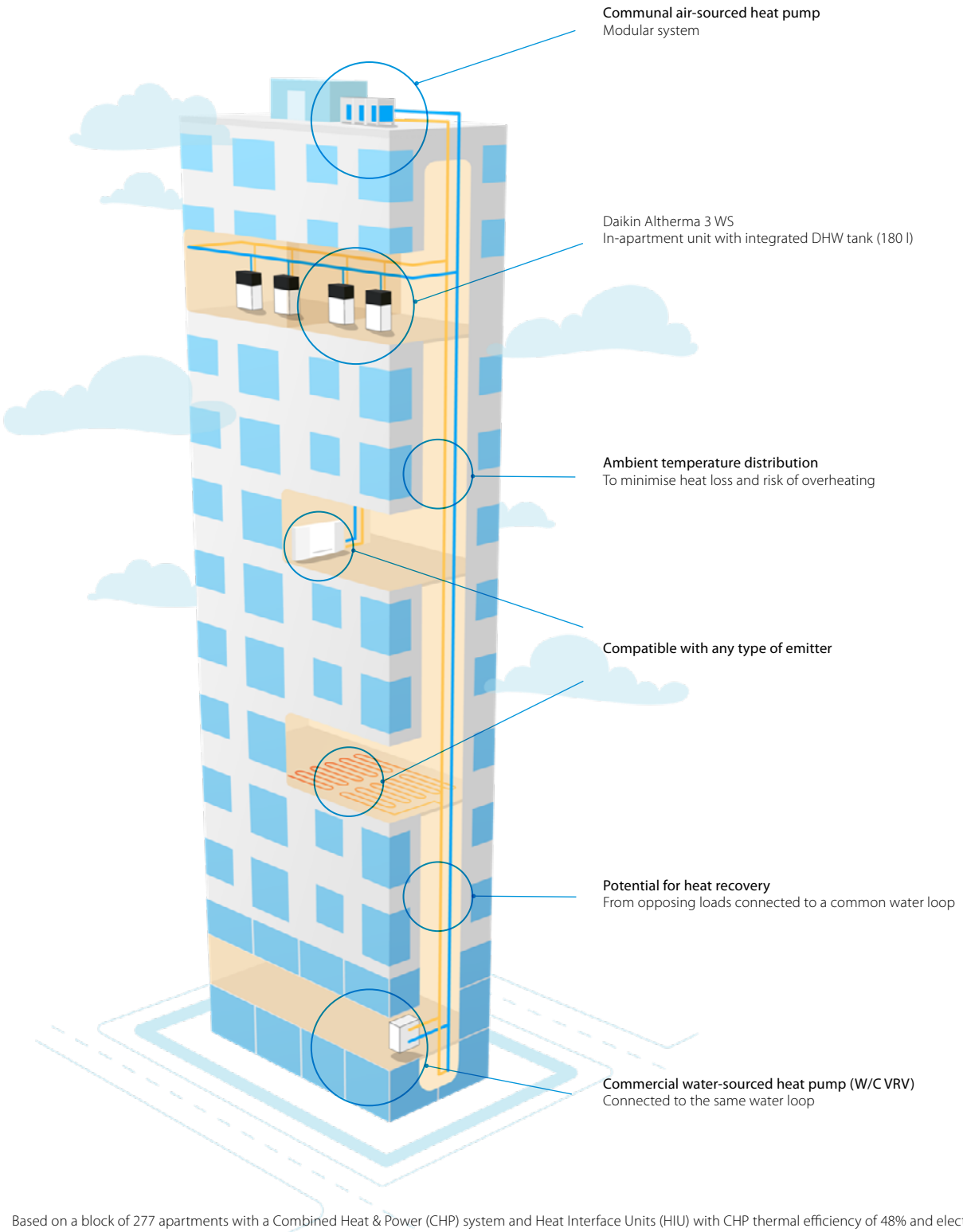
Compared with a typical Combined Heat & Power (CHP) and boiler system often used in apartments, the Daikin Altherma 3 WS system delivers a reduction in carbon emissions of 143 tonnes.1

Reduction in capital costs

With a low temperature water loop connected to a heat pump chiller on the roof or in the plant rooms, plus a Daikin Altherma 3 WS unit in each apartment linked to Daikin heat pump convectors or fan coil units, the total system will deliver lower carbon emissions compared with a typical heating system. This could reduce a developer's carbon offset payments, so delivering a low carbon heating and cooling system makes both excellent environmental and economic sense.

BLUEVOLUTION

Heat pump technology reduces carbon emissions compared with any traditional fossil fuel heating system. But the Daikin Altherma 3 WS goes further to reduce the Global Warming Potential (GWP) of system, as it features Daikin's Bluevolution technology which uses R-32 refrigerant. R-32 has a lower GWP than other refrigerants typically used in heat pump systems - and less refrigerant is required too - so it's more environmentally friendly overall.

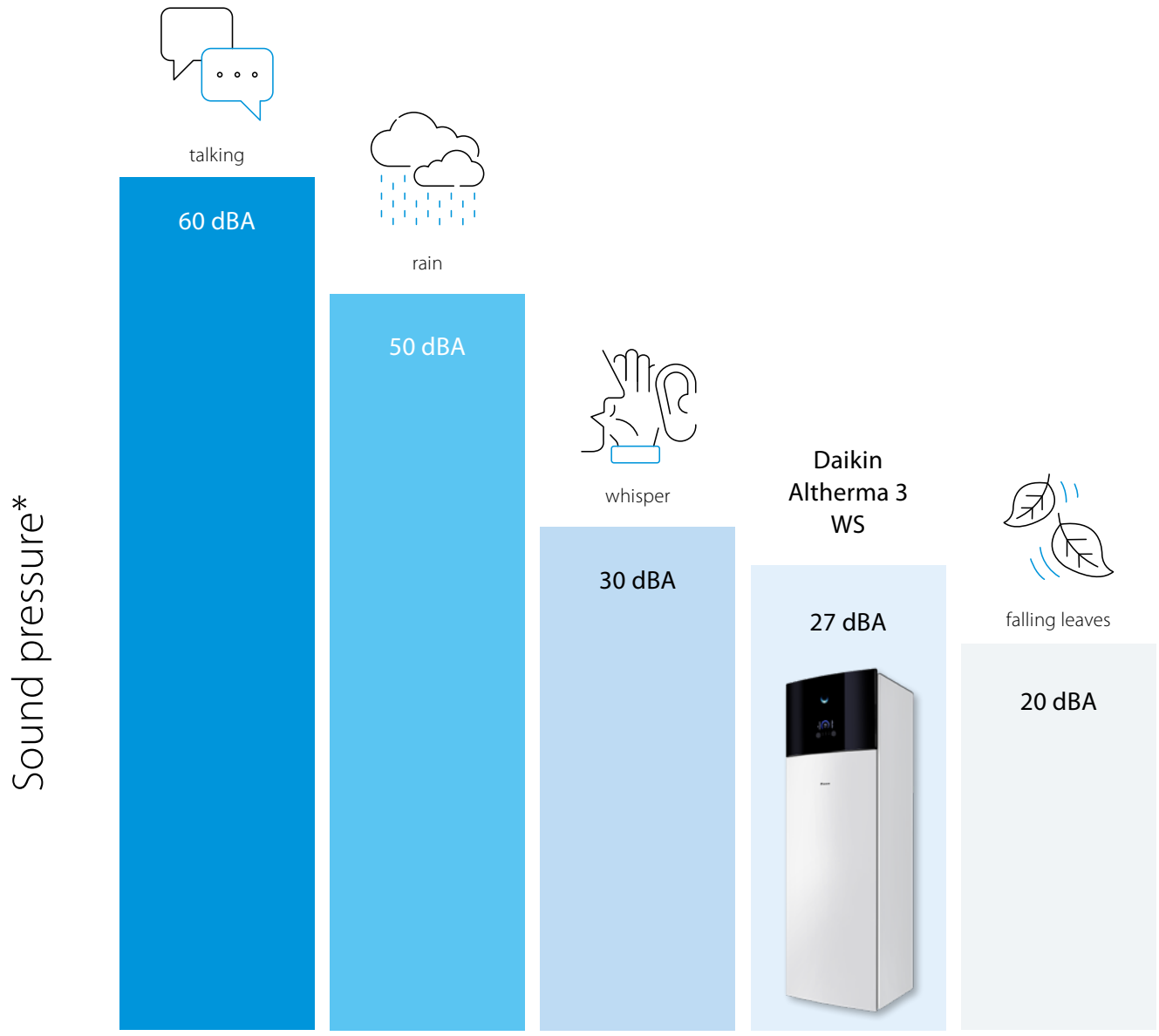


1 Based on a block of 277 apartments with a Combined Heat & Power (CHP) system and Heat Interface Units (HIU) with CHP thermal efficiency of 48% and electrical efficiency of 32%, 60% CHP / 40% boiler, compared with a Heat Pump with a SCOP of 3.7 based on SAP2012

Caring for customers' peace of mind

Daikin Altherma 3 WS promises almost silent operation, thanks to a specially designed swing compressor module, which limits vibrations and is sound insulated, to minimise noise levels.

Exceptionally quiet operation



*at 1 meter.

Daikin offers a range of control options, so residents can enjoy full control of their heating system, anywhere, at any time.

Smart control

Daikin' smart control offers the end user full control of the heating and hot water system, as well as saving money on energy bills, thanks to Daikin's modulating room control logic.

Madoka for heating

Increase end user energy savings even further, with the elegant Madoka controller. Madoka ensures a more stable room temperature, by adjusting the water temperatures depending on room temperature requirement, as well as reducing on/off cycling times.

- ☑ Sleek and elegant design
- ☑ Match any interior scheme
- ☑ Easy to use with intuitive controls

BRC1HHDAW7

BRC1HHDAS7

BRC1HHDAK7

Onecta app

The Onecta app is a smart phone app that allows end users to monitor and control their heating system, whenever and wherever they wish.

- Monitor the status of your heating system
- Control the operation mode and set temperature
- Schedule the set temperature and operation mode

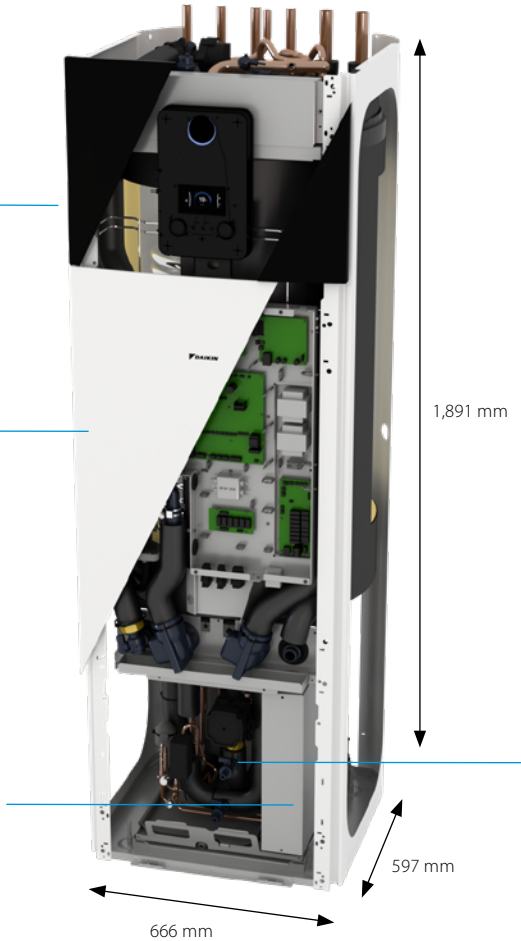
Quick and easy installation

Each apartment unit consists of a sealed R-32 low GWP heat pump, a highly insulated, integrated DHW tank and an electrical back up heater, so no F-gas qualifications are required to install and service the unit. Installation and servicing are quick and easy too, thanks to a small footprint, factory-fitted piping on top of the unit, and a swappable hydro module.

All pipe connections on top, paired in and out

Standard electrical connections pre-cabled

Removable compressor module reduces the overall weight by 70 kg



Intuitive
user interface

The Daikin Eye
The intuitive Daikin Eye shows in real time the status of the system.

