

Product catalogue 2023
Heating



All-in-one comfort for residential applications



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.

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.

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What's new in 2023

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



The monobloc standard, the ideal solution for limited space

p. 62

NEW

- ✓ This solution is available in class 4-6-8, completing the existing Daikin range of class 9-11-14-16.
- ✓ Daikin Altherma 3 M offers the most compact solution for homes where space is limited. This solution integrates all the electric and hydraulic components in one unit.
- ✓ Running on R-32 refrigerant, this solution also offers a lower global warming potential which answers the requirements of the European decarbonisation goals.



R-32 Low GWP refrigerant

Onecta app to control your unit from home or remotely



Control your unit with the voice, thanks to Amazon Alexa or Google Assistant

Stand by me is your after-sales tool for extended guarantees



Connect your home to Daikin residential cloud and get more online services

Daikin Altherma 3 M delivers a leaving water temperature of 55°C at -15°C outside, in heat pump mode



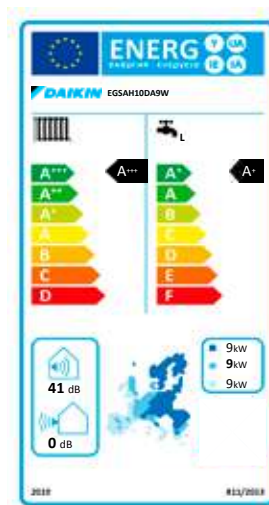
Top-notch technologies and efficiency

Daikin commits to develop the most effective technologies to reach the best energy efficiency levels and respect the planet. Our Bluevolution technology uses the R-32 refrigerant, which largely lowers CO₂ emissions compared to its competitors. Daikin leads again the way for better heating solutions and a better environment.

Customers are looking for the best solutions for their home, with an eye on the energy efficiency labels. Daikin always proposes the most environment friendly units with the maximum energy labels for the heat pumps. Since the 26th of September 2019, new energy labels are available and rate the heating products from A+++ to D in space heating, and from A+ to F in water heating.

The third generation Daikin Altherma heat pumps reach this efficiency thanks to the Bluevolution technology. It combines an in-house developed compressor and the R-32 refrigerant which makes it unique on the market.

Less CO₂ emissions & more efficiency, the recipes for top-notch technologies.



Heat Pump Keymark

A unique certificate for the European market



The Heat Pump KEYMARK is a voluntary, independent, European certification mark for all heat pumps. It certifies space heating performance, sound power level, domestic hot water performance as well as operating tests.

The Heat Pump KEYMARK is based on independent, third-party testing and demonstrates compliance with product requirements as set in the Heat Pump KEYMARK scheme rules and with efficiency requirements as set by Ecodesign Lot 1, Lot 2.

As a group, we are strongly convinced of the quality of this scheme, both for our customers and ourselves as manufacturers. It is therefore our intention to certify the entire portfolio of Daikin Altherma heat pumps.

Find all our certified products on
<https://keymark.eu/en/products/heatpumps/heat-pumps>

4 Steps to decarbonising residential heat

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 CO₂ 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.

2020

2030

1

40%

2

3

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.

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.

2050

4

100%

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.

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.



HSN
PRO

Heating Solutions Navigator

Provide the best fit solution for your customers homes



Web portal



Professionals



Daikin e-Care

Access to registration, configuration and trouble shooting



Mobile app



Professionals



Stand By Me

Manage your installation database and offer comfort and service to your customer



Web portal



Professionals



Onecta app

End-user app to control the residential unit



Mobile app



Consumer



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

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:
ventilation quotation tool



Daikin e-Care

Newest function:
commissioning tool



Stand By Me

Newest functions:
purchase of warranty extension,
request for assistance



Onecta App

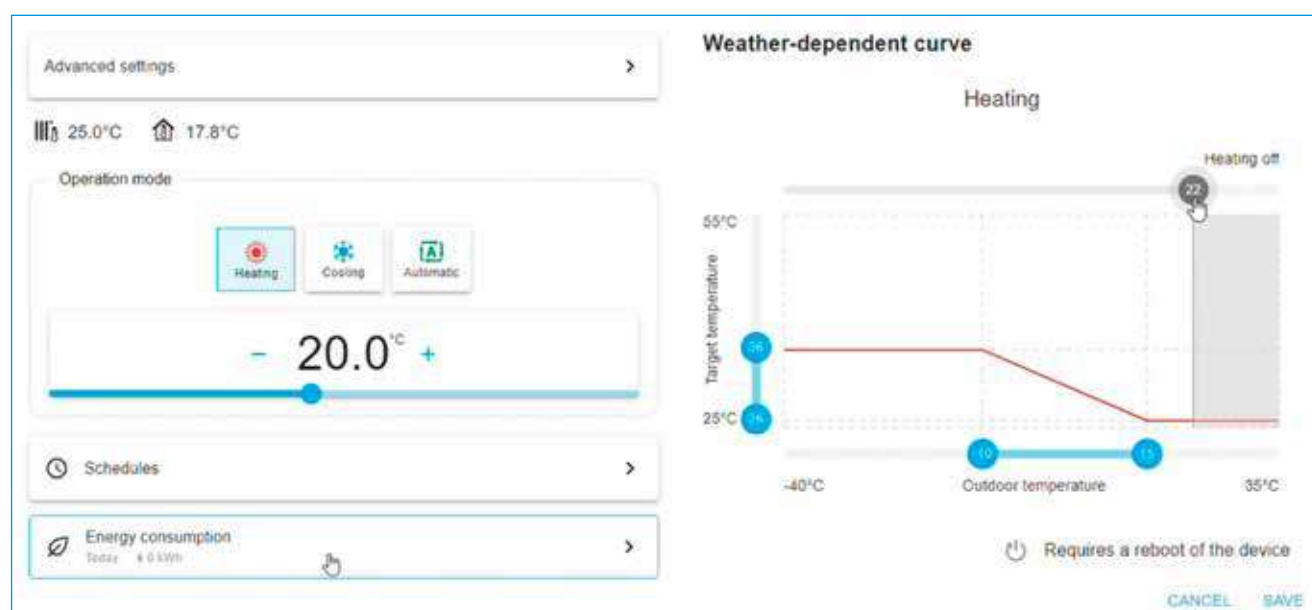
Newest function:
multiple users can control the
units in a house, new users
can be invited through the
generation of a QR code

NEW

Error notification and 20 installer settings for remote support through SBM Pro and e-care app

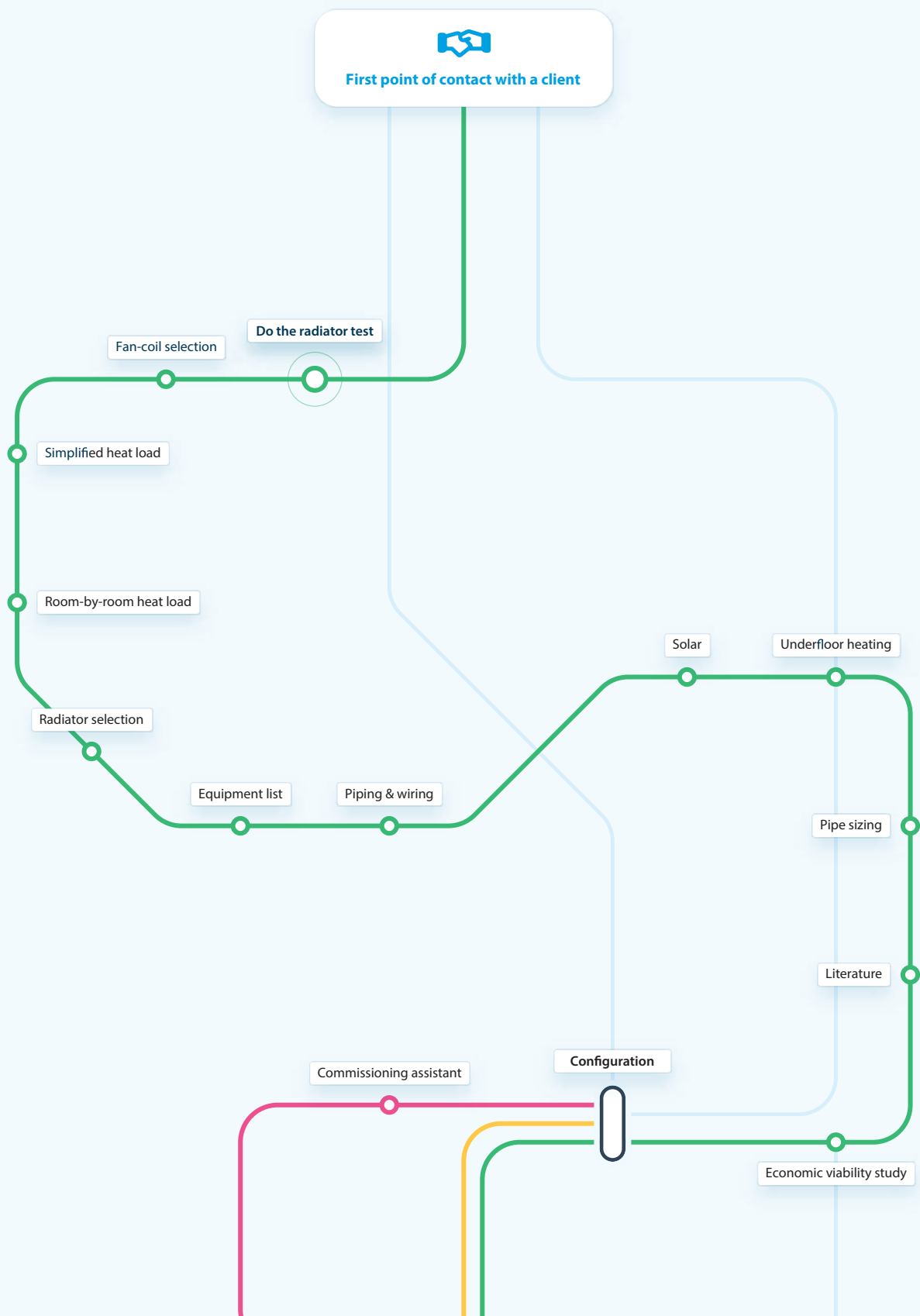
From the professional portal, installers can activate the remote monitoring allowing them to supervise your installation on multiple parameters, from their location. They will get an automatic notification in case there is something wrong with the installation. By changing certain settings they can improve your comfort immediately. Save time and get a better support, thanks to these new features.

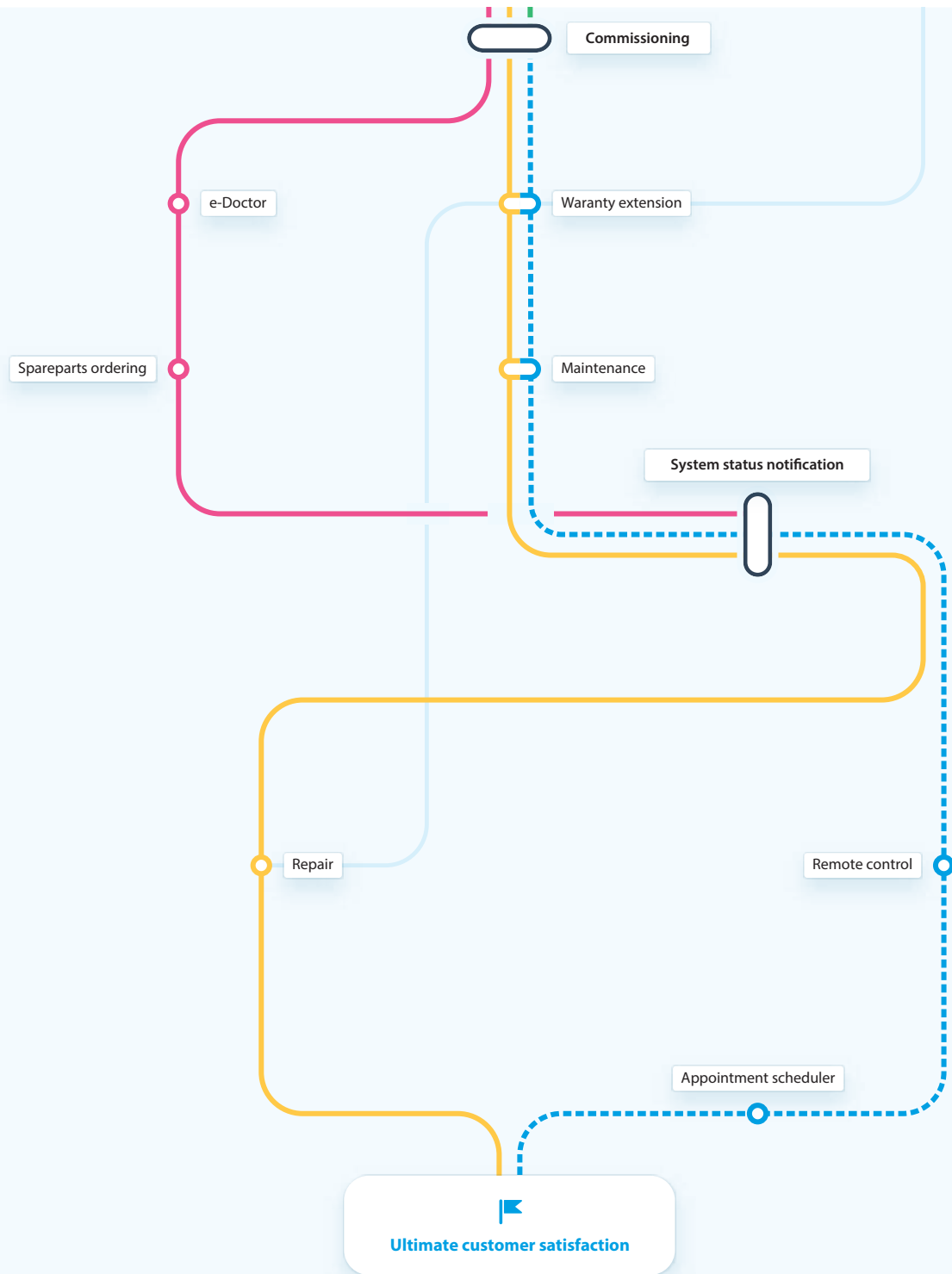
- ☒ Space heating/cooling
- ☒ Main zone & Additional zone (LWT)
- ☒ Domestic hot water
- ☒ Room (RT)
- ☒ Installer – Error handling



All about the Heating Solutions Navigator

The Heating Solutions Navigator is a digital toolbox developed for Daikin professionals with the aim to assist in providing the best fit solution for your customers homes. With this tool you can configure your installation, create custom made piping & wiring diagrams, set the configuration on your installation and much more.





Heating Solutions Navigator

- Do the radiator test
- Fan-coil selection
- Simplified Heat load
- Room by Room heat load
- Commissioning assistant
- Equipment list
- Piping & wiring
- Solar
- Underfloor heating
- Pipe sizing
- Literature
- Economic viability study
- Configuration
- Commissioning

e-Care Mobile App

- Commissioning assistant
- Commissioning
- e-Doctor
- Spareparts ordering
- System status notifications

Stand By Me

- Configuration
- Commissioning
- Warranty extension
- System status notifications

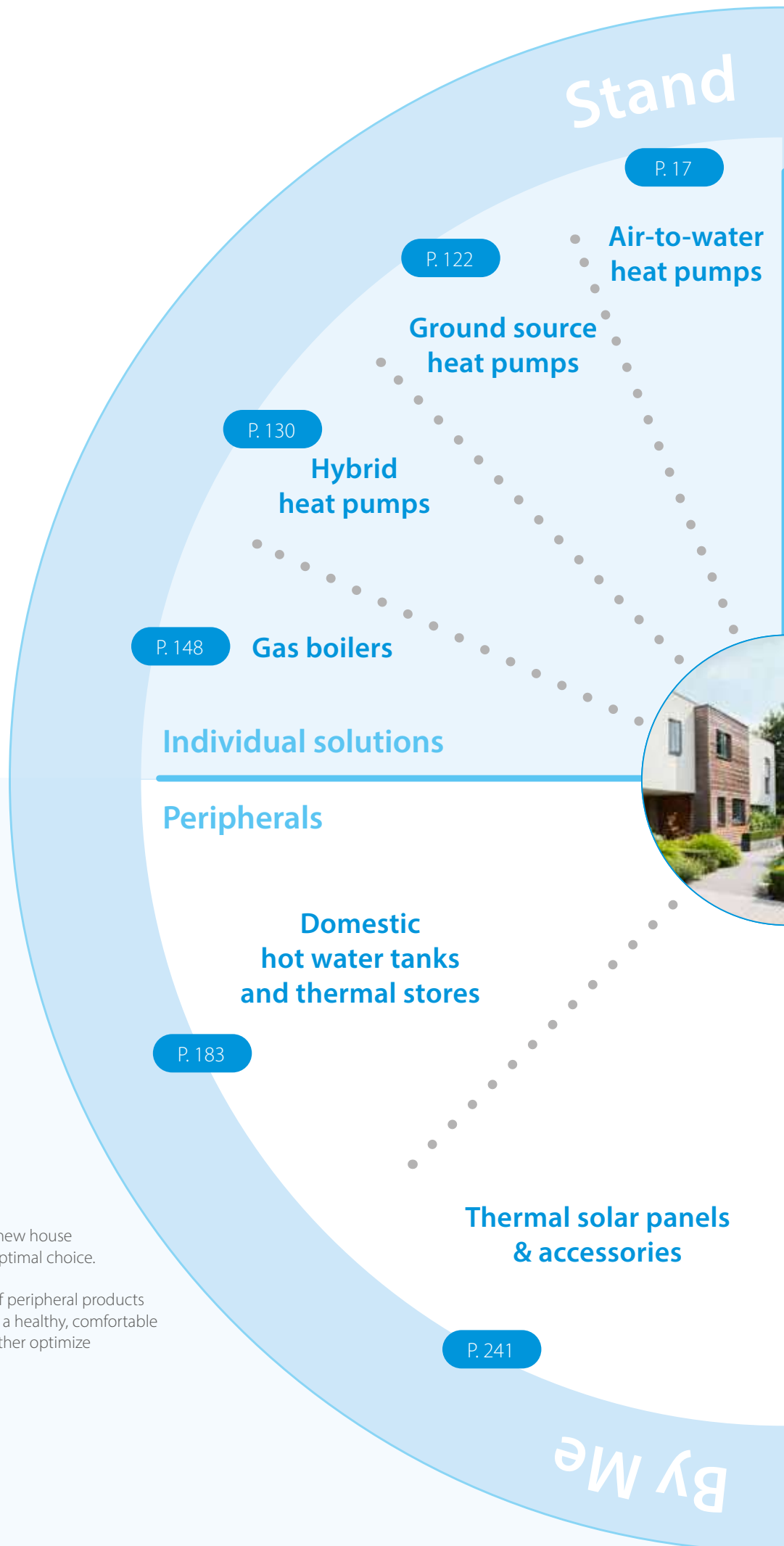
Onecta app

- Warranty extension
- Maintenance
- Remote control
- Appointment scheduler

Residential heating

Whether you're renovating or building a new house or apartment, a Daikin heat pump is an optimal choice.