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

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

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

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

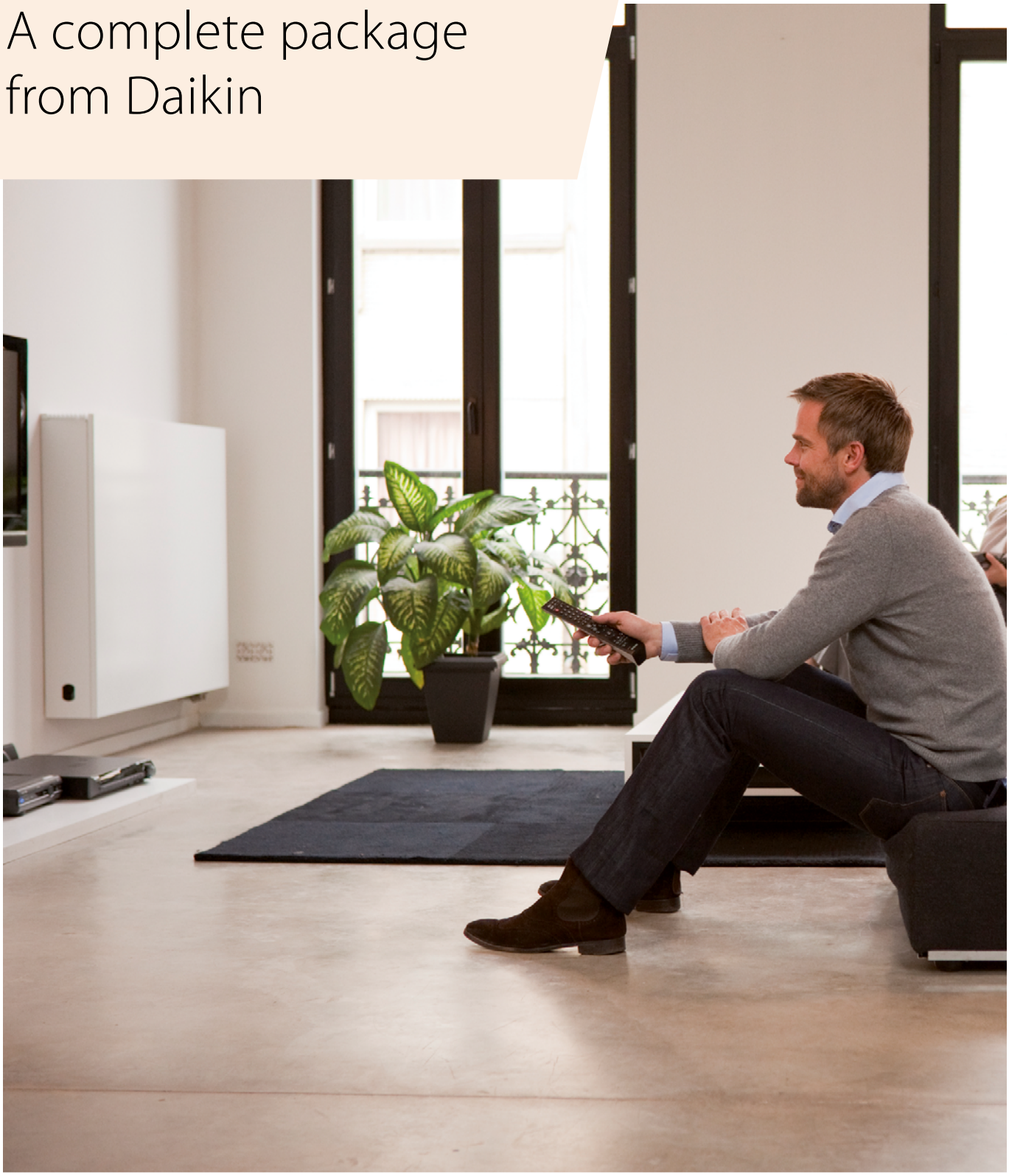
Red
When the Daikin Eye indicates a red colour, it means the boiler is out of commission and requires a maintenance check.

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

16 bar pressure rating of all hydraulic components on water loop side, to best fit high-rise buildings

Factory fitted pressure independent control valve for flow regulation from the common water loop (design flow: 9.6 L/min)

A complete package from Daikin



The beauty of the Daikin Altherma 3 WS system is that each in-apartment heat pump can connect to a wide variety of heat emitters and controls, all of which can be provided as a complete package by Daikin. This ensures seamless integration and consistency of the heating solution within each apartment.

Similarly, the communal water loop can be powered by range of different heat pump solutions. And once again, Daikin can offer a wide range of water source heat pumps, 2 and 4 pipe air source heat pumps, in an even wider range of configurations, to provide the central energy source for the collective heating system.

So for a highly efficient system that reduces the carbon footprint and offset payments of your apartment building, Daikin has the total solution.

EWSAH-D9W EWSAX-D9W

Indoor Unit				EWSA	H06D9W	X06D9W
B0/W35	Heating capacity	Nom.	kW		6.44	
	Power input	Max.	kW		1.67	
	COP				3.85	
W10/W35	Heating capacity	Nom.	kW		6.13	
	Power input	Nom.	kW		1.15	
	COP				5.33	
W10/W55	Heating capacity	Nom.	kW		5.61	
	Power input	Nom.	kW		1.72	
	COP				3.27	
W20/W35	Heating capacity	Nom.	kW		6.17	
	Power input	Nom.	kW		0.82	
	COP				7.49	
W20/W55	Heating capacity	Nom.	kW		6.30	
	Power input	Nom.	kW		1.48	
	COP				4.26	
W25/W35	Heating capacity	Nom.	kW		5.80	
	Power input	Nom.	kW		0.6	
	COP				9.62	
W25/W55	Heating capacity	Nom.	kW		6.36	
	Power input	Nom.	kW		1.35	
	COP				4.71	
Space heating according to EN14825 and EN14511:2018	Average climate Water in 10°C Water out 55°C	ηs (Seasonal space heating efficiency)	%		158	162
		Efficiency class			A+	
		sCOP			4.15	4.24
	Average climate Water in 10°C Water out 35°C	ηs (Seasonal space heating efficiency)	%		253	260
		Efficiency class			A+++	
		sCOP			6.51	6.70
Space heating according to real application conditions	Average climate water in 20°C water out 35 °C (fixed)	Average space heating efficiency	%		360.4	
		Average COP			9.21	
Space cooling W30/W7	Cooling capacity	Nom.	kW		-	5.81
	Power input	Nom.	kW		-	1.38
	EER				-	4.21
Space cooling W30/W18	Cooling capacity	Nom.	kW		-	6.11
	Power input	Nom.	kW		-	1.21
	EER				-	5.07
Domestic hot water	General	Declared load profile			L	
	Average climate	ηwh	%		115	
		Efficiency class			A	
Casing	Colour				White + Black	
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	mm		1,891x597x666	
Weight	Unit		kg		222	
Hot water tank	Material				Stainless steel (EN 14521)	
	Water volume		l		180	
	Insulation	Heat loss	kWh/24h		1.2	
	Corrosion protection				Pickling	
Operation range	Installation space	Min. ~ Max.	°C		5/35	
	Water inlet	Min. ~ Max.	°C		-10/+30	
	Heating	Water side Min. ~ Max.	°C		5/65	
	Domestic hot water	Water side Min. ~ Max.	°C		25/60	
Refrigerant	Type				R-32	
	GWP				675	
	Charge		kg		1.70	
	Charge		TCO2Eq		1.15	
Water loop side	Pressure rating		bar		16	
Design flow rate	Independent control valve		l/min		9.6	
Sound power level	Nom.		dBA		39.0	
Sound pressure level at 1 meter	Nom.		dBA		27.0	
Power supply	Name/Phase/Frequency/Voltage		Hz/V		3 ~/50/400 or 1 ~/50/230	
Current	Recommended fuses		A		3P 16A or 1P 32A	

This product contains fluorinated greenhouse gases.

Accessories

Type	Description	Product name	Note
Controller	Madoka wired room thermostat	BRC1HHDK/S/W	
	Wireless room thermostat	EKRTR1	
	Wired digital thermostat	EKRTWA	
	LAN Adapter	BRP069A61	Equivalent of BRP069A61 built-in.
	Daikin Altherma Modbus Gateway	DCOM-LT/MB-IO	
Sensors	Remote indoor sensor	KRCS01-1	
	External sensor for EKRTRB	EKRTETS	Can only be used in combination with the wireless room thermostat EKRTRB
	Current sensor	EKCSENS	
Heat pump convector	Floor standing / wall mounted / concealed	FWXV/T/M*	Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT - H/O)
Other options	Digital I/O PCB	EKRP1HBAA	Additional relays to allow bivalent control in combination with external room thermostat are field supply.
	Demand PCB	EKRP1AHTA	
	Power cable for back-up heater	EKGSPOWCAB	
	Fernox magnetic filter 1"	K.FERNOXTF1	
	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)	K.FERNOXTF1FL	
	G3 kit 8 liter	EKUHWG3DS	For UK, mandatory combination. Recommended option.
	G3 kit 18 liter	EKUHWG3D	For UK, mandatory combination. Alternative to EKUHWG3DS.

Daikin Eco-system

Daikin is a one-stop-shop for heating by providing all equipments from the heat generators to the peripherals.

Domestic hot water tanks and thermal stores with solar panels are official combinations in our energy label website.

Heating systems are never complete without emitters, that's why Daikin provides all the underfloor heating accessories as well as heat pump convectors. The floor standing convector can optionally be equipped with an indoor air quality feature, allowing fresh air to enter the room when the CO_2 level is too high, thanks to a ventilation system.

Recently, Daikin partnered up with Duco to add a range of residential ventilation units (CHRV) that synergize with the convector range.

Since indoor air quality is a key topic for Daikin, the air purifier range was also extended to provide end-users with best air possible.

Wired room thermostats

P. 287

Onecta app

P. 294

herals

Heat pump convectors and underfloor heating

P. 304

Tanks

Thermal stores and tanks

Hot water heating installation solutions

Why choose a Daikin Altherma ST Thermal store or domestic hot water tank?

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

Thermal store

Stainless steel tank

☑ Domestic hot water tanks

Stainless steel tanks

Comfort

- EKHWS(P)(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel

Efficiency

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

Reliability

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

☑ The ECH$_2$O thermal store range

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

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

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

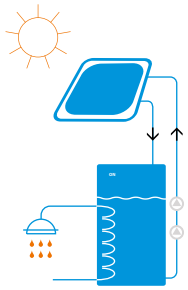
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

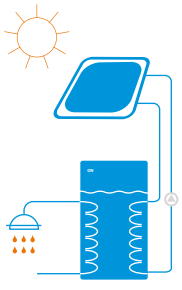
- Fit for the future: maximise renewable energy sources
- Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- High-quality insulation keeps heat loss to a minimum

Reliability

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



Drain-back solar system



Pressurised solar system

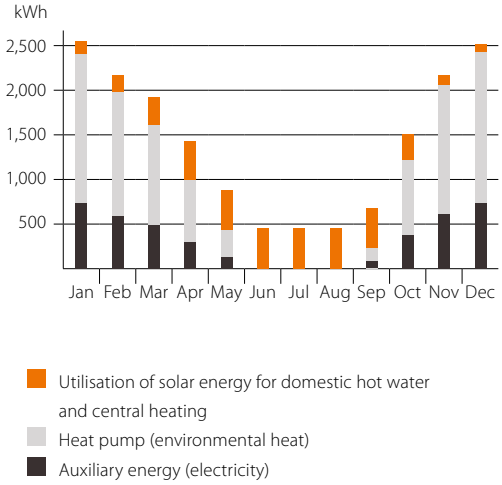
Pressureless (drain-back) solar system

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

Pressurised solar system

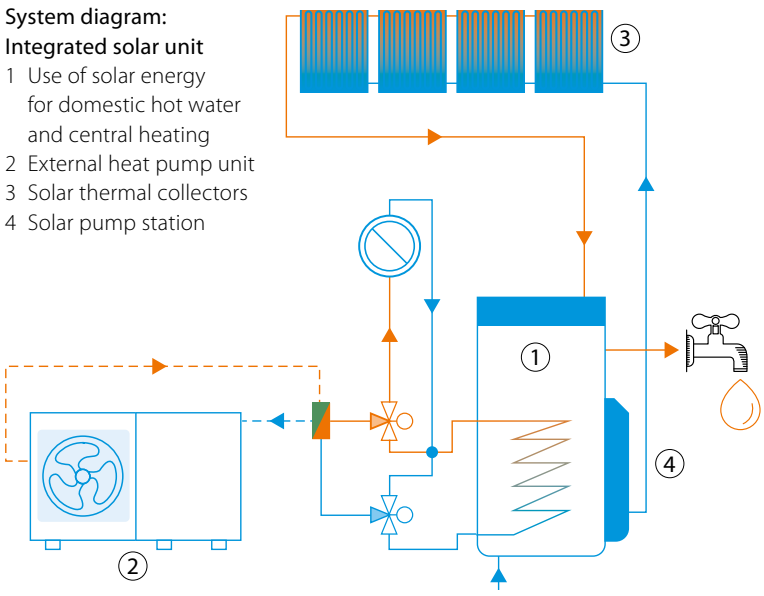
- System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- System is pressurised and sealed

Monthly energy consumption of an average detached house



System diagram:
Integrated solar unit

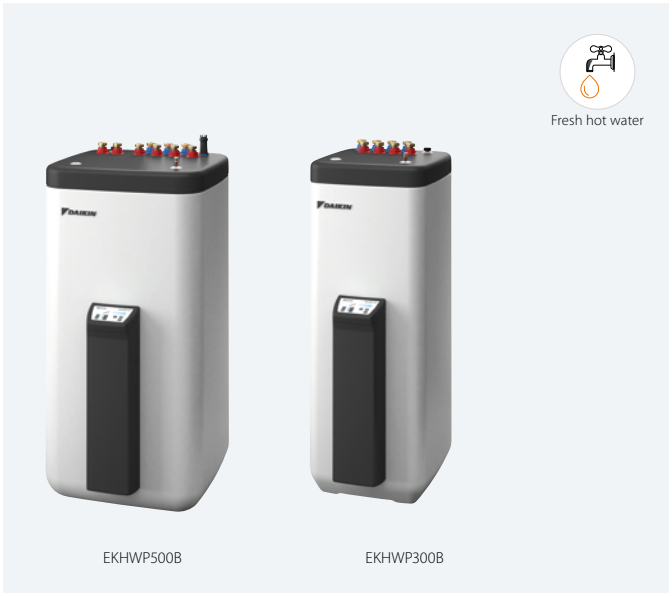
1 Use of solar energy for domestic hot water and central heating
2 External heat pump unit
3 Solar thermal collectors
4 Solar pump station