Our heat pumps integrate with a range of peripheral products to provide a custom solution that creates a healthy, comfortable climate year-round while helping you further optimize the efficiency of your heating system.







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DAIKIN ALTHERMA 3 R

4-6-8 kW



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DAIKIN ALTHERMA 3 H MT & HT

MT: 08-10-12 / HT: 14-16-18 kW

Air-to-water
Mid to high temperature



Heating
Cooling
DHW

HEAT

Heating
Cooling
DHW

Heating
Cooling
DHW



DAIKIN ALTHERMA 3 GEO

P. 122

Ground source
Gas hybrid



DAIKIN ALTHERMA R HYBRID

P. 134

Individual solutions

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.

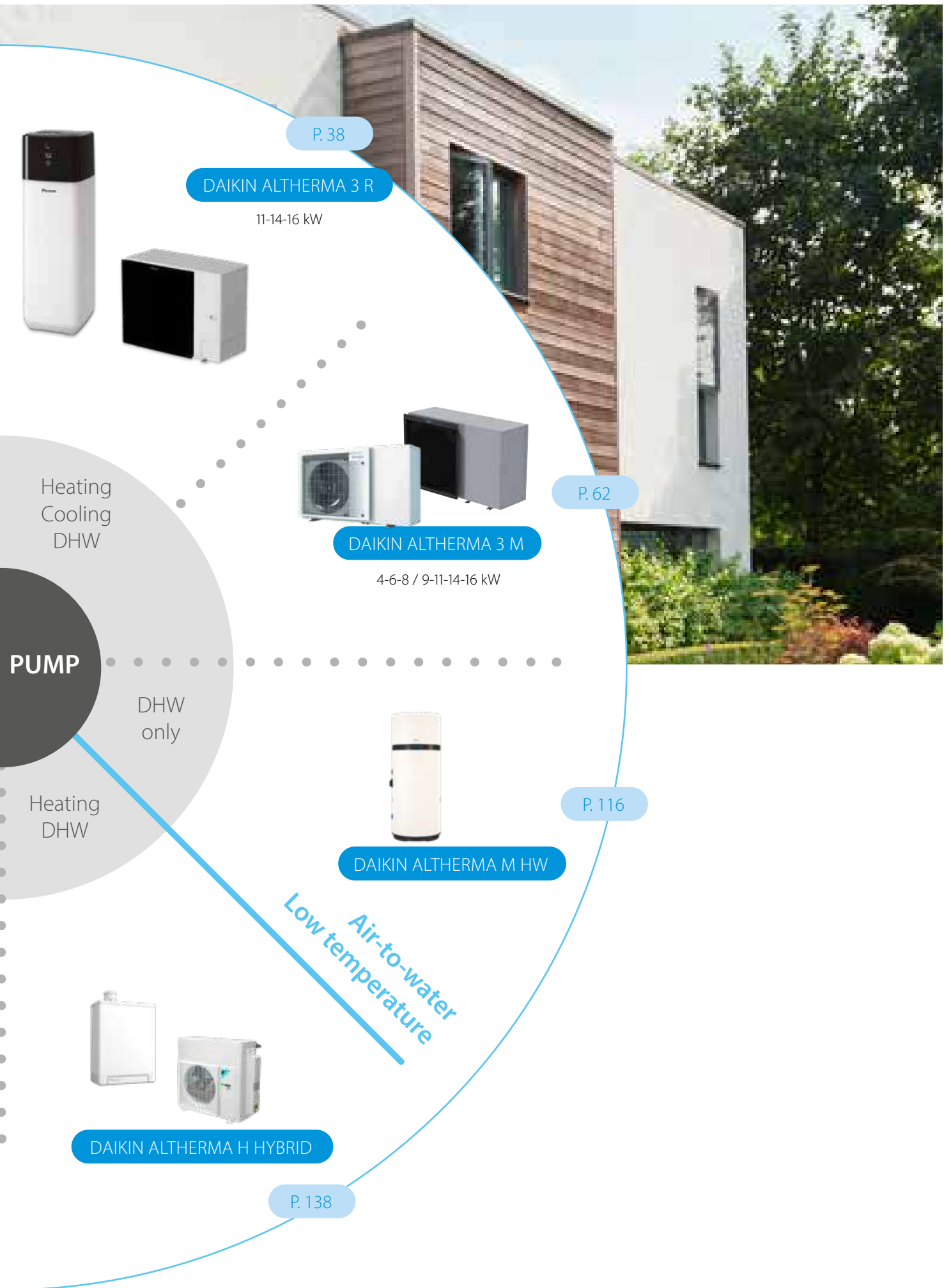




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Daikin Altherma 3 R

powered by Bluevolution with R-32 refrigerant

Why choose Daikin Altherma 3 R?

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



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 Daikin Residential Controller 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

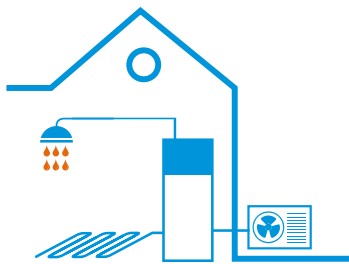
 Perfect fit for

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 Daikin Residential Controller app
- › Voice control available



Daikin Altherma 3 R ECH₂O

Floor standing unit with integrated ECH₂O 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 Daikin Residential Controller app
- › Voice control available

Daikin Altherma 3 R F

floor standing unit with integrated domestic hot water tank

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

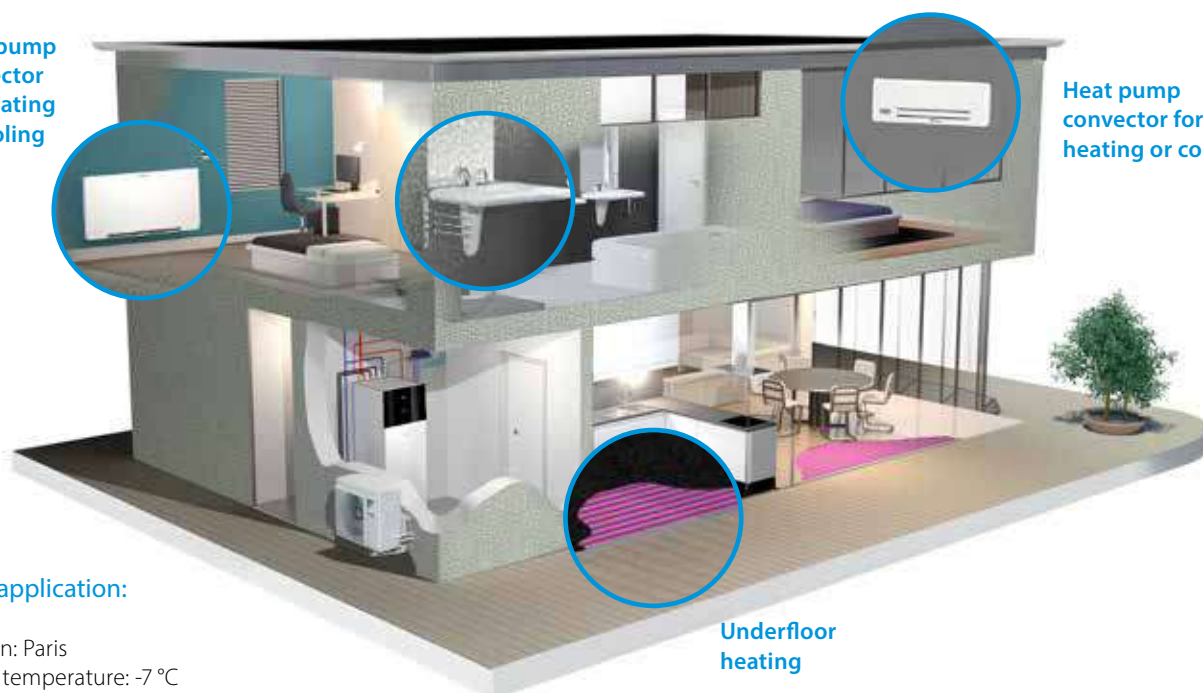
The Daikin Altherma 3 floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for new build and low energy houses.

All in one system to save installation space and time

- › A combined stainless steel domestic hot water tank of 180 or 230 L and heatpump ensures a faster installation compared to traditional systems
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 3, 6, 9 kW
- › Dedicated Bi-Zone models allowing temperature monitoring for 2 zones connect underfloor heating to radiators for optimise efficiency

Domestic hot water

Heat pump convector for heating or cooling



Heat pump convector for heating or cooling

Underfloor heating

Typical application:

- › Location: Paris
- › Design temperature: -7 °C
- › Heat load: 7 kW
- › Heating off temperature: 16 °C

All-in one design

Reduces the installation footprint and height

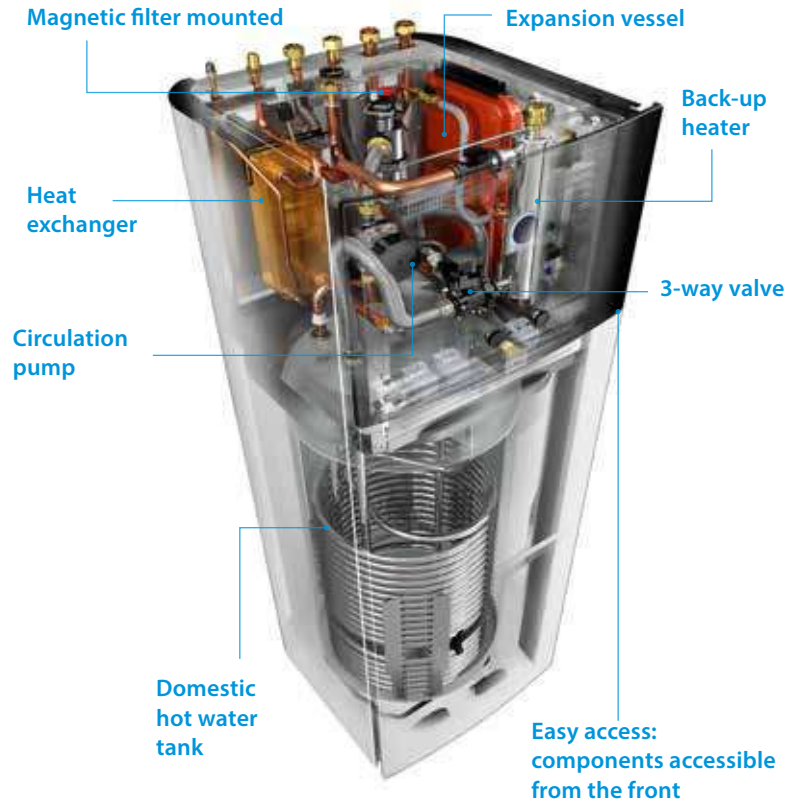
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances.

For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.

With an installation height of 1.65 m for a 180 L tank and 1.85 m for a 230 L tank, the required installation height is less than 2 m.

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



Advanced user interface



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 occurred.

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!

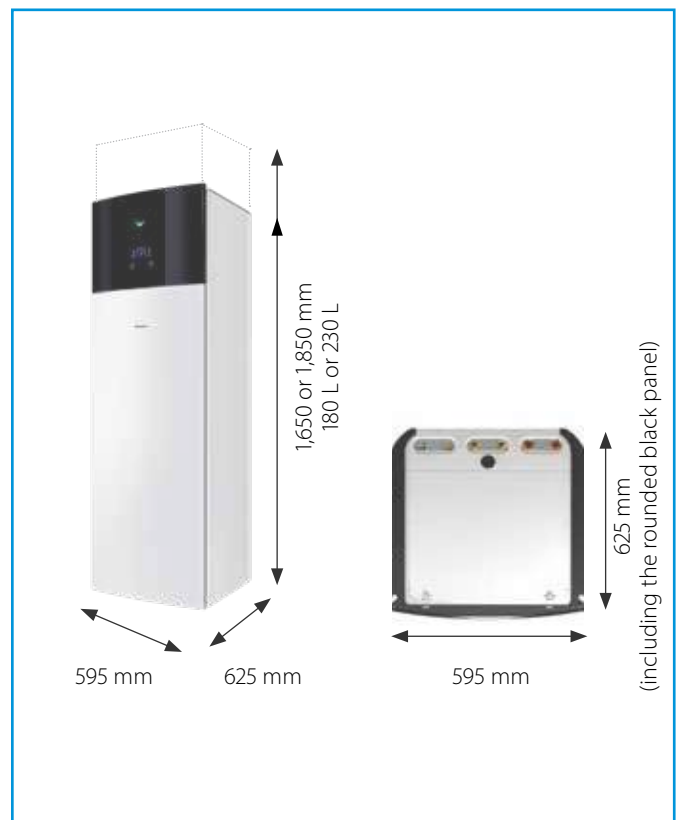
Easy operation

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.

Integrated indoor unit



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



BRC1HHDW



EHVH-E6V



ERGA-EV(H)(7)



up to

A+++





A+

65 °C

R-32



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

Efficiency data				EHVH + ERGA		04S18E6V + 04EV		04S23E6V + 04EV		08S18E6VE/9W + 06EVH		08S23E6VE/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	L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)		%		125	133	125	133	125	133	125	133	125	133	125	133
	Water heating energy efficiency class					A+											
Indoor Unit				EHVH		04S18E6V		04S23E6V		08S18E6VH/E9WH		08S23E6VH/E9WH		08S18E6VH/E9WH		08S23E6VH/E9WH	
Casing		Colour				White + Black											
		Material				Resin / Sheet metal											
Dimensions		Unit	Height x Width x Depth		mm	1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625	
Weight		Unit			kg	119		128		119		128		119		128	
		Water volume		l		180		230		180		230		180		230	
Tank	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	Height x Width x Depth		mm	740 x 884 x 388											
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: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 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



BRC1HHDK



EHVX-E6V



ERGA-EV(H)(7)



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





up to

A+++



A+



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)			
	Average climate water outlet 55 °C	General	SCOP		3.29				3.28				3.35				
			ηs (Seasonal space heating efficiency)	%	129				128				131				
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class						A++								
			SCOP		4.54				4.52				4.61				
			ηs (Seasonal space heating efficiency)	%	179				178				181				
			Seasonal space heating eff. class						A+++								
	General	Declared load profile			L		XL		L		XL		L		XL		
	Average climate	ηwh (water heating efficiency)	%	127	125	134	133	125	133	125	133						
					A+												
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	Height x Width x Depth		mm	1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625	
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	Height x Width x Depth		mm	740 x 884 x 388											
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: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 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



BRC1HHDS



EHVZ-E6V



ERGA-EV(H)(7)



up to

A+++



A+

65 °C

R-32



011-IW0218 → 222

Efficiency data				EHVZ + ERGA	04S18E6V + 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)			
COP						5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)				4.60 (1) / 3.50 (2)			
<div>Space heating</div>	<div>Average climate water outlet 55 °C</div>	General	SCOP				3.26				3.32				
			η _{sp} (Seasonal space heating efficiency)	%			127				130				
			Seasonal space heating eff. class				A++								
	<div>Average climate water outlet 35 °C</div>	General	SCOP		4.48		4.47				4.56				
			η _{sp} (Seasonal space heating efficiency)	%			176				179				
			Seasonal space heating eff. class				A+++								
<div>Domestic hot water heating</div>	General	Declared load profile					L		XL		L		XL		
	Average climate	η _{wh} (water heating efficiency)			%	125		133		125		133			
	Climate	Water heating energy efficiency class					A+								
Indoor Unit				EHVZ	04S18E6V		08S18E6V/E9W		08S23E6V/E9W		08S18E6V/E9W		08S23E6V/E9W		
Casing	Colour					White + Black									
	Material					Resin / Sheet metal									
Dimensions	Unit	Height x Width x Depth			mm	1,650 x 595 x 625		1,850 x 595 x 625		1,650 x 595 x 625		1,850 x 595 x 625			
Weight	Unit				kg	125		133		125		133			
Tank	Water volume			l	180		230		180		230				
	Maximum water temperature			°C	70		70		70		70				
	Maximum water pressure			bar	10		10		10		10				
	Corrosion protection				Pickling		Pickling		Pickling		Pickling				
Operation range	Heating	Ambient	Min.~Max.	°C	5~30		5~30		5~30		5~30				
		Water side	Min.~Max.	°C	15 ~65		15 ~65		15 ~65		15 ~65				
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35		5~35		5~35		5~35				
		Water side	Max.	°C	70		70		70		70				
Sound power level	Nom.				dBA	42		42		42		42			
Sound pressure level	Nom.				dBA	28		28		28		28			
Outdoor Unit				ERGA	04EV		06EVH				08EVH7				
Dimensions	Unit	Height x Width x Depth			mm			740 x 884 x 388							
Weight	Unit				kg			58.5							
Compressor	Quantity						1								
	Type						Hermetically sealed swing compressor								
Operation range	Cooling	Min.~Max.			°CDB	10~43		10~43		10~43		10~43			
	Domestic hot water	Min.~Max.			°CDB	-25~35		-25~35		-25~35		-25~35			
Refrigerant	Type					R-32		R-32		R-32		R-32			
	GWP					675.0		675.0		675.0		675.0			
	Charge				kg	1.50		1.50		1.50		1.50			
	Charge				TCO:Eq	1.01		1.01		1.01		1.01			
	Control					Expansion valve		Expansion valve		Expansion valve		Expansion valve			
Sound power level	Heating	Nom.		dBA	58	60		62		62		62			
	Cooling	Nom.		dBA	61	62		62		62		62			
Sound pressure level	Heating	Nom.		dBA	44	47		49		49		49			
	Cooling	Nom.		dBA	48	49		50		50		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.



Floor standing unit with integrated ECH₂O tank

The Daikin Altherma low temperature split integrated ECH₂O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling.

Intelligent storage management

- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500 l tank only)
- › Electronic management of both heat pump and ECH₂O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- › Achieves the highest standards for water sanitation
- › Uses more renewable energy with solar connection

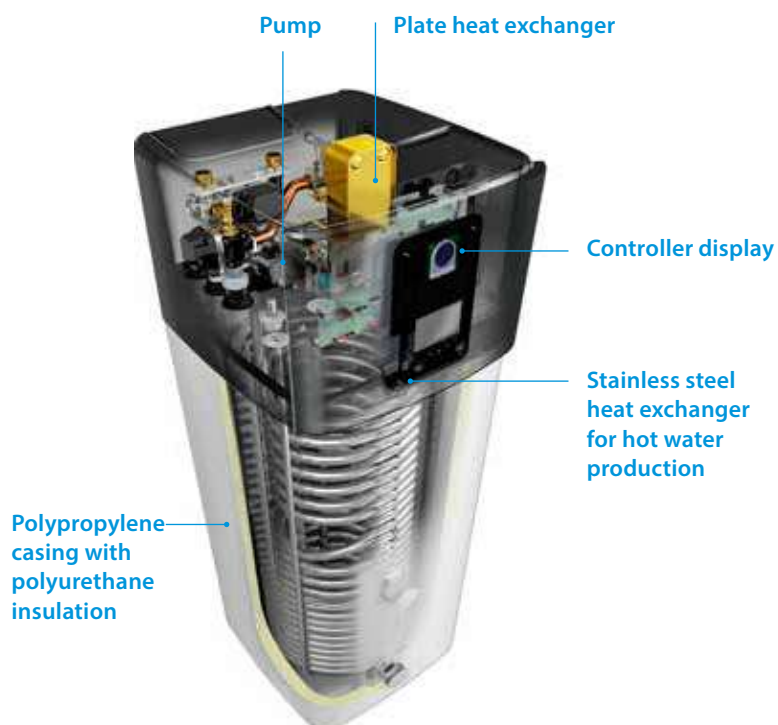
Innovative and high-quality tank

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

Combinable with other heat sources

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

ECH₂O



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 occurred.