Thermal store

Plastic domestic **hot water tank with solar support**

- Tank designed for connection with pressurised thermal solar system
- Tank designed for connection with drainback thermal solar system
- Available in 300 and 500 liters
- Large hot water storage tank to provide domestic hot water at any time
- Heat loss is reduced to a minimum thanks to the high quality insulation
- Space heating support possible (500 L tank only)



EKHWP500B EKHWP300B

85 °C

EKHWP-B EKHWP-PB

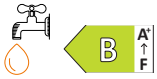
Accessory				EKHWP	300B	500B	300PB	500PB	54419B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	Width	mm		595	790	595	790	
		Depth	mm		615	790	615	790	
		Height	mm		1,646	1,658	1,646	1,658	
Weight	Unit	Empty	kg		53	76	56	82	71
Tank	Water volume		L		294	477	294	477	
	Material				Polypropylene				
	Maximum water temperature		°C		85				
	Insulation	Heat loss	kWh/24h		1.50	1.70	1.50	1.70	
	Energy efficiency class				B				
	Standing heat loss		W		64	72	64	72	
	Storage volume		L		290	393	290	393	
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (DIN 1.4404)				
		Face area	m^2		5.60	5.80	5.60	5.90	5.80
		Internal coil volume	L		27.80	28.90	27.80	29	28.90
		Operating pressure	bar		10				
	Charging	Quantity			1				
		Tube material			Stainless steel (DIN 1.4404)				
		Face area	m^2		2.66	3.70	2.66	3.70	1.95
		Internal coil volume	L		12.90	18.10	12.90	18.10	10
		Operating pressure	bar		6				3
	Auxiliary solar heating	Tube material			-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)	
		Face area	m^2		-	0.76	-	0.76	
		Internal coil volume	L		-	3.90	-	3.90	
		Operating pressure	bar		-	3	-	3	

Domestic hot water tank

Stainless steel domestic hot water tank

- EKHWS(P)(U)-D: available in 150, 180, 200, 250 and 300 litres
- Stainless steel domestic hot water tank

EKHWS(P)(U)-D



85 °C

EKHWSU-D3V3 EKHWSP-D3V3 EKHWS-D3V3

Accessory				EKHWS(P)(U)	150D3V3	180D3V3	200D3V3	250D3V3	300D3V3
Casing	Colour				Neutral white				
	Material				Epoxy coated steel / Epoxy-coated mild steel				
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745
Weight	Unit	Empty		kg	45	50	53	58	63
Tank	Water volume			L	145	174	192	242	292
	Material				Stainless steel (EN 1.4521)				
	Maximum water temperature			°C	75				
	Insulation	Heat loss		kWh/24h	1.10	1.20	1.30	1.40	1.60
	Energy efficiency class				B				
	Standing heat loss			W	45	50	55	60	68
	Storage volume			L	145	174	192	242	292
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (EN 1.4521)				
		Face area		m^2	1,050	1,400	1,800		
		Internal coil volume		L	4.90	6.50	8.20		
		Operating pressure		bar	10				
Booster heater	Capacity			kW	3				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230				


DAIKIN
21 °C

Controllers

Controls

With Daikin controllers, you're in full control of your Daikin heat pump. The wired controller range features easy-to-use thermostats to control the temperature of different rooms. The intuitive Daikin apps offer even more features to help schedule and manage the energy consumption of your units.

Onecta App
Requires WLAN Module (BRP069A71), WLAN cartridge (BRP069A78) or LAN Adapters (BRP069A61/2)

Wired remote controller
Madoka

Combination table

			BRC1HHDAW7/S7/K7
Daikin Altherma 3 H HT (F/W)	14-16-18 kW	EPRA14-18D7 + ETV/B*-E7	•
Daikin Altherma 3 H HT ECH$_2$O	14-16-18 kW	EPRA14-18E + ETS*-E7	•
Daikin Altherma 3 H MT (F/W)	8-10-12 kW	EPRA08-12E + ETV/B*-E	•
Daikin Altherma 3 H MT (ECH$_2$O)	8-10-12 kW	EPRA08-12E + ETS*-E	•
Daikin Altherma 3 R (F/W)	4-6-8kW	ERGA-E* + EHV/B*-E	•
Daikin Altherma 3 R ECH$_2$O	4-6-8kW	ERGA-E* + EHS*-E	•
Daikin Altherma 3 R (F/W)	11-14-16 kW	ERLA-D* + EBV/B*-D	•
Daikin Altherma 3 R ECH$_2$O	11-14-16 kW	ERLA-D* + EBS*-D	•
Daikin Altherma R HT	11-14-16 kW	EKHBRD-ADV/Y17 + ER(R/S)Q-AV/Y1	
Daikin Altherma 3 M	4-6-8-9-11-14-16 kW	E(B/D)LA-E/D*	•
Daikin Altherma R Hybrid	5-8 kW	EVLQ-CV3	
Daikin Altherma H Hybrid	4 kW	EJHA-AV3	
Daikin Altherma 3 GEO	6-10 kW	EGSA(H/X)-D9W	•
Daikin Altherma 3 C Gas W	12-35 kW	D2CND-A1A/A4A	

User-friendly wired remote controller with premium design

Madoka. The beauty of simplicity

Madoka

Black
RAL 9005 (matt)
BRC1HHDAK7

White
RAL9003 (glossy)
BRC1HHDAW7

Silver
RAL 9006 (metallic)
BRC1HHDAS7

Madoka combines refinement and simplicity

- Sleek and elegant design
- Intuitive touch-button control
- Three colours to match any interior
- Compact: measures only 85 x 85 mm

Easy update via Bluetooth

It is strongly recommended to make sure that the user interface is up to date. To update the software or check if updates are available, all you need is a mobile device and the Madoka Assistant app. The app is available on Google Play and in the App Store.

Available on the App Store

GET IT ON Google Play

Award-winning design

Madoka received an IF Design Award and Reddot Product Design Award for its innovative design. These awards represent two of the most prestigious and largest design competitions in the world.

reddot award 2018
winner

DESIGN AWARD 2018

Daikin Home Controls

Wireless room by room control

For Daikin Altherma 3 heat pumps

A new generation of user interfaces: redesigned and intuitive

Intuitive control with a premium design
The smooth curves of the Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large, easy-to-read numbers, the controller features are accessed through three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

Three colours to match any interior design
Whatever your interior design, Madoka will fit in. Silver will stand out in any home decor, while Black is a perfect match for darker, stylish interiors. White offers a sleek, modern look.

Easily set operation parameters
Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.

Personalize your heating schedule

Create your own climate with Home Controls that can be ajdusted to your lifestyle.

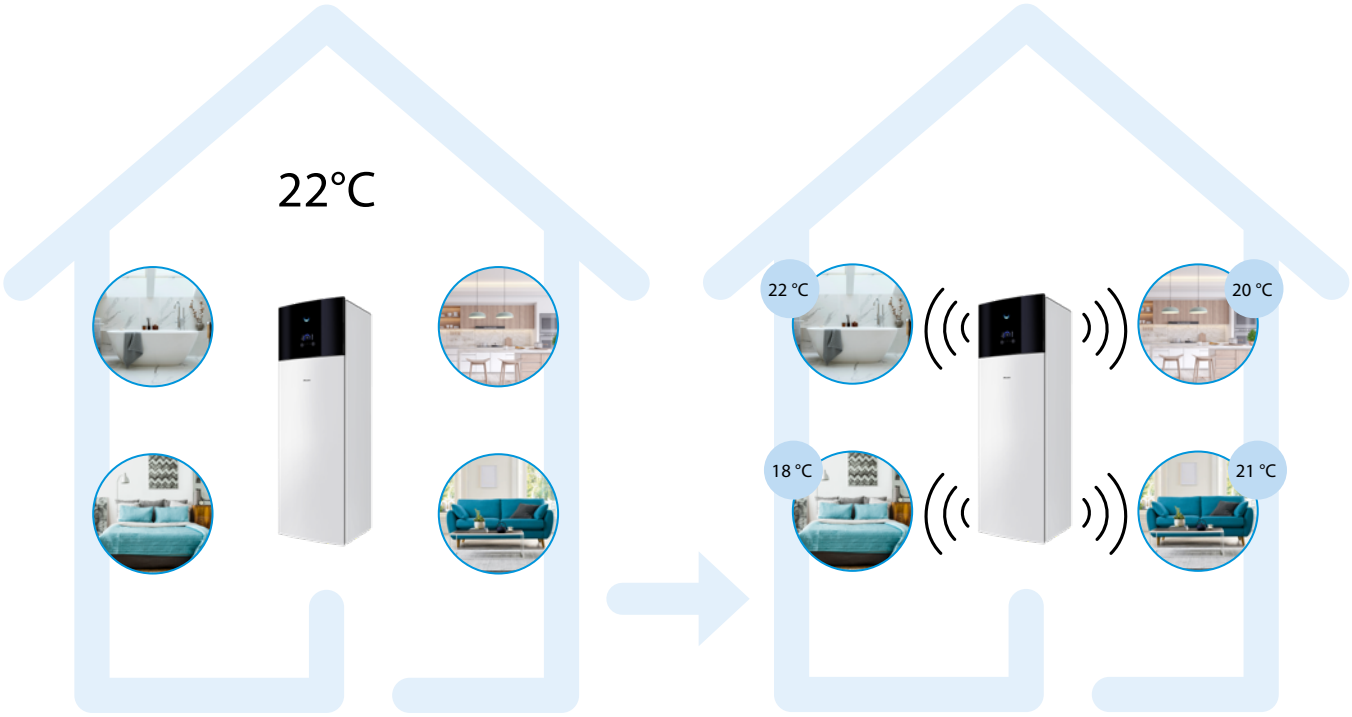
- Combine up to 80 Daikin Home Controls accessories in as many as 25 rooms on the Daikin Altherma. All accessories added to the same room will be automatically grouped together and follow the same schedule.
- Change the device name and room name anytime you want.
- Create schedules for heating (in rooms with radiators or underfloor heating) and cooling (in rooms with underfloor cooling).
- Use boost function to heat up rooms quickly.
- Invite other members of your household to control their comfort with the Onecta app.

				BRC1HHDW/S/K
Casing	Colour			Black/White/Silver
	Operation LED	Colour		Blue status indicator
Dimensions	Unit	Height	mm	85
		Width	mm	85
		Depth	mm	25
	Packed unit	Height	mm	50
		Width	mm	217
		Depth	mm	161
Weight	Unit		kg	0.11
	Packed unit		kg	0.317
Packing	Material			Cardboard
	Weight		kg	0.085
LCD	Type			100x150 dots
	Dimensions	Height	mm	40.70
		Width	mm	28
	Back light	Colour		White
Ambient temperature	Operation	Min.	°C	-10
		Max.	°C	50
	Storage	Min.	°C	-20
		Max.	°C	70
	Relative humidity		%	95
Backup for power failure				Yes (the clock wil keep functioning for period not exceeding 48 hours)
Control systems	Class of temperature control			VI
	Contribution to seasonal space heating efficiency		%	4
Wiring connections	Type of wires			Sheathed vinyl cord or cable
	Size		mm^2	0.75 - 1.25
	For connection with indoor	Quantity		2
		Remark		P1-P2 wired connection from indoor unit
	Wiring length	Max.	m	500


21.0

Individual wireless room controllers

Our individual wireless room controllers allow for a total flexibility in heating your home.



☑ Personalize your heating schedule

A traditional heating system allows you to control the temperature in only one room. With Daikin Home Controls you can choose the perfect temperature for each area separately.

☑ Wireless control for a better flexibility

Get rid of cables and have control from anywhere you are, thanks to the Onecta app.

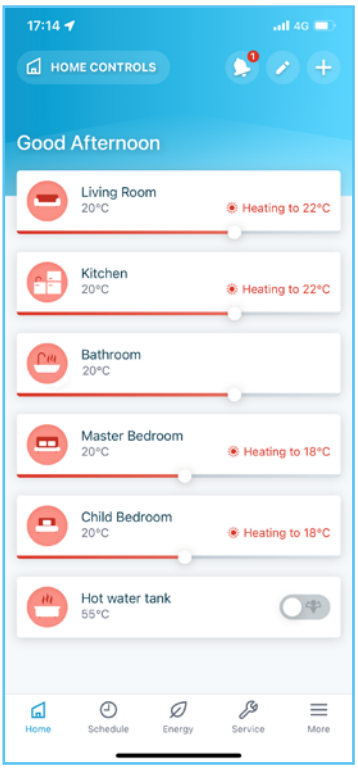
Our wireless range of controllers makes your life easier. As soon as they are installed, you can program or control each room temperature from the intuitive app.

Always in control

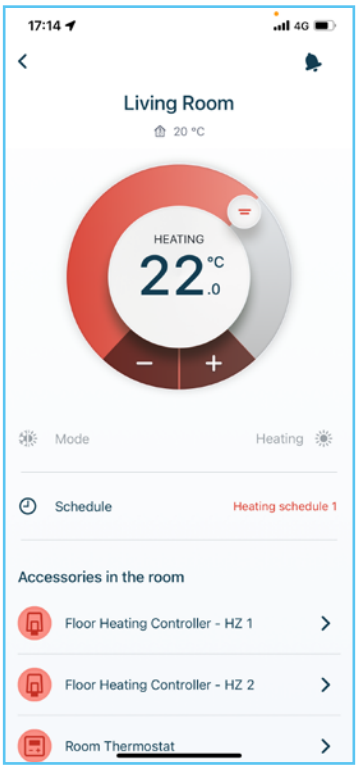
onecta

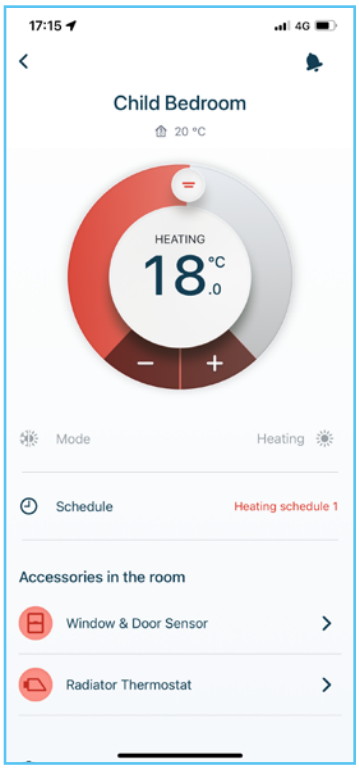
Jump into a fully connected system!

With Onecta app, you have an overview of all rooms temperatures. You can manage them individually, at home or remotely.



Room overview





Individual room overview

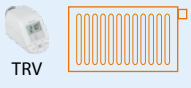
Portfolio overview

The access point connects all Daikin Home Controls accessories with the cloud

Access point
EKRACPUR1PA (EU)
EKRACPUR1PU (UK)

TRV

- The radiator thermostats open or close the radiator valves of each room to control its heating demand
- Easy to mount without having to drain any water (suitable for radiators with a thread size of M30 x 1.5)



TRV

EKRRVATR2BA (EU)
EKRRVATU1BA (UK)

The multi (for reversable systems) or basic (for heating only systems) IO box connects your Daikin Home Controls eco system to the Daikin Altherma.

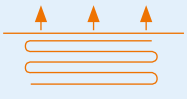
IO Box
EKRSIBDI1V3(H/O)
EKRMIBEV1V3

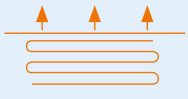
Floor heating controller
EKRUFHT61V3

Actuators per zone
EKWCVATR1V3

Measure and control the room temperature in combination with radiator thermostats or the floor heating controller

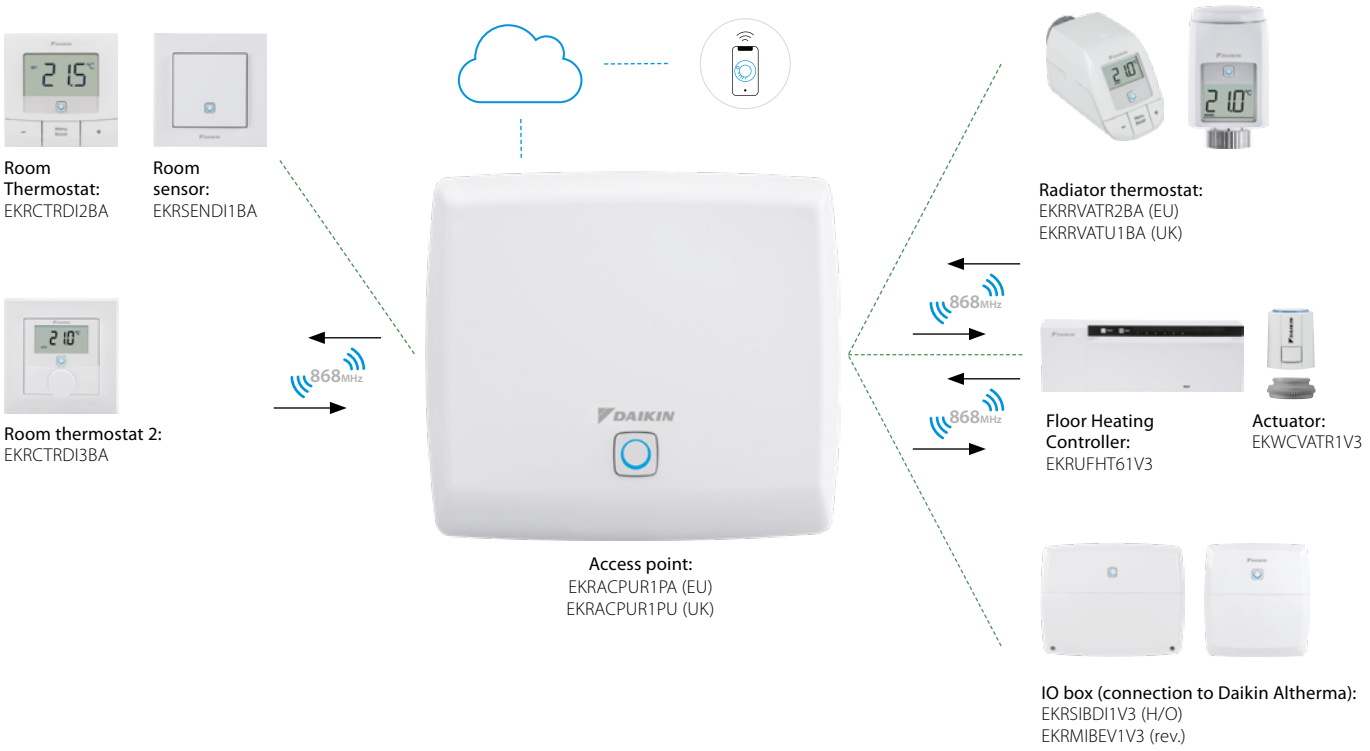
Room thermostat or sensor
EKRCTRDI2BA
EKRCTRDI3BA
EKRSENDI1BA





The floor heating controllers in combination with the actuators enables room by room control for rooms heated and/or cooled by underfloor heating.

Portfolio overview



Combination table

	Outdoor unit		Indoor unit	
Air-to-water heat pump	Daikin Altherma 4 H 06-08-10-12-14 kW	EPSK-A	Floor standing	EPVX/Z
			ECH_2O	EPSX(B)
			Wall mounted	EPBX
	Daikin Altherma 3 H MT 08-10-12 kW	EPRA-EV3/W1	Floor standing	ETVH/X/Z16-E7
			ECH_2O	ETSH(B)/X(B)16-E7
			Wall mounted	ETBH/X16-E7
	Daikin Altherma 3 H HT 14-16-18 kW	EPRA-DV3/W1(7)	Floor standing	ETVH/X/Z12-E
			ECH_2O	ETSH(B)/X(B)12-P-E
			Wall mounted	ETBH/X12-E
	Daikin Altherma 3 R 04-06-08 kW	ERGA-EV(7)(H)(A)	Floor standing	EHVH/X/Z-E
			ECH_2O	EHSH/X(B)-E
			Wall mounted	EHBH/X-E
	Daikin Altherma 3 R 11-14-16 kW	ERLA-DV3/W1	Floor standing	EBVH/X/Z-D
			ECH_2O	EBSH(B)/X(B)-D
			Wall mounted	EBBH/EBBX-D
	Daikin Altherma 3 R MT 08-10-12 kW	ERRA-EV3/W1	Floor standing	ELVH/X/Z-E
			ECH_2O	ELSH(B)/X(B)-E
			Wall mounted	ELBH/X-E
	Daikin Altherma 3 M	EBLA-D		
	09-11-14-16 kW	EDLA-D		
	Daikin Altherma 3 M	EBLA-E		
	04-06-08 kW	EDLA-E		
	Daikin Altherma 3 R	ERLA03DV	Floor standing	EHFH/Z03-S18D3V
Hybrid heat pump	Daikin Altherma R Hybrid	EVLQ-CV3	Wall mounted	EHYHBH-AV32
				EHYKOMB33AA2/3
	Daikin Altherma H Hybrid	EJHA-AV3	Boiler	EHY2KOMB28/32A A
Ground and water source heat pump	Daikin Altherma 3 GEO			EGSAH/X-(U)E9W
				EGSAH/X-(U)D9W
	Daikin Altherma 3 WS			EWSAH/X-(U)E3V
				EWSAH/X-(U)D9W

Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their Daikin system from their smartphone.

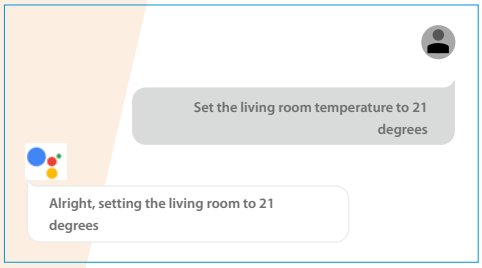
onecta

Voice control

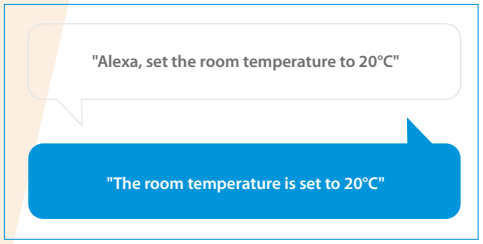
To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

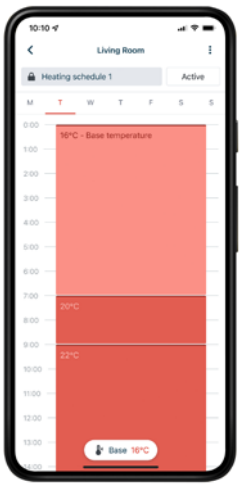
amazon alexa



Example of using the voice control via Google Assistant



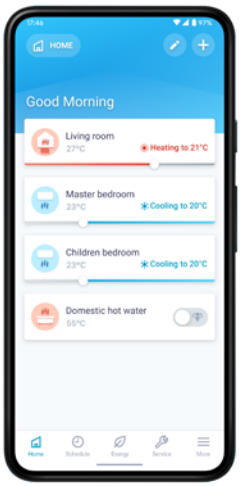
Scan the QR code to download the app now



Schedule

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

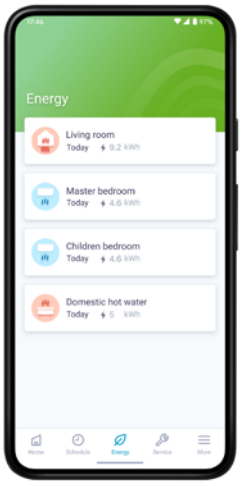
- ☑ Schedule room temperature and operation mode
- ☑ Enable holiday mode to save costs



Control

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

- ☑ Change room and domestic hot water temperature
- ☑ Turn on powerful mode to boost hot water production



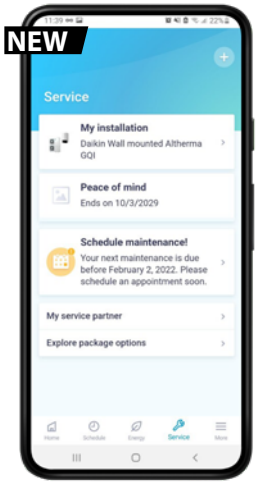
Monitor

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

- ☑ Check the status of the heating system
- ☑ Access energy consumption graphs (day, week, month)

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

Available on the App Store GET IT ON Google Play



Service - Warranty registration

- Register your unit and enjoy the benefits of Stand By Me *(extended warranty, Worry-free maintenance, Convenient follow-up)*
- Consult service partner information
- Purchase an extended warranty or get a check-up for your units


DAIKIN

Heating & cooling emitters

Daikin Altherma Underfloor heating

Your comfortable climate, day after day

Desired temperature at any time of year

Our heating systems make for a comfortable home. Heat generators such as an air-water heat pump use regenerative environmental energy as a heat source and so reduce energy consumption and keep costs to a minimum. But what about air conditioning of the rooms in summer? Very few residential buildings have air conditioning for a pleasant and comfortable temperature even on hot summer days and nights. That's changing now. With a heating system that not only provides comfortable warmth in winter, but also gentle cooling in summer throughout the entire building. And all this with very economical operation and no additional purchase costs.

Regenerative heating in winter, gentle cooling in summer

The Daikin heat pump really comes into its own when combined with a Daikin underfloor heating system. For cooling, the heat pump process is simply reversed, i.e. heat is extracted from the building and released into the environment. The room is cooled mainly by the underfloor heating system. The large surface makes for a very pleasant and draught-free room climate. Invisible and noiseless, even in cooling mode.

Clever combination: Underfloor heating and convector fan

A convector fan is used in rooms without underfloor heating to handle the dual functions of heating and cooling. It is the ideal complement to the Daikin heat pump if not all rooms have underfloor heating. Its very quiet operation means it can even be used in bedrooms. The integrated electronic room temperature control unit ensures an optimal climate in every room.

Maximum comfort and maximum savings – all-inclusive

With the existing or optionally available cooling function of the Daikin air-water heat pump, you can enjoy both heating and cooling in rooms with underfloor heating without any further outlay or investment. The operating costs for this additional comfort are also low.

Daikin Altherma ST solar thermal sytem: Minimizes energy costs

The integration of a solar system, which additionally contributes heating in winter from free solar energy, offers maximum living comfort with minimal energy costs.