Quick to configure

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

Easy operation

The user interface works really fast thanks to its icon-based menus.

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.

ECH₂O 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

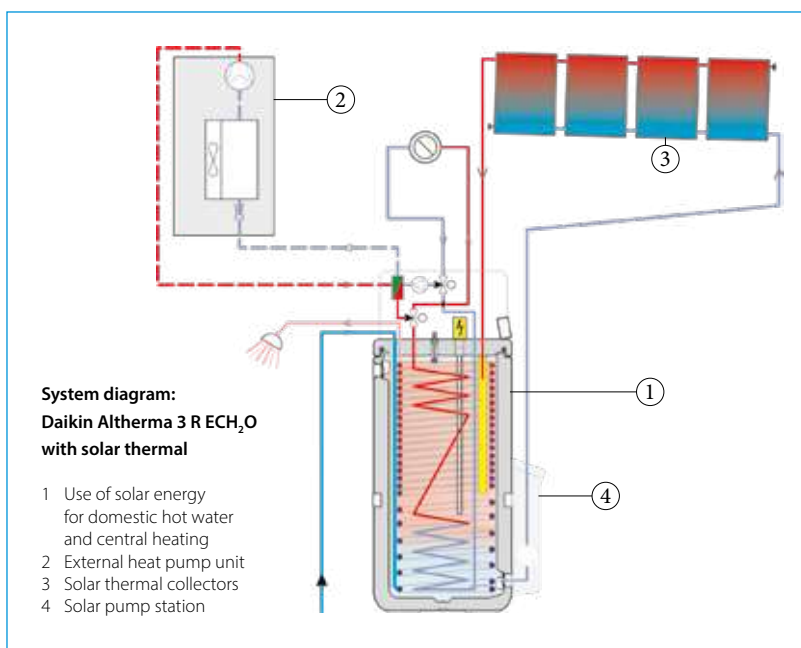
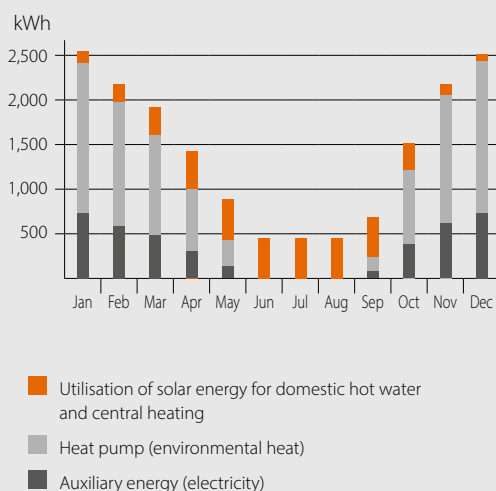
Pressureless (drain-back) solar system (EHS_H-E, EHS_X-E)

- › 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 (EHS_HB-E, EHS_XB-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



Daikin Altherma 3 R ECH₂O

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 photovoltaic solar panels to provide energy for your heat pump
- › Compatible with the Onecta app
- › Voice control available



BRC1HHDW



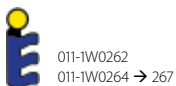
ERGA-EV(H)(7)



EHS-E



up to



011-1W0262
011-1W0264 → 267

Efficiency data				EHS + 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)		
<div>Space heating</div>	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+++					
<div>Domestic hot water heating</div>	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				EHS	04P30E	08P30E	08P50E	08P30E	08P50E	
Casing	Colour			Traffic white (RAL9016) / Traffic black (RAL9017)						
	Material			Impact resistant polypropylene						
Dimensions	Unit	Height x Width x Depth			mm	1,892 x 594 x 644		1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812
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	Height x Width x Depth			mm	740 x 884 x 388				
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:Eq	1.01				
	Control					Expansion valve				
Sound power level	Heating	Nom.		dBA	58	60		62		
	Cooling	Nom.		dBA	61	62		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 ECH₂O

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



BRC1HHDK



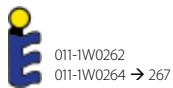
ERGA-EV(H)(7)



EHSB-E



up to



011-1W0262
011-1W0264 → 267

Efficiency data				EHSB + 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)				
<div>Space heating</div>	Average climate water outlet 55 °C	General	SCOP				3.26				3.32					
			η _s (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			
			η _s (Seasonal space heating efficiency)		%				176				179			
			Seasonal space heating eff. class				A+++									
<div>Domestic hot water heating</div>	General	Declared load profile					L		XL		L		XL			
	Average climate	η _{wh} (water heating efficiency)			%		118		125		118		125			
	Water heating energy efficiency class					A+										
Indoor Unit				EHSB		04P30E		08P30E		08P50E		08P30E		08P50E		
Casing	Colour					Traffic white (RAL9016) / Traffic black (RAL9017)										
	Material					Impact resistant polypropylene										
Dimensions	Unit	Height x Width x Depth			mm		1,892 x 594 x 644		1,905 x 792 x 812		1,892 x 594 x 644		1,905 x 792 x 812			
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	Height x Width x Depth			mm				740 x 884 x 388							
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 3 R ECH₂O

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 photovoltaic solar panels to provide energy for your heat pump
- › Compatible with the Onecta app
- › Voice control available



BRC1HHDS



ERGA-EV(H)(7)





EHSX-E



up to



011-1W0262 → 267

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		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				EHSX	04P30E	04P50E	08P30E	08P50E	08P30E	08P50E	
Casing	Colour				Traffic white (RAL9016) / Traffic black (RAL9017)						
	Material				Impact resistant polypropylene						
Dimensions	Unit	Height x Width x Depth		mm	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812	
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	Height x Width x Depth		mm	740 x 884 x 388						
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/eq	1.01					
Sound power level	Heating	Nom.		dBA	58		60		62		
		Nom.		dBA	61		62				
	Cooling	Nom.		dBA	44		47		49		
		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 ECH₂O

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



BRCIHHDW



ERGA-EV(H)(7)



EHSXB-E



up to

A+++





A+

65 °C

R-32



011-IW0262 → 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		
			η _s (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		
			η _s (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	η _{wh} (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	Height x Width x Depth		mm	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812	1,892 x 594 x 644	1,905 x 792 x 812	
Weight	Unit			kg	79	110	79	110	79	110	
Tank	Water volume			l	294	477	294	477	294	477	
	Maximum water temperature				°C						
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.	dB(A)	39				
Outdoor Unit				ERGA	04EV		06EVH		08EVH7		
Dimensions	Unit	Height x Width x Depth		mm	740 x 884 x 388						
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 _{Eq}	1.01						
	Control				Expansion valve						
Sound power level	Heating	Nom.		dB(A)	58		60		62		
	Cooling	Nom.		dB(A)	61				62		
Sound pressure level	Heating	Nom.		dB(A)	44		47		49		
	Cooling	Nom.		dB(A)	48		49		50		
Power supply	Name/Phase/Frequency/Voltage				Hz/V						
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 W

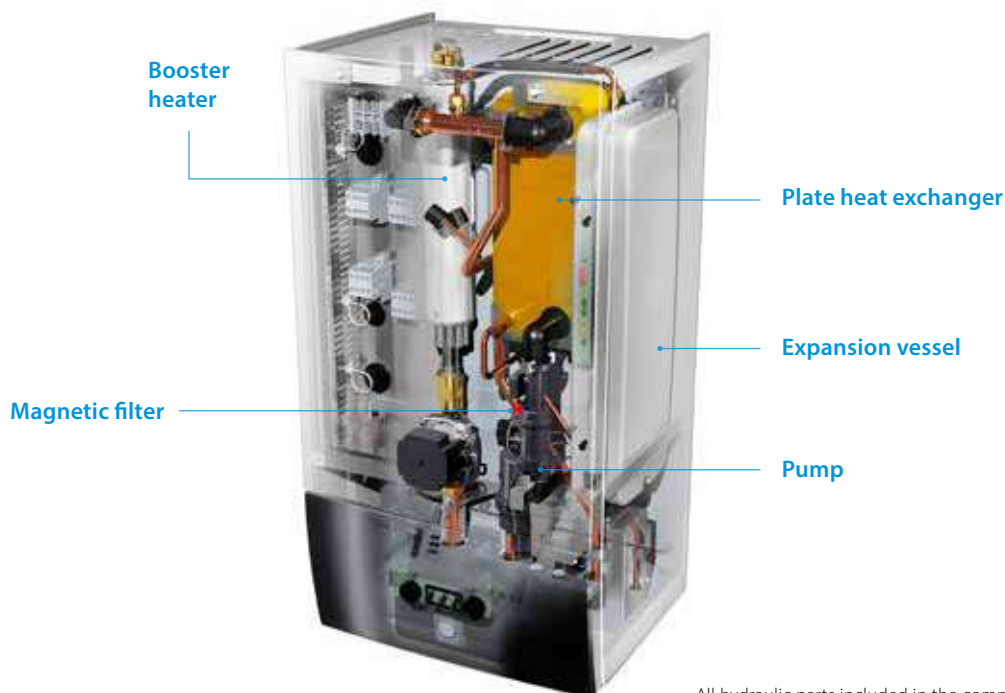
Wall mounted unit

Why choose Daikin wall mounted unit?

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

High flexibility for installation and domestic hot water connection

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends in with other household appliances
- › Combine with a stainless steel or ECH₂O thermal store



All hydraulic parts included in the compact wall mounted unit.

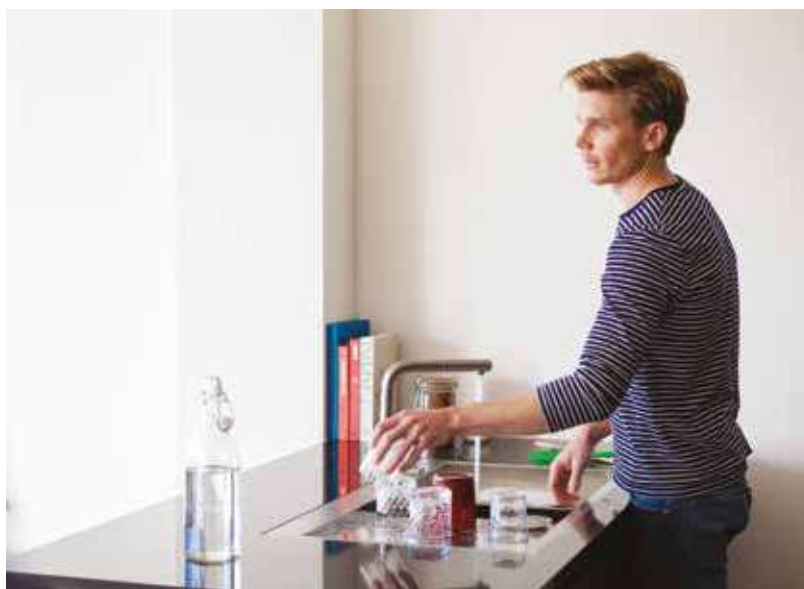
Flexibility in providing domestic hot water

If the end user only requires hot water and installation height is limited, a separate tank can provide the required installation flexibility. At the side of our standard stainless steel tanks, we propose the ECH₂O thermal stores.

ECH₂O thermal store range: additional hot water comfort

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

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



Heat pumps



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

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 ECH₂O 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)



up to


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)			
<div>Space heating</div> <div></div>	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+++								
Indoor Unit				EHBH		04E6V		08E6V		08E9W		08E6V		08E9W	
Casing		Colour								White + Black					
		Material								Resin, sheet metal					
Dimensions		Unit		Height x Width x Depth		mm				840 x 440 x 390					
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		Height x Width x Depth		mm				740 x 884 x 388					
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				TCO2Eq				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 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 ECH₂O thermal store
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Compatible with the Onecta app
- › Voice control available



BRC1HHDK



EHBX-E6V




ERGA-EV(H)(7)



up to


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

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)			
<div>Space heating</div>	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+++											
Indoor Unit				EHBX		04E6V		08E6V		08E9W		08E6V		08E9W	
Casing	Colour									White + Black					
	Material									Resin, sheet metal					
Dimensions	Unit	Height x Width x Depth		mm						840 x 440 x 390					
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	Height x Width x Depth		mm				740 x 884 x 388							
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: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		Bi
			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	●	●	●	●	●
	Wireless room thermostat	EKRTR1	●	●	●	●	●
	Wired digital thermostat	EKRTWA	●	●	●	●	●
	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	EKCC8-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 EKRTR 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	EKHYPART					
	Third party tank kit	EKHYPART2					
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	EKRPIHBAA	● (6)	● (6)	● (6)	● (6)	● (6)
	Demand PCB	EKRPIAHTA	●	●	●	●	●
	PC USB cable	EKPCCAB4	●	●	●	●	●
	Relay smart grid	EKRESLG	●	●	●	●	●
	Corner pipe bend kit	EKHVTC	●	●	●	●	
Dedicated ECH ₂ O 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 EKRTR(1).
- (4) EKHY3PART2 can be used if you have a tank in which you can't insert a thermistor.

	ECH ₂ O				Wall mounted			
zone	Standard		Bivalent		Heating only		Reversible	
EHVZ08S18E6V	EHS04P30E	EHS08P30E	EHSB04P30E	EHSB08P30E	EBH04E6V	EBH08E6V	EBX04E6V	EBX08E6V
EHVZ08S23E6V		EHS08P50E		EHSB08P50E		EBH08E9W		EBX08E9W
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)				
	•	•	•	•				
			•	•				
	•	•		•				
	•	•	•	•				
	•	•	•	•				

(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 6TI-model applicable). EKEBCUCO*AF is needed to connect the backup heater to the main unit.



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

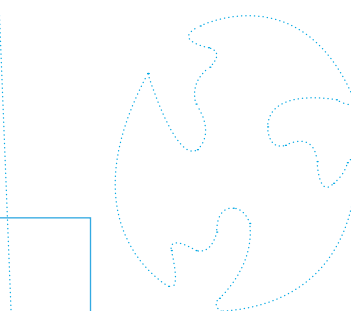
A redesigned casing

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.



1,100 mm



Check out the
improved compactness!

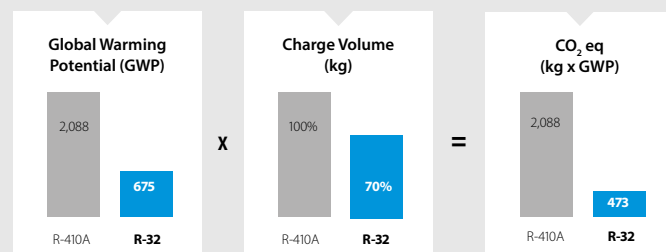


Running on refrigerant R-32

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 CO₂ emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO₂ emission targets.

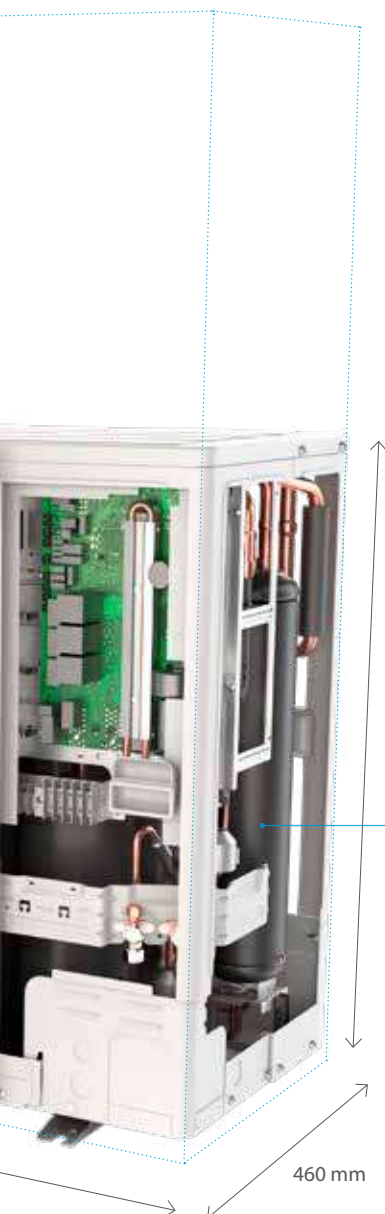
Reduced environmental impact: CO₂eq > reduced by 75%

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



R-32

BLUEvolution



870 mm

460 mm

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.



Improved design



Meeting modern society expectations

Outside, the outdoor unit blends in thanks to its black front grille. The horizontal lines of the grille hides the fan from view, making it more discreet.

In Europe, design has a huge importance. That's why, at Daikin, we have developed a new design line for outdoor units.

Customers invest in their property to make it look better and more sustainable, heat pumps must thick all boxes.



Check out the improved design!





Discretion and peace of mind

As a third generation Daikin Altherma heat pump, indoor units gather all the installation and design improvements, rewarded in 2018 by RedDot, iF and Plus X awards.

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!



reddot award 2018
winner



reddot award 2018
winner



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

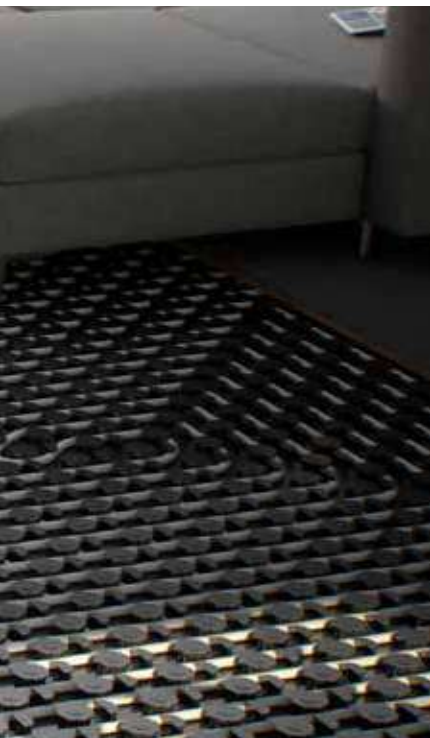
Indeed, Daikin Altherma 3 R is the world first high capacity R-32 refrigerant split heat pump to provide cooling, next to heating!