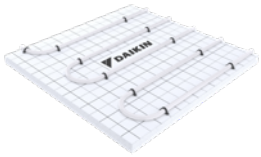
	System temperatures 35 °C - 45 °C			System temperatures 55 °C - 70 °C		Option
Areas of application:	**Monopex**	**Monopex cut**	**Monopex Industrial**	**System 70**	**System 70 Industrial**	**Heat pump convector**
New building	•			(•)*		•
Modernisation with additional height						•
Modernisation without additional height		•				•
Underfloor heating combined with radiator				•	•	•
Heating and cooling (in combination with heat pump)	•	•	•			•
Wall heating						
Large areas			•		•	
Heat generators						
Boilers	•	•	•	•	•	•
Heat pump (low-temperature heating)	•	•	•			•

* If system temperature of the heat generator requires 55 °C - 70 °C in the flow line

Monopex
The underfloor heating for low system temperatures. Ideal in combination with heat pumps.
- Monopex 14 for floor structures with system or tacker panel, wall heating and the Daikin milling system
- Monopex 16 (for France) for floor installation with system or tacker panels
- Monopex 17 for floor installation with system or tacker panels
- Monopex 20 for commercial and industrial surfaces

Clip rail for wall heating
Clip rail combined with Monopex 14 for wall heating.
Systems: Monopex 14

Protect system plate
The Protect system plate consists of a nub plate with an additional surface protection layer made of deep-drawn polystyrene to protect the heating pipe during installation.
Systems: Monopex



Tacker system
The Daikin tacker panel for underfloor heating pipes is available as a folding panel and roller track with laminated, high-strength film, and is ideal for laying heating pipes over large surfaces (e.g. commercial buildings).
Systems: Monopex

RMV heating circuit distributor
Heating circuit manifold in stainless steel. For all Daikin underfloor heating and radiator connection systems.

RMX heating circuit manifold
Heating circuit manifold made of heat-stabilised, glass fiber reinforced polyamide. For all Daikin underfloor heating and radiator connection systems.

Room controller
The room thermostat ensures convenient and individual control of the room temperature and impresses with its flat design and construction. Versions:

Wireless version
- Wireless without battery

Wired version
- LED display: Heating/cooling (red/blue)
- Read all status messages

Basic module with integrated power pack and clock module
- Basic module with integrated power pack to supply the control unit (wireless and wired) plus optional clock module
- Optimal interface to Daikin heat generators

Clock module to supplement basic module:
- 2 reduction times for heating circuits
- Pump stopping time
- Removable from the basic module for easy operation

Segmentation 1	Segmentation 2	Segmentation 3	Description	Product Name	Material Name
Piping					
UFH heating pipes	PEHD-Xc	Single pipe	MONOPEX® ø14 X 2 DD - 120	EMOPX14120AA	EMOPX14120A
			MONOPEX® ø14 X 2 DD - 240	EMOPX14240AA	EMOPX14240A
			MONOPEX® ø14 X 2 DD - 600	EMOPX14600AA	EMOPX14600A
			MONOPEX® ø17 X 2 DD - 120	EMOPX17120AA	EMOPX17120A
			MONOPEX® ø17 X 2 DD - 240	EMOPX17240AA	EMOPX17240A
			MONOPEX® ø17 X 2 DD - 600	EMOPX17600AA	EMOPX17600A
			MONOPEX ø20 X 2 DD - 400	EMOPX20400AA	EMOPX20400A
Floorplates					
Wet system Floorplates	Napplates	Diagonal With insulation	Protect Integral 27-2	EPROTECTIN272AA	EPROTECTIN272A
			Protect 11	EPROTECT11AA	EPROTECT11A
	Tacker	Tacker System	Tackerplate	ETACKERPLATEAA	ETACKERPLATEA
			Tackerplate roll	ETACKERPLATERAA	ETACKERPLATERA
Pipe accessories	Protection Pipe		Protection pipe 16/21	EPROTEPIP1621AA	EPROTEPIP1621A
			Protection pipe 19/25	EPROTEPIP1925AA	EPROTEPIP1925A
			Protection pipe 23/28	EPROTEPIP2328AA	EPROTEPIP2328A
Wall/side-strips					
Installation accessory	Plate accessories	Wall/side-strips	Side-strip for screed floor RDS	ESIDESTRIPRDSAA	ESIDESTRIPRDSA
			Closing cord floating screed floor RDS (in knob plate)	ESEALLINERDSAA	ESEALLINERDSA
			Side-strip for concrete floor RDS-I	ESIDESTRPRDSIAA	ESIDESTRPRDSIA
			Extension joint profile - carton	EXPANSIOJOICAA	EXPANSIOJOICA
			Extension joint profile - PP or PE	EXPANSIOJOIPEAA	EXPANSIOJOIPEA
	Screed Material				
	Screed		Screed Estrolith H2000	ESCREDEST2000AA	ESCREDEST2000A
			Screed Temporex	ESCREDTEMPREXAA	ESCREDTEMPREXA
			Screed Estrotherm S	ESCREDESTROSAA	ESCREDESTROSA
	Plate accessories	Primer	Surface primer 3.5kg	ESURFPRIMER35AA	ESCREDESTROSA
			Surface primer 15kg	ESURFPRIMER15AA	ESURFPRIMER35A
		In pipe protection fluid	Freeze and corrosion protection	EFREZCOPROTECAA	EFREZCOPROTECA
	Accessories				
	Tacker accessories	Tacker installation	System tacker STAC (tacker gun)	ESYSTACERSTACAA	ESYSTACERSTACA
		Tacker nail	Tacker nail TN40	ETACKERNAIL40AA	ETACKERNAIL40A
			Tacker nail TN60	ETACKERNAIL60AA	ETACKERNAIL60A
		Tape	Tape KB50	ETAPEKB50AA	ETAPEKB50A
	Wall system accessories	Cliprail	Cliprail	ECLIPRAILAA	ECLIPRAILA
		Cliprail accessories	Cliprail nail	ECLIPRAILNAILAA	ECLIPRAILNAILA
			Cliprail plug	ECLIPRAILPLUGAA	ECLIPRAILPLUGA
	Pipe accessories	Pipe clips	Pipe clips (Monopex 17/20)	EPIPECLIPMOPXAA	EPIPECLIPMOPXA
			Pipe clips (DUO25)	EPIPECLIPDUOAA	EPIPECLIPDUOA
		Manual pipe handling	Pipe fixation for steel frame	EPIPEFIXSTEELAA	EPIPEFIXSTEELA
Accessory			Pipe damage recoverator	EPIPEDAMGERECAA	EPIPEDAMGERECA
			Combined pipe cutter and stripping pilers RAZ1	EPIPCUTSTRAZ1AA	EPIPCUTSTRAZ1A
			Pipe cutter	EPIPECUTTERAA	EPIPECUTTERA
		PE Foil	PE Foil, 0.2 mm, 5 cm Raster	EPEFOILRASTERAA	EPEFOILRASTERA
		Pipe rolling machine			
		Pipe roll out	Pipe rolling machine 1 (Service)	915038	915038
			Pipe rolling machine 2 (Service)	915039	915039
			Pipe rolling machine 3 (Service)	915040	915040
		Pipe bend			
		Pipe bend	Pipe bend for 14-18	EPIPEBEND1418AA	EPIPEBEND1418A
			Pipe bend for 20-22	EPIPEBEND2022AA	EPIPEBEND2022A

UFH collector					
Collector	RMV/RMX collector	RMV collector (Stainless steel)	RMV 2	ECOLLECTRMV2AA	ECOLLECTRMV2A
			RMV 3	ECOLLECTRMV3AA	ECOLLECTRMV3A
			RMV 4	ECOLLECTRMV4AA	ECOLLECTRMV4A
			RMV 5	ECOLLECTRMV5AA	ECOLLECTRMV5A
			RMV 6	ECOLLECTRMV6AA	ECOLLECTRMV6A
			RMV 7	ECOLLECTRMV7AA	ECOLLECTRMV7A
			RMV 8	ECOLLECTRMV8AA	ECOLLECTRMV8A
			RMV 9	ECOLLECTRMV9AA	ECOLLECTRMV9A
			RMV 10	ECOLLECTRMV10AA	ECOLLECTRMV10A
			RMV 11	ECOLLECTRMV11AA	ECOLLECTRMV11A
			RMV 12	ECOLLECTRMV12AA	ECOLLECTRMV12A
		RMX Collector (Plastic)	RMX 2	ECOLLECTRMX2AA	ECOLLECTRMX2A
			RMX 3	ECOLLECTRMX3AA	ECOLLECTRMX3A
			RMX 4	ECOLLECTRMX4AA	ECOLLECTRMX4A
			RMX 5	ECOLLECTRMX5AA	ECOLLECTRMX5A
			RMX 6	ECOLLECTRMX6AA	ECOLLECTRMX6A
			RMX 7	ECOLLECTRMX7AA	ECOLLECTRMX7A
			RMX 8	ECOLLECTRMX8AA	ECOLLECTRMX8A
			RMX 9	ECOLLECTRMX9AA	ECOLLECTRMX9A
			RMX 10	ECOLLECTRMX10AA	ECOLLECTRMX10A
			RMX 11	ECOLLECTRMX11AA	ECOLLECTRMX11A
			RMX 12	ECOLLECTRMX12AA	ECOLLECTRMX12A
		UFH collector Accessories			
		Collector acc	Extension 1 zone	EXTENSIONZONEAA	EXTENSIONZONEA
			Flow sensor DMR RMX	EFLOSENDMRRMXAA	EFLOSENDMRRMXA
			COUPLING NIPPLE ¾" EUROCONE SKU	ECLUTCHNIPSKUAA	ECLUTCHNIPSKUA
			Shut off valve	ESHUTOFVALVEAA	ESHUTOFVALVEA
			AlPex coupling	EAIPEXCOUPLINAA	EAIPEXCOUPLINA
		Set ring	Set ring DUO 17	ESERIMOPXDU17AA	ESERIMOPXDU17A
			Set ring Monopex 14 x 2.2	ESERIMOPX14AA	ESERIMOPX14A
			Set ring Monopex 16 x 2.2	ESERIMOPX1622AA	ESERIMOPX1622A
			Set ring Monopex 17	ESERIMOPX17AA	ESERIMOPX17A
			Set ring DUO 25	ESERIMOPXDU25AA	ESERIMOPXDU25A
			Set ring Monopex 16 x 1.5	ESERIMOPX1615AA	ESERIMOPX1615A
			Set ring Monopex 20	ESERIMOPX20AA	ESERIMOPX20A
		Collector acc	Connection set ASH1	ECONECSETASH1AA	ECONECSETASH1A
	HKV	Set ring	Shut of for set ring	ESETRINGSHTOFAA	ESETRINGSHTOFA
Calorimeter			Calorimeter	ECALORIMETERAA	ECALORIMETERA
		Combi box	Combi box	ECOMBIBOXAA	ECOMBIBOXA
Wall Box					
	RMV/RMX	In wall collector box	In wall until RMX4/RMV3 (HKV compatible)	EIWRX4RV3AA	EIWRX4RV3A
			In wall until RMX7/RMV6 (HKV compatible)	EIWRX7RV6AA	EIWRX7RV6A
			In wall until RMX10/RMV9 (HKV comptaible)	EIWRX10RV9AA	EIWRX10RV9A
			In wall until RMX14/RMV13 (HKV compatible)	EIWRX14RV13AA	EIWRX14RV13A
			In wall until RMX14/RMV13 + calorimeter (HKV compatible)	EIWRX14RV13CLAA	EIWRX14RV13CLA
	HKV/RMX/RMV	On wall collector box	On-wall until HKV7/RMX7/RMV6	EOWHV7RX7RV6AA	EOWHV7RX7RV6A
			On-wall until HKV10/RMX10/RMV9	EOWH10RX10R9AA	EOWH10RX10R9A
			On-wall until HKV14/RMX14/RMV12	EOWH14RX14R12AA	EOWH14RX14R12A
			On-wall until HKV14/RMX14/RMV12 + calorimeter	EOWH14R14R12CAA	EOWH14R14R12CA
Console					
		Fixation console	Fixation console STK 40 for WEK40	EFCSTK40WEK40AA	EFCSTK40WEK40A
			Fixation console STK 45 for WEK45	EFCSTK45WEK45AA	EFCSTK45WEK45A
Controllers					
Controllers		Wired controllers	Base module UFH-BM	EKW175137	EKW175137
			Clock module UFH-UM	EKW175138	EKW175138
			Controller module, wire UFH-RMD2	EKW175141	EKW175141
			Controller module, wire UFH-RMD6	EKW175140	EKW175140
			Room controller, wire UFH-RD	EKW175139	EKW175139
		Wireless controllers	Rocon UFH wireless UFH-RT	175142	175142
			Base station 6 channels wireless UFH-RMF6A	175143	175143
			2 channels extra wireless UFH-RMF2A	175144	175144
		Actuators	Valve actuator RMV/RMX/HKV	EKWCVATR1V3	EKWCVATR1V3
		Base station/ Thermostat	Base station 10 zones	EKWUFHTA1V3	EKWUFHTA1V3
			Digital thermostat 230V	EKWCTRDI1V3	EKWCTRDI1V3
			Analog thermostat 230V	EKWCTRAN1V3	EKWCTRAN1V3

Heat pump convectors Daikin Altherma HPC

What is a heat pump convector?

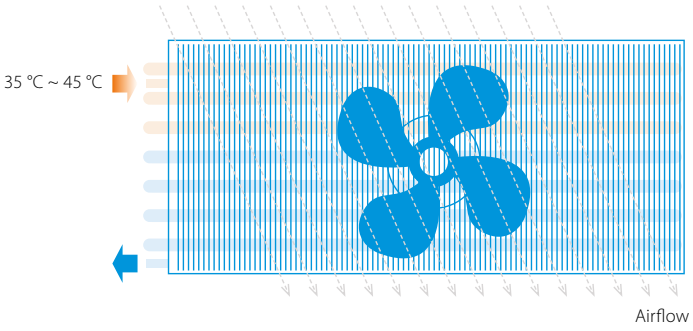
Daikin Altherma HPC provides both cooling and heating. The system is compatible with underfloor piping and radiators in a multi-zoning installation, or can replace radiators in combination with low temperature heat pumps. The unit is suited for use in bedrooms and living rooms thanks to its silent operation.