A patent is also pending for the plate heat 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



Daikin Altherma 3 R F

Floor standing unit with integrated tank

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

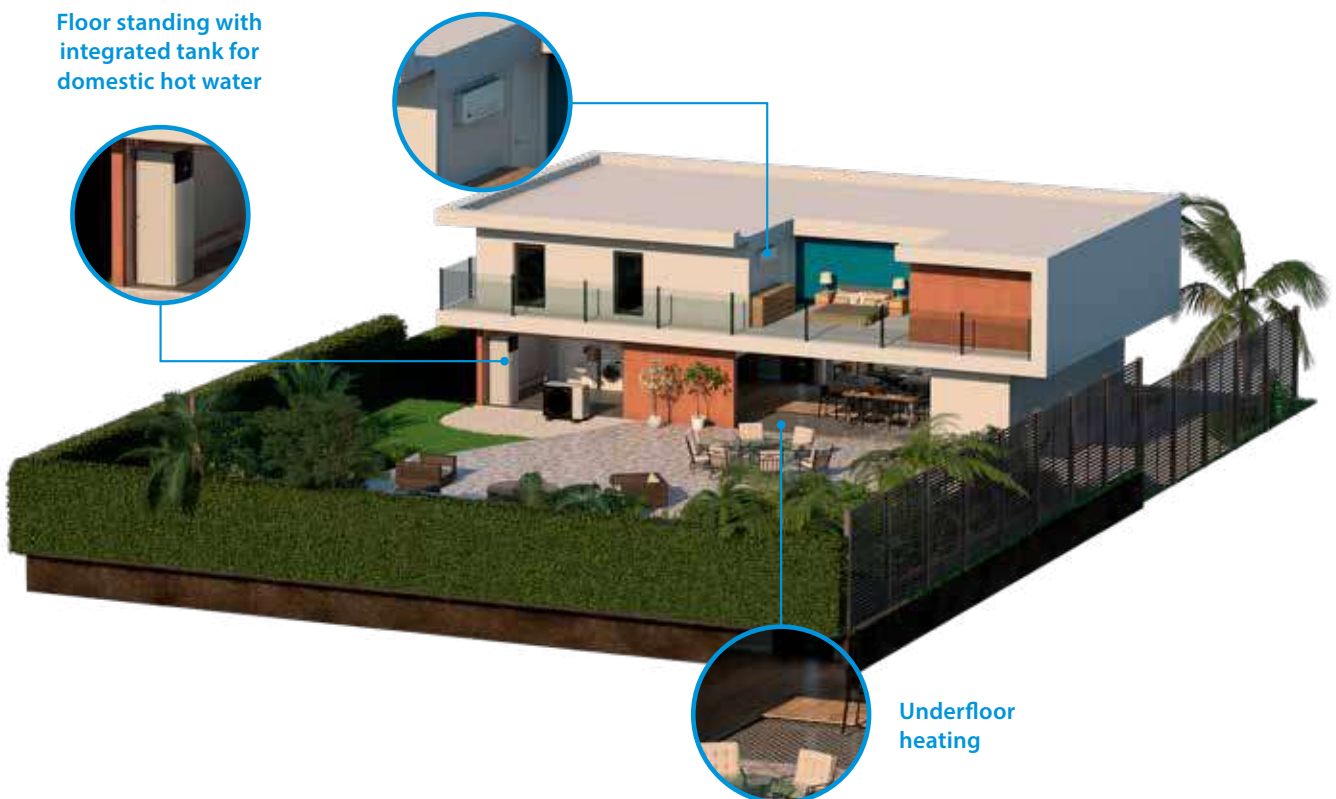
The Daikin Altherma 3 floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for renovation or large new built.

All in one system to save installation space and time

- › A combined stainless steel domestic hot water tank of 180 or 230 L and heatpump ensures a faster installation compared to traditional systems.
- › Inclusion of all hydraulic components means no third party components are required.
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 634 mm
- › Integrated back-up heater choice of 6, 9 kW models are available
- › Dedicated bi-zone models allowing temperature monitoring for 2 zones.

Heating and cooling

Floor standing with integrated tank for domestic hot water



Underfloor heating

All-in one design

Reduces the installation footprint and height

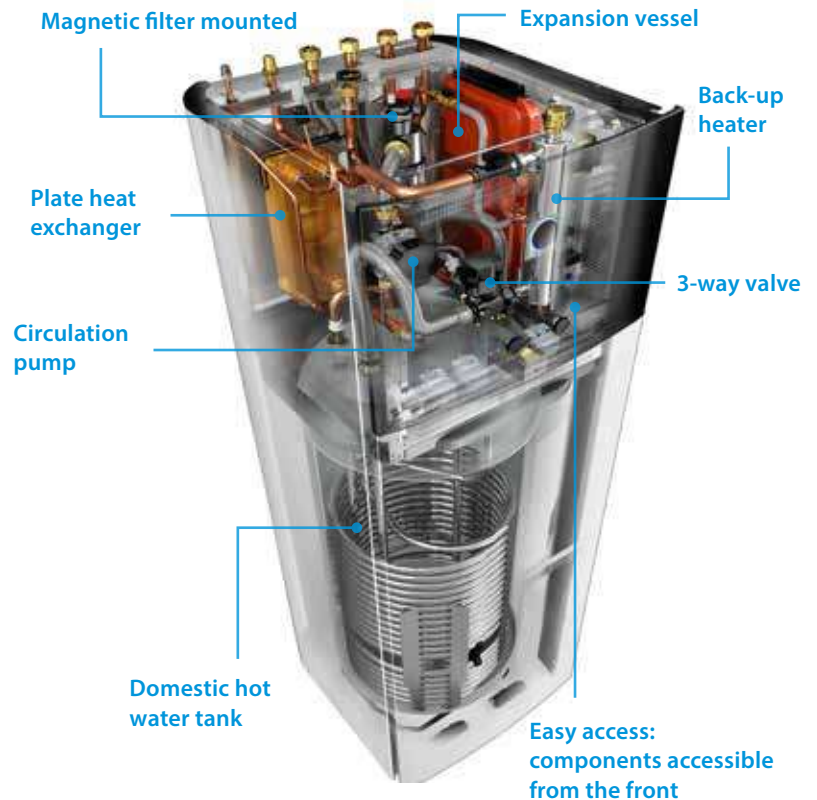
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 634 mm, the integrated indoor unit has a similar footprint when compared to other household appliances.

For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.

With an installation 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 of the integrated indoor unit is emphasised by its sleek design and modern look, easy blending in with other household appliances.



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 occurred.

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!

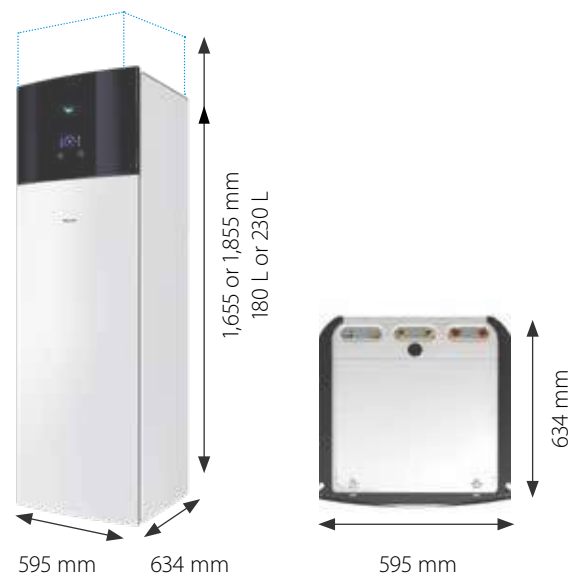
Easy operation

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.

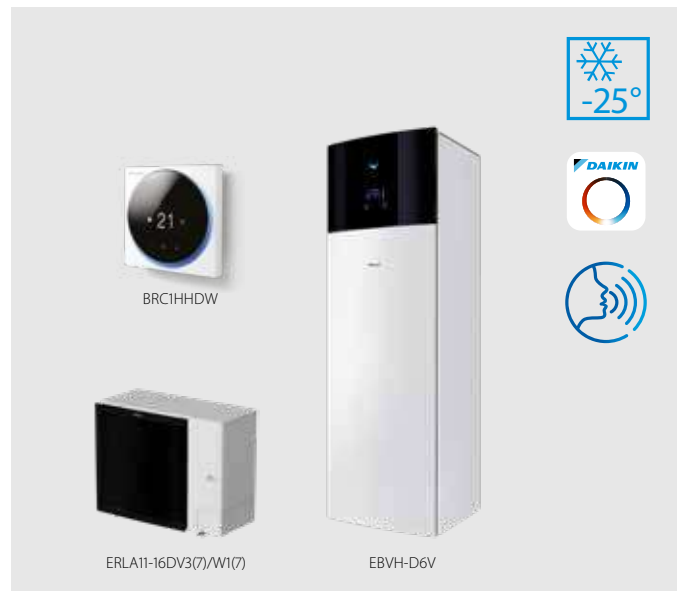
Integrated indoor unit





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
- › Heat pump operation down to -25°C



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

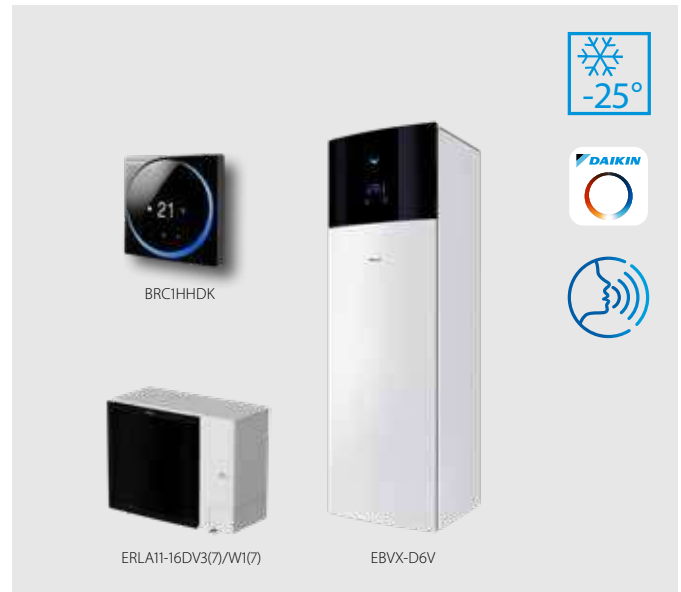
Efficiency data				EBVH + ERLA	11S18D6V/9W + 11DV/W	11S23D6V/9W + 11DV/W	16S18D6V/9W + 14DV/W	16S23D6V/9W + 14DV/W	16S18D6V/9W + 16DV7/W7	16S23D6V/9W + 16DV7/W7
 Space heating	Average climate water outlet 55°C	General	SCOP	%	3.23	126	3.22		130	
			ηs (Seasonal space heating efficiency)							
		Seasonal space heating eff. class								
	Average climate water outlet 35°C	General	SCOP	%	4.63	182	4.60	181	4.61	
ηs (Seasonal space heating efficiency)										
		Seasonal space heating eff. class								
		Declared load profile			L	XL	L	XL	L	XL
 Domestic hot water heating	Average climate	COPdhw	%	2.73	2.63	2.73	2.63	2.73	2.63	
		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	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595x634	1,655 x 595 x 634	1,655 x 595x634	1,855 x 595 x 634	
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			870 x 1,100 x 460				
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.