How does it work?

The way a heat pump convector works is similar to a radiator, as both use convection to heat a room. A radiator creates convection by running water through its pipes. With a heat pump convector, the convection process is faster because there is a small fan behind it, speeding up the heating cycle.

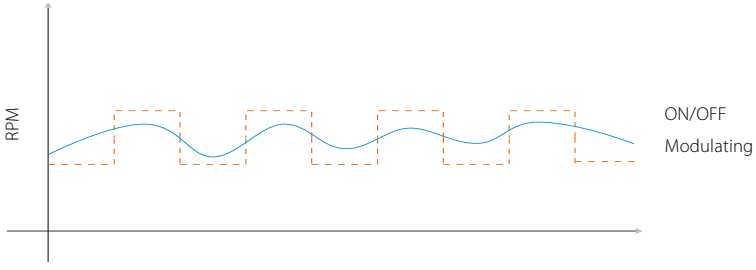
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures inside the radiator, which in the long run contributes to direct energy savings for end users.

- Optimized for newly built houses.
- Can be set at low water temperature (35 °C) which makes it ideal for heat pump applications.



Modulated airflow

When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.



DC Inverter

Daikin Altherma HPC uses the latest technologies to consume less electricity down to 3W of standby power input.

Natural symbiosis with heat pumps

By running on low temperature, Daikin Altherma heat pump convectors naturally fit with Daikin heat pumps. The heat pump convector range is made of 3 models:

1. Floor standing model with indoor air quality control (optional)
2. Wall mounted model with remote control
3. Concealed model hidden in the ceiling or wall

Daikin Altherma HPC Floor standing model

The floor standing heat pump convector impresses with its low sound operations, and its slim design that received the RedDot Award 2020. Next to heating and cooling, the unit can also provide indoor air quality control.

Why Indoor Air Quality Matters

Indoor Air Quality (IAQ) refers to the air quality in a building or structure, breathed in every day by the building's occupants.

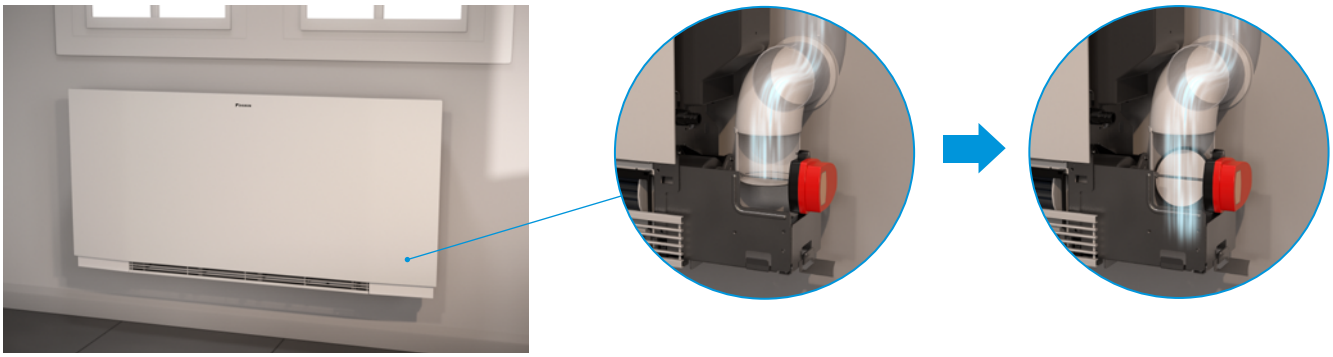
When planning new residential buildings, schools, offices or light commercial buildings, many things must be considered. Besides structural factors, there are also the topics of heating, cooling and something often neglected: indoor air quality.

Did you know that the indoor air we breathe, whether at home, at the office, or in a hotel room could in fact be much more polluted than the air outside?

- 90% of our lives is spent indoors
- Indoor air quality can be 2 to 5 times worse than outdoor air quality because of pollutants, such as pollen, bacteria, etc.

How does Daikin Altherma HPC ensure a healthy and comfortable indoor air quality?

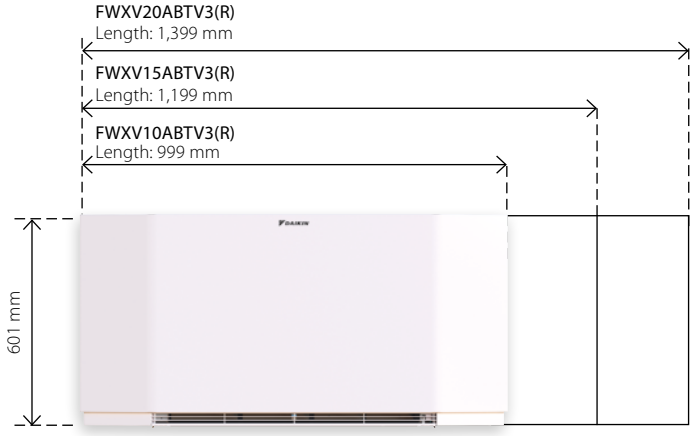
When a pollutant level of indoor air is reached, the IAQ sensor opens a damper, which allows fresh air to come in. The incoming fresh air is immediately heated or cooled (depending on the demand) by the heat pump convector. In this way the indoor air remains of good quality while comfort is ensured.



Slim design

reddot winner 2020

The floor standing Daikin Altherma HPC has a depth of only 135 mm that fits any house or apartment. Its optimised design was rewarded with the Reddot Design Award 2020.

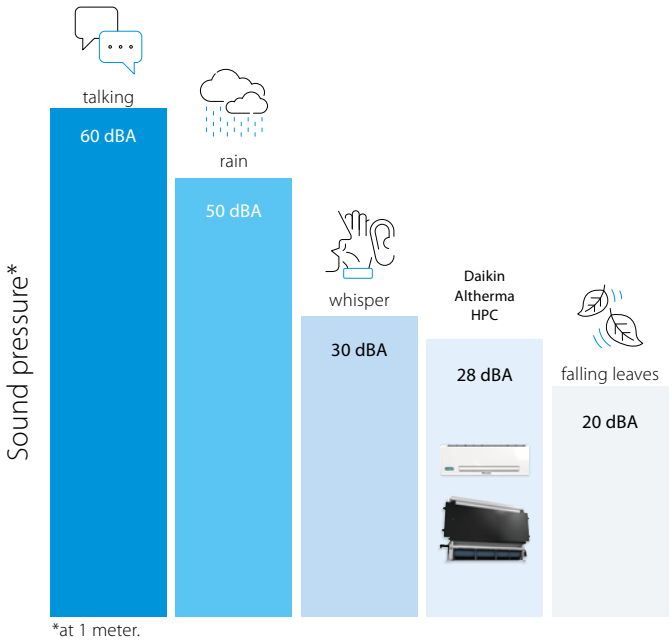


Fast and high capacity

The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling faster and can be set at ultra-low temperatures (35/30 °C regime).

Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. For the wall mounted and concealed units, the sound pressure measures 25dB(A) at 1m when the fan is on low-speed setting. Even lower sound pressure in super-silent mode (night mode).



*at 1 meter.

Controls

Daikin offers a wide variety of controllers that are functional and have a great design.

EKRTCTRL1

- Built-in controller
- Fully modulating
- Multicolor display

EKRTCTRL2

- Built-in controller
- 4 speed settings

EKWHCTRL1

- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

EKPCBO

- Built-in controller
- ON/OFF
- In combination with external thermostats

EKWHCTRL1A

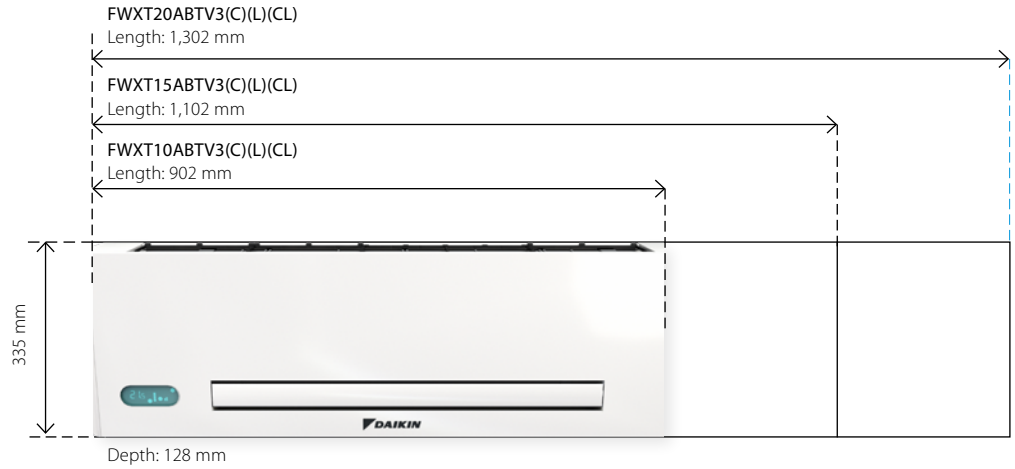
- Wall controller
- Fully modulating
- In combination with EKWHCTRL0
- Includes indoor air quality sensor

Wall-mounted model

Thanks to its slim design, our wall-mounted unit blends in with your interior discreetly while helping you save valuable floor space.

Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves.



Controls

Choice of:
- Fully modulating controller allowing for remote control of the unit.
- Infrared remote controller and on-board touch panel.

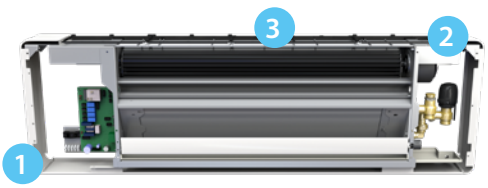
EKWHCTRL1

- Wall controller
- Fully modulating
- For models FWXT-ABTV3(L)

Infrared remote controller

- Remote
- Fully modulating
- For models FWXT-ABTV3C(L)

Compactness



1 **Slim depth**
The depth of 128 mm is an outstanding technical achievement that ensures a perfect fit in any home.

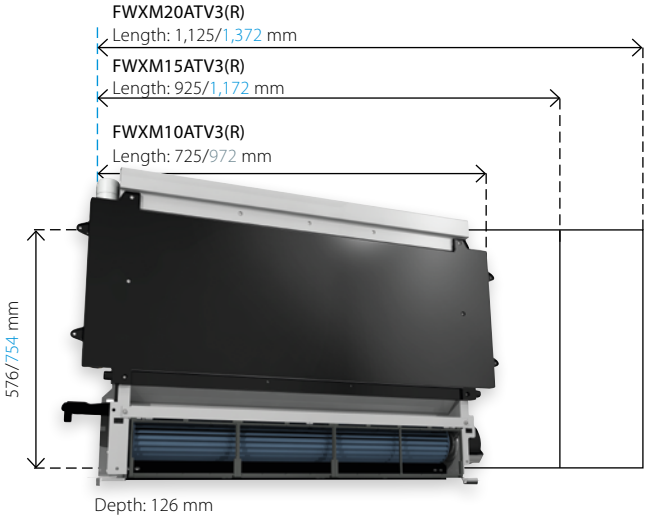
2 **More space for valves**
Ease of installation: the space for hydraulic valves is wide and easily accessible.

3 **Modulated airflow**
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound.

Concealed model

Forget about your heating or cooling installation altogether: our concealed model vanishes into the wall or ceiling for visual comfort while preserving its unique heating and cooling capabilities.

Slim design



Blue dimensions are for the front cover.

Controls

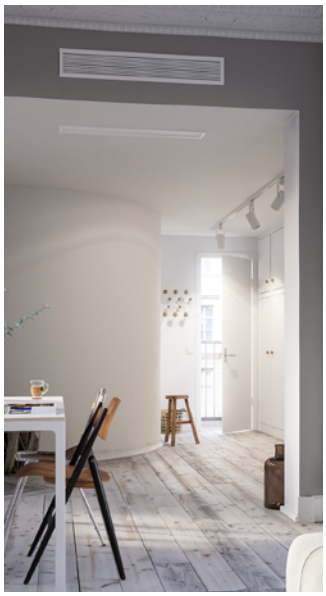
EKWHCTRL1

- Wall controller
- Fully modulating
- In combination with EKWHCTRL0

Flexible installation

Daikin Altherma HPC can be installed in four different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in-ceiling installation, three different possibilities are offered:

- Horizontal cover panel and vertical grille for air outlet
- Horizontal intake grille and vertical grille for air outlet
- Horizontal intake and outlet grilles



Heat pump convectors

FWXV-ATV3 FWXV-ATV3R

Indoor unit					**FWXV10ABTV3(R)**	**FWXV15ABTV3(R)**	**FWXV20ABTV3(R)**
Cooling capacity at 7/12 °C	Min.			kW	0.78	1.10	1.13
	Med.			kW	1.11	1.65	1.98
	Max.			kW	1.62	2.64	2.99
Sensible cooling capacity at 7/12 °C	Min.			kW	0.58	0.82	0.85
	Med.			kW	0.71	1.15	1.55
	Max.			kW	1.25	1.91	2.33
Heating capacity at 45/40 °C	Min.			kW	0.87	1.12	1.11
	Med.			kW	1.27	1.83	2.32
	Max.			kW	1.96	2.86	3.50
Power input	Min.			W	6	7	8
	Med.			W	10	13	15
	Max.			W	19	25	31
Fan speed	Min.			RPM		720	
	Med.			RPM		1,220	
	Max.			RPM		1,700	
Casing	Colour					White, RAL 9003	
	Material					Metal sheet	
Dimensions	Unit	Height		mm		601	
		Width		mm	999	1,199	1,399
		Depth		mm		135	
	Packed unit	Height		mm		690	
		Width		mm	1,230	1,430	1,630
		Depth		mm		210	
Weight	Unit			kg	20	23	26
	Packed unit			kg	21	24	27
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity					1	
	Internal coil volume			l	0.80	1.13	1.46
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	7	9	8
		Med.		kPa	8	14	15
		Max.		kPa	11	23	22
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	7	9	8
		Med.		kPa	8	14	15
		Max.		kPa	11	23	22
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	150	193	191
		Med.		kg/h	218	315	399
		Max.		kg/h	337	492	602
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	134	189	194
		Med.		kg/h	191	284	341
		Max.		kg/h	279	454	514
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	40	42	43
	Med.			dBA	47	49	50
	Max.			dBA	56	57	58
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					no	
	On-board control					yes	
Electrical specifications					**FWXV10ABTV3(R)**	**FWXV15ABTV3(R)**	**FWXV20ABTV3(R)**
Power supply	Phase					1	
	Frequency			Hz		50	
	Voltage			V		230	
Electrical power consumption	Max.			W	19	25	31
	Standby			W	3	4	5
Current	Maximum running current			A	0.15	0.21	0.27

Heat pump convectors

FWXT-ATV3 FWXT-ATV3C FWXT-ATV3L FWXT-ATV3CL

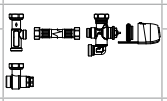
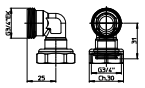
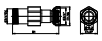
Indoor unit					FWXT10ABTV3(C)(L)(CL)	FWXT15ABTV3(C)(L)(CL)	FWXT20ABTV3(C)(L)(CL)
Cooling capacity at 7/12 °C	Min.			kW	0.49	0.62	0.70
	Med.			kW	0.88	1.08	1.21
	Max.			kW	1.24	1.61	1.94
Sensible cooling capacity at 7/12 °C	Min.			kW	0.37	0.52	0.57
	Med.			kW	0.70	0.86	1.02
	Max.			kW	0.98	1.27	1.52
Heating capacity at 45/40 °C	Min.			kW	0.55	0.79	0.74
	Med.			kW	1	1.36	1.55
	Max.			kW	1.50	2.01	2.13
Power input	Min.			W		5	
	Mid.			W	8	9	10
	Max.			W	19	20	29
Fan speed	Min.			RPM		680	
	Med.			RPM		1,100	
	Max.			RPM		1,500	
Casing	Colour					White, RAL 9003	
	Material					Metal sheet	
Dimensions	Unit	Height		mm		335	
		Width		mm	902	1,102	1,302
		Depth		mm		128	
	Packed unit	Height		mm		490	
		Width		mm	1,030	1,230	1,430
		Depth		mm		210	
Weight	Unit			kg	14	16	19
	Packed unit			kg	15	17	20
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity					1	
	Internal coil volume			l	0.50	0.61	0.77
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	5.10	4.81	6
		Med.		kPa	12	6.30	6.40
		Max.		kPa	16.30	7.20	8.10
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	4.80	4.70	5.50
		Med.		kPa	10.50	5.60	5.40
		Max.		kPa	11.70	5.10	5.30
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	100	140	150
		Med.		kg/h	170	240	300
		Max.		kg/h	260	350	420
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	80	110	120
		Med.		kg/h	150	190	210
		Max.		kg/h	210	280	330
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	35	36	37
	Med.			dBA	46	47	48
	Max.			dBA	53	54	55
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					yes for -C models	
	On-board control					yes	
Electrical specifications					**FWXT10ABTV3(C)(L)(CL)**	**FWXT15ABTV3(C)(L)(CL)**	**FWXT20ABTV3(C)(L)(CL)**
Power supply	Phase					1	
	Frequency			Hz		50	
	Voltage			V		230	
Electrical power consumption	Max.			W	19	20	29
	Standby			W	3	4	5
Current	Maximum running current			A	0.16	0.18	0.24

Heat pump convectors

FWXM-ATV3 FWXM-ATV3R

Indoor unit					FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Cooling capacity at 7/12 °C	Min.			kW	0.75	1.15	1.32
	Med.			kW	1.36	2.08	2.39
	Max.			kW	2.12	2.81	3.30
Sensible cooling capacity at 7/12 °C	Min.			kW	0.59	0.83	1.02
	Med.			kW	1.07	1.51	1.84
	Max.			kW	1.72	2.11	2.71
Heating capacity at 45/40 °C	Min.			kW	0.82	1.20	1.47
	Med.			kW	1.53	2.16	2.59
	Max.			kW	2.21	3.02	3.81
Power input	Min.			W	4	6	5
	Med.			W	8	11	11
	Max.			W	19	20	29
Fan speed	Min.			RPM		680	
	Med.			RPM		1,100	
	Max.			RPM		1,500	
Casing	Material					No casing	
Dimensions	Unit	Height		mm		576	
		Width		mm	725	925	1,125
		Depth		mm		126	
	Packed unit	Height		mm		690	
		Width		mm	830	1,030	1,230
		Depth		mm		210	
Weight	Unit			kg	12	15	18
	Packed unit			kg	13	16	19
Packing	Material					Carton	
	Weight			kg		1	
Heat exchanger	Quantity				1	1	1
	Internal coil volume			l	0.80	1.13	1.46
		Max Operating pressure		bar		10	
Water circuit	Piping connections diameter			inch		3/4" male	
	Piping material					Copper	
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	1.50	2.70	3
		Med.		kPa	4.30	9.30	8.90
		Max.		kPa	1.90	19.10	21.20
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	1.90	2.70	2.50
		Med.		kPa	4.30	9.90	8.80
		Max.		kPa	8.20	17.10	18
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	141	206	253
		Med.		kg/h	263	372	445
		Max.		kg/h	380	519	655
	Cooling - Water flow rate at 7/12 °C	Min.		kg/h	129	198	227
		Med.		kg/h	234	358	411
		Max.		kg/h	365	483	568
	Pressure	Heating/Max.		bar		10	
Sound power level	Min.			dBA	35	36	36
	Med.			dBA	45	46	47
	Max.			dBA	53	54	55
Operation range	Heating	Water side	Min.	°C		30	
			Max.	°C		85	
	Cooling	Water side	Min.	°C		5	
			Max.	°C		18	
	Indoor installation	Ambient	Min.	°CDB		0	
			Max.	°CDB		45	
Control systems	Infrared remote control					no	
	On-board control				no		

Electrical specifications				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Power supply	Phase				1	
	Frequency		Hz		50	
	Voltage		V		230	
Electrical power consumption	Max.		W	19	20	29
	Standby		W	3	4	5
Current	Maximum running current		A	0.16	0.18	0.26

Description	Picture	Material name	FWXV10ABTV3(R) FWXV15ABTV3(R) FWXV20ABTV3(R)	FWXT10ABTV3(C)(L)(CL) FWXT15ABTV3(C)(L)(CL) FWXT20ABTV3(C)(L)(CL)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
On-board electronic control SMART TOUCH with PID full modulating fan and thermostat		EKRTCTRL1	•				
On-board electronic control SMART TOUCH 4 speeds with thermostat		EKRTCTRL2	•				
On-board 4 speeds control switch to be combined with Daikin compatibe thermostats		EKPCBO	•		•	•	•
On board 4 speeds control box to be combine with 4 speed thermostats		EKPCB4S	•		•	•	•
On board 1-10V control box to be combine with 1-10V thermostats		EKPCB10	•		•	•	•
On-board controller for EKWHCTRL1		EKWHCTRL0	•		•	•	•
SMART LCD wall controller with temperature probe, white casing		EKWHCTRL1	•	• (excl. FWXT-ABTV3(C/CL)	•	•	•
SMART LCD wall controller with temperature probe, white casing, including indoor air quality sensor		EKWHCTRL1A	•				
IR remote control				Standard (only FWXT-ABTV3(C/CL))			
Fresh air damper kit		EKFCD80	•				
Aesthetical feet		EKFA	•				
Motorised 2-way valve (FWXV/M)		EK2VK0	•		•	•	•
Motorised 2-way valve (FWXT)		EKT2VK0		•			
Motorised 3-way valve (FWXV/M)		EK3VK1	•		•	•	•
Motorised 3-way valve (FWXT)		EKT3VK1		•			
L-bow 90 °C		EKEUR90	•		•	•	•
Extension piece		EKDIST	•		•	•	•
Condensate collector tray for horizontal installation		EKM10COH	•				
		EKM15COH	•				
		EKM20COH	•				
Metal casing		EKM10CS			•		
		EKM15CS				•	
		EKM20CS					•
Front cover for ceiling installation		EKM10CH			•		
		EKM15CH				•	
		EKM20CH					•
Front cover for wall installation		EKM10CV			•		
		EKM15CV				•	
		EKM20CV					•
Air intake fitting		EKM10DH			•		
		EKM15DH				•	
		EKM20DH					•
90 °C exhaust bend (Horizontal)		EKM10D90			•		
		EKM15D90				•	
		EKM20D90					•
Telescopic air flow duct		EKM10DT			•		
		EKM15DT				•	
		EKM20DT					•
Aluminum air intake grille with straight airflow		EKM10IS			•		
		EKM15IS				•	
		EKM20IS					•
Straight airflow vent		EKM10SV			•		
		EKM15SV				•	
		EKM20SV					•
Aluminum air intake grille with curved airflow		EKM10IC			•		
		EKM15IC				•	
		EKM20IC					•
Aluminum air outlet grille with curved airflow		EKM10CA			•		
		EKM15CA				•	
		EKM20CA					•

Daikin Altherma ST - Solar heating systems

Daikin Altherma ST

Maximising renewable energy

Why choose a Daikin Altherma ST solar panel?

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

☑ Comfort

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

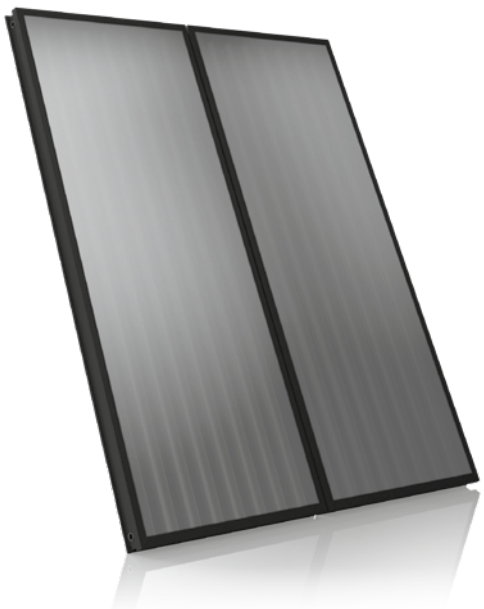
☑ Energy efficiency

ECH$_2$O thermal store range:
Hot water savings with solar energy
Reduce your energy costs by taking advantage of the sun's renewable energy with our solar hot water systems. Built for small and large homes, individuals can choose between a pressureless or pressurised hot water system.

☑ Reliability

Keymark Certificate

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



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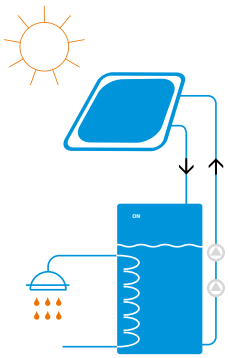
The Drain-Back solar system

How is it working?

- Starting the pump station engages the filling of the primary network and ensures the energy transfer from the solar collectors to the thermal store.
- Whenever the pump station stops working, the water contained in the collectors goes down back to the thermal store
- The air intake allowing the draining is ensured by an orifice always placed out of water (at atmospheric pressure)
- Thanks to this unique way of working, no safety devices, safety valves, expansion vessels, anti-return valve or glycol are necessary

Advantages

- 0 % glycol: the liquid carrying the heat is only the water inside the system
- Self-working system with the pump station modulations depending the temperatures inside the collectors and the thermal store
- Automatic management of the defrost mode and avoidance of overheating mode
- No commissioning on the solar system, no replacement of the heat-carrying liquid



The pressurised solar system

How is it working?

- The heat-carrying liquid is mixed with glycol to avoid freezing in the solar collectors system
- Whenever the solar collectors reach an useful temperature level, the system provides a continuous supply of energy
- The energy from the collectors is returned to the thermal store thanks to the coil

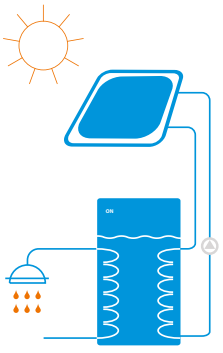
Advantages

Monovalent

- The solar system is used as first heating source and can be coupled with a wall mounted boiler. The cold water is first pre-heated in the thermal store and the boiler can provide additional heat instantaneously if needed

Bivalent

- The solar system integrates a backup heater. The domestic hot water is directly produced in the thermal store. The additional heater ensures the back-up in case of low sunshine



Solar panel - Overview EKSV21P - small vertical model

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

Solar panel
EKSV21P

Number of solar panels Type of installation Article	Type	Order No.	2 On-roof Quantity	2 In-roof Quantity	3 On-roof Quantity	3 In-roof Quantity	4 On-roof Quantity	4 In-roof Quantity	5 On-roof Quantity	5 In-roof Quantity
Solar panel	EKSV21P	16 20 12-RTX	2	2	3	3	4	4	5	5
Solar panel connection	FIX-VBP	16 20 16-RTX	1	1	2	2	3	3	4	4
Installation rail for individual solar panel	FIX MP 100	16 20 66	2	2	3	3	4	4	5	5
On-roof installation kit for one solar panel DB+P) (2 roof hooks per kit)	FIX-ADDP	16 20 85	42)	0	62)	0	82)	0	102)	0
In-roof installation package, basic storage for two solar panel	IB EKSV21P	16 20 17	0	1	0	1	0	1	0	1
In-roof installation package, additional storage for central solar panel	IE EKSV21P	16 20 18	0	0	0	1	0	2	0	3

Material list standard solar panels with Drain-back system

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

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

Material list solar panels with pressurised system [1)]

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

DB Drain-back system

P Pressurised system

DB) Only required for installations with drain-back system.

P) Only required for pressurised installations.

* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.

1) The roof penetration for on-roof and flat roof installation is to be provided by the customer.
The solar fluid must be ordered separately.

2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

Solar panel - Overview EKSV26P - standard vertical model

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

Solar panel
EKSV26P

Number of solar panels Type of installation / Article	Type	Order No.	2 On-roof Quantity	2 In-roof Quantity	2 Flat roof Quantity	3 On-roof Quantity	3 In-roof Quantity	3 Flat roof Quantity	4 On-roof Quantity	4 In-roof Quantity	4 Flat roof Quantity	5 On-roof Quantity	5 In-roof Quantity	5 Flat roof Quantity
Solar panel	EKSV26P	EKSV26P	2	2	2	3	3	3	4	4	4	5	5	5
Solar panel connection	FIX-VBP	16 20 16 - RTX	1	1	1	2	2	2	3	3	3	4	4	4
Mounting rail single collector	FIX MP 130	16 20 67	2	2	2	3	3	3	4	4	4	5	5	5
On-roof installation pack for one solar panel DB+P) (2 roof hooks per kit)	FIX-ADDP	16 20 85	42)	0	0	62)	0	0	82)	0	0	102)	0	0
In-roof installation kit, basic flashing for two solar panels	IB V26P	16 20 19	0	1	0	0	1	0	0	1	0	0	1	0
In-roof installation pack, additional flashing for central solar panel	IE V26P	16 20 20	0	0	0	0	1	0	0	2	0	0	3	0
Flat-roof frame, basic pack for two solar panels	FB V26P	16 20 58	0	0	1	0	0	1	0	0	1	0	0	1
Flat-roof frame, expansion pack additional solar panel	FE V26P	16 20 59	0	0	0	0	0	1	0	0	2	0	0	3

Material list standard solar panels with Drain-back system

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

Material list solar panels with pressurised system [1)]

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

Nominal volume, complete system				
Number of solar panels	2	3	4	5
Connecting line 15 m	DN16	DN16	DN20	DN20
Nominal system volume (L)	21	22.7	24.4	26.1

Solar panel - Overview EKSH26P - standard horizontal model

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

Solar panel
H26 P

Number of solar panels Type of installation Article	Type	Order No.	1 On-roof Quantity	1 Flat roof Quantity	2 On-roof Quantity	2 Flat roof Quantity	3 On-roof Quantity	3 Flat roof Quantity	4 On-roof Quantity	4 Flat roof Quantity	5 On-roof Quantity	5 Flat roof Quantity
Solar panel	EKSH26P	EKSH26P	1	1	2	2	3	3	4	4	5	5
Solar panel connection	FIX-VBP	16 20 16 - RTX	0	0	1	1	2	2	3	3	4	4
Installation rail guide for individual solar panel	FIX MP 200	16 20 68	1	1	2	2	3	3	4	4	5	5
On-roof installation pack for one solar panel P) (4 roof hooks per kit)	FIX-ADDP	16 20 85	22)	0	42)	0	62)	0	82)	0	102)	0
Flat roof support frame basic kit for one solar panel	FB H26P	16 20 60	0	1	0	1	0	1	0	1	0	1
Flat roof trestle Extension pack for one additional solar panel	FE H26P	16 20 61	0	0	0	1	0	2	0	3	0	4

Nominal volume, complete system				
Number of solar panels	2	3	4	5
Connecting line 15 m	DN16	DN16	DN 0	DN20
Nominal system volume (L)	21.6	23.9	26	28.1

Material list solar panels with pressurised system 1)

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

Pressurised system

DB) Only required for installations with drain-back system.

P) Only required for pressurised installations.

* Standard recommendation, after detailed expansion vessel calculation, other expansion vessels may be necessary.

1) The roof penetration for on-roof and flat roof installation is to be provided by the customer. The solar fluid must be ordered separately.

2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

Solar panel - Overview EKSV26P - standard vertical model

List of materials for solar components that connect several storage tanks

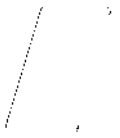
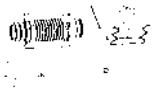
DB

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

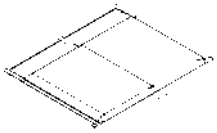
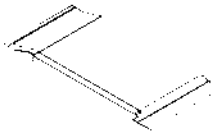
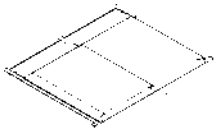
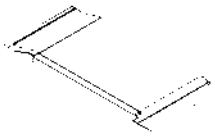
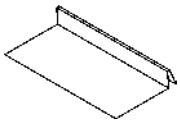
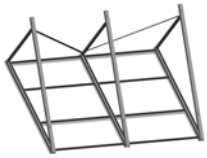
Solar panels for pressurised use and Drain-back system

High-efficiency flat solar panels

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

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

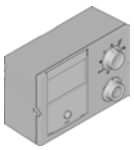
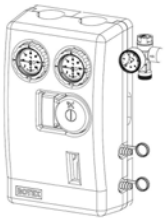
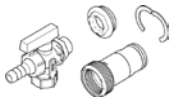
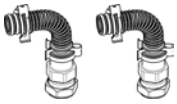
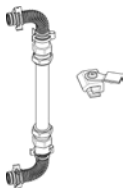
Solar panels for pressurised use and Drain-back system

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

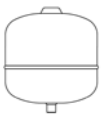
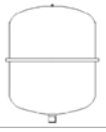
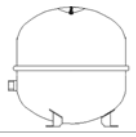
DB Drain-back system

P Pressurised system

Solar panel - pressurised system

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

Solar panel - pressurised system

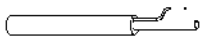
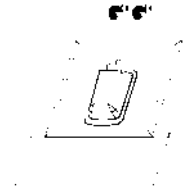
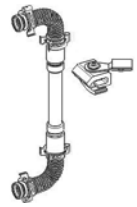
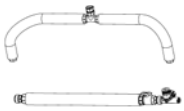
	Article		Type	Order No.
Expansion vessel 12 L with connection block		For solar panels with pressure systems of max. 2 x EKSV21P - solar panels.	MAG S12	16 20 70
Expansion vessel 25 L with connection block		For solar panels with pressure systems of max. 3 solar panels.	MAG S 25	16 20 50
Expansion vessel 35 L with connection block		For solar panels with pressure systems of max. 5 solar panels.	MAG S 35	16 20 51-RTX
GLYCOL CORACON SOL 5F		20 L can of pre-mixed solar fluid, functional range up to -28 °C.	CORACON SOL 5F	16 20 52-RTX
Fill and draining valve				16 41 17
GLYCOL CORACON SOL 5		1 L of solar fluid concentrate for extension of the frost range. With 20 L of solar fluid with 1 L additive, the use range extends down to -33 °C. For 20 L of solar fluid with 2x 1 L of additive, the functional range is extended to -38 °C.	CORACON SOL 5	16 20 53
Circulation lance		For energetically-optimised incorporation of the domestic hot water circulation in the hot water connection of the warm-water storage tank.	ZKL	16 51 13
Thermostatic mixer as scalding protector		Thermal safety device for the domestic water pipe. Setting range 35-60 °C.	VTA32	15 60 15
Screw connection kit 1''		For connection of the scald protection VTA32.		15 60 16
Thermostatic regulator 230V		With capillary tube temperature sensor, setting range 35-85 °C.	SCS-TR	16 41 30
3-way switching valve 1" male		With motor drive 230V, switchover time 6 sec.	3 W-UV	15 60 34

Solar panels - drain-back system

Article			Type	Order No.
EKSRPS4 regulation and pump unit		Ready to plug in unit (230V), with digital differential temperature regulation, return and storage tank temperature sensors, high-efficiency circulation pump. INFO: The flow sensor (FLS 20), included in the supply, provides more effective operation of the EKSRPS4. In addition to direct calculation of the heat output, the sensor allows modulation of the operating pump and thus an additional saving in electrical energy.	EKSRPS4	EKSRPS4A
Additional pump set RPS4				164243
Fill and tap connection solar panel with drain-back system		For easy filling of solar panels with drain-back system from 2013 onwards through the solar flow connector.	KFE DB BA	16 52 16
Burner blocking contact connection cable		For RPS2, RPS3, RPS3 M, RPS3 25M.	BSKK	16 41 10-RTX
Solar panel FlowGuard solar flow regulator		With solar flow indicator 2-16 l/min.	FLG	16 41 02-RTX
Connection tube solar panel		Ready to connect connection line 15 m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 15	16 47 32
Connection tube solar panel		Ready to connect connection line 20 m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 20	16 47 33
Solar panel solar flow sensor 100		Sensor for expanding RPS3 25M control system, enables heat yield metering in large installations. Measuring range up to 100 l/min.	FLS 100	16 41 03-RTX
Extension		For connecting a collector array (EKSV21P, EKSV26P, EKSH26P) to the on-site rigid copper connection pipes when using roof penetration box kits EKSRCAP, EKSRCRP, RCIP, RCFP.	CON X20 25M	16 42 31

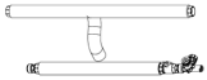
Solar panels - drain-back system

DB

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

Solar panels - drain-back system

DB

		Article	Type	Order No.
Solar panel storage tank extension kit 2		Connection kit for the connection of additional warm-water storage tanks, consisting of drain-back connection tube and lead supply line.	CON SXE	16 01 21
Circulation lance		For energetically-optimised incorporation of the tap-water circulation in the hot water connection of the warm-water storage tank.	ZKL	16 51 13
Thermostatic mixer as scalding protector		Thermal safety device for the warm-water pipe. Setting range 35-60 °C.	VTA32	15 60 15
Screw connection kit 1''		For connection of the scald protection VTA32.		15 60 16
Thermostatic regulator 230V		With capillary tube temperature sensor, setting range 35-85 °C.	SCS-TR	16 41 30
3-way switching valve 1" male		With motor drive 230V, switch-over time 6 sec.	3 W-UV	15 60 34
Collector connector (connect B)				164201-RTX
Connector 18/18				164233-RTX
Connector 15/15				164234-RTX
Plug-in coupling for RPS4 22/15				164237-RTX

Solar collector

Thermal solar collector for hot water production

- Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- Horizontal solar collector for domestic hot water production
- Vertical solar collector for domestic hot water production
- High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- Easy to install on roof tiles
- Can be used for drain-back and pressurised applications

EKSV21P

EKSV-P EKSH-P

Accessory				EKSV21P	EKSV26P	EKSH26P
Mounting				Vertical		Horizontal
Dimensions	Unit	HeightxWidthxDepth	mm	2,000x1,006x85	2,000x1,300x85	1,300x2,000x85
Weight	Unit		kg	33	42	
Volume			L	1.30	1.70	2.10
Surface	Outer		m^2	2.01	2.60	
	Aperture		m^2	1,800	2,360	
	Absorber		m^2	1.80	2.36	
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle	Min. ~ Max.		°	15 ~ 80		
Operating pressure	Max.		bar	6		
Stand still temperature	Max.		°C	192		
Thermal performance	Collector efficiency (ηcol)		%	53		
	Zero loss collector efficiency η0		%	0.71		
	Heat loss coefficient a1		$W/m^2.K$	4,300		
	Temperature dependence of the heat loss coefficient a2		$W/m^2.K^2$	0.006		
	Thermal capacity		kJ/K	4.90	6.50	

EKSRPS4A/EKSRDS2A

Pump station

- Save energy and reduce CO_2 emissions with a solar system for domestic hot water production
- Pump station connectable to drain-back solar system
- Pump station and control provide the transfer of solar heat to the domestic hot water tank

EKSRPS4A

EKSRPS4A EKSRDS2A

Accessory				EKSRPS4A	EKSRDS2A
Mounting				On side of tank	On wall
Dimensions	Unit	HeightxWidthxDepth	mm	815x142x230	410x314x154
Weight	Unit		kg	6.40	6
Operation range	Ambient temperature	Min. ~ Max.	°C	5 ~ 40	- ~ 40
Operating pressure	Max.		bar	-	6
Stand still temperature	Max.		°C	85	120
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption		W	2	5
Sensor	Solar panel temperature sensor			Pt1000	
	Storage tank sensor			PTC	-
	Return flow sensor			PTC	-
	Feed temperature and flow sensor			Voltage signal (3.5V DC)	-
Power supply	Phase/Frequency/Voltage		Hz/V	1 ~/50/230	-/50/230
Power supply intake				Indoor unit	
Auxiliary	Solpump		W	37.3	23
	Annual auxiliary electricity consumption Qaux		kWh	92.1	89
	Solstandby		W	2.00	5.00