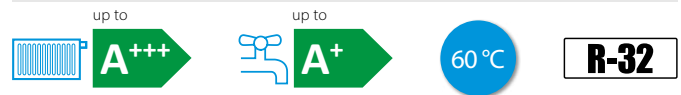
Daikin Altherma 3 R F



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
- › Heat pump operation down to -25°C



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



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
	Average climate water outlet 55°C	General	SCOP	%	3.27		3.26		3.35	
			ηs (Seasonal space heating efficiency)	%	128		131			
	Average climate water outlet 35°C	General	Seasonal space heating eff. class		A++					
			SCOP	%	4.72		4.68			
	Average climate	General	ηs (Seasonal space heating efficiency)	%	186		184			
			Seasonal space heating eff. class		A+++					
	Declared load profile	COPdhw			L	XL	L	XL	L	XL
			ηwh (water heating efficiency)	%	2.73	2.63	2.73	2.63	2.73	2.63
Water heating energy efficiency class				116	109	116	109	116	109	
				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		1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595x 634	1,855 x 595 x 634
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		870 x 1,100 x 460					
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 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
- › Heat pump operation down to -25°C



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

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	
	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+++					
	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	1,655 x 595 x 634	1,855 x 595 x 634	1,655 x 595 x 634	1,855 x 595x634	1,655 x 595x634	1,855 x 595 x 634
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	870 x 1,100 x 460					
Weight	Unit				kg	101					
Compressor	Quantity					1					
	Type					Hermetically sealed swing inverter compressor					
Operation range	Heating	Min. ~ Max.			°CDB	-25 ~ 35					
		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.



Heat pumps

Daikin Altherma 3 R ECH₂O

Floor standing unit with integrated ECH₂O tank

The Daikin Altherma low temperature split integrated ECH₂O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling

Intelligent storage management

- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
- › Electronic management of both heat pump and ECH₂O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- › Achieves the highest standards for water sanitation
- › Uses more renewable energy with solar connection

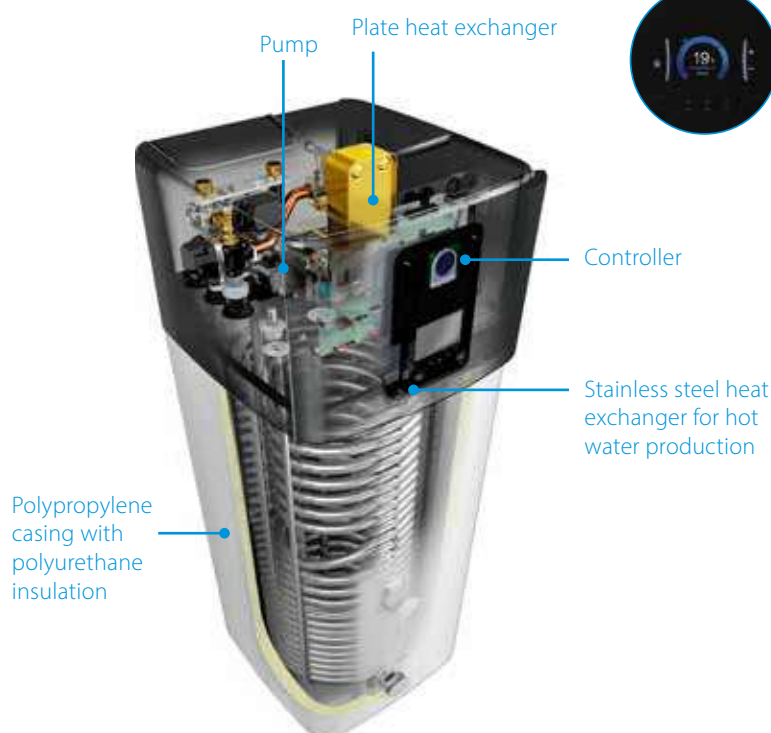
Innovative and high-quality tank

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

Combinable with other heat sources

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

ECH₂O



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 occurred.

Quick to configure

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

Easy operation

The user interface works really fast thanks to its icon-based menus.

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.

ECH₂O thermal store range: additional hot water comfort

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

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

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

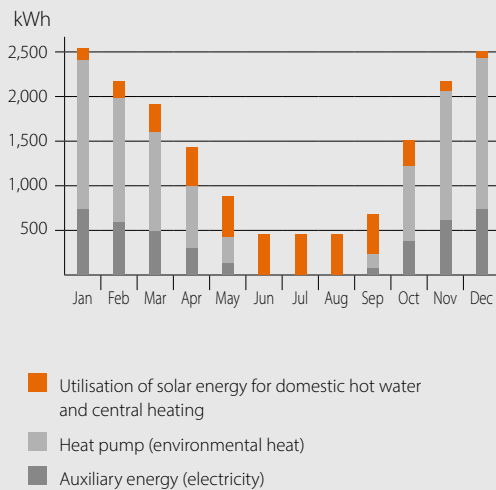
Pressureless (drain-back) solar system EBSH-D, EBSX-D

- › 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

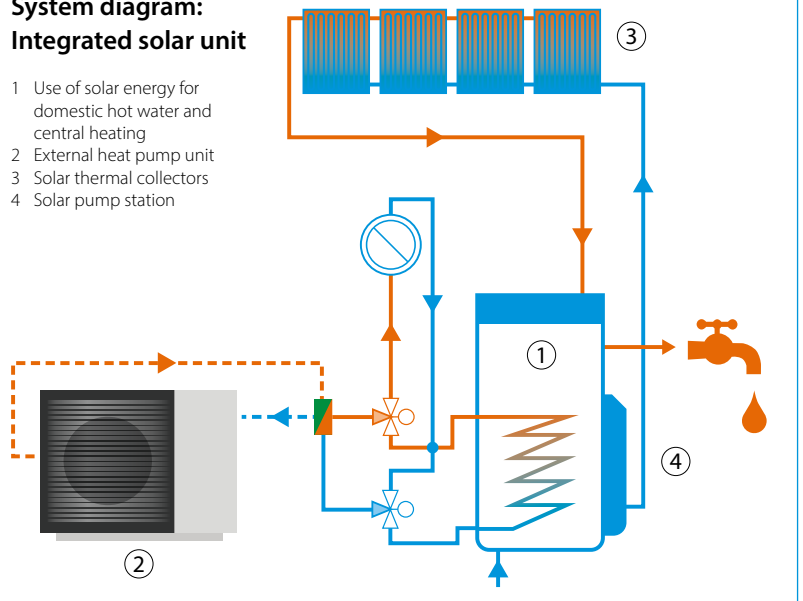
- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed

**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 ECH₂O

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
- › Heat pump operation down to -25°C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



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	ηs (Seasonal space heating efficiency) %	3.23		3.22		3.32		
			Seasonal space heating eff. class		126		130				
	Average climate water outlet 35°C	General	SCOP	ηs (Seasonal space heating efficiency) %	4.63		4.60		4.61		
			Seasonal space heating eff. class		182	181					
					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					EBSH	11P30D	11P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour					Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material					Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth			mm	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817
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	870 x 1,100 x 460					
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 ECH₂O

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
- › Heat pump operation down to -25°C



011-1W0493
011-1W0494

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		
			η _s (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		
			η _s (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	COP _{dhw}			2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	
		η _{wh} (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		1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	
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		870 x 1,100 x 460						
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		TCO ₂ Eq		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 ECH₂O

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 photovoltaic solar panels to provide energy for your heat pump



011-IW0493
011-IW0494

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		
			η _s (Seasonal space heating efficiency)	%	128				131		
			Seasonal space heating eff. class		A++						
	Average climate water outlet 35°C	General	SCOP	%	4.72		4.68				
			η _s (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	COP _{dhw}			2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	2.73 / 2.75	3.05 / 3.10	
		η _{wh} (water heating efficiency)	%		115 / 116	126 / 128	115 / 116	126 / 128	115 / 116	126 / 128	
		Water heating energy efficiency class			A+						
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		1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	
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		870 x 1,100 x 460						
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		TCO ₂ Eq		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						



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Daikin Altherma 3 R ECH₂O

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
- › Heat pump operation down to -25°C



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	1,893 x 594 x 680	1,910 x 792x817	1,893 x 594 x 680	1,910 x 792 x 817	1,893 x 594 x 680	1,910 x 792 x 817	
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	870 x 1,100 x 460						
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	TCO ₂ Eq			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						

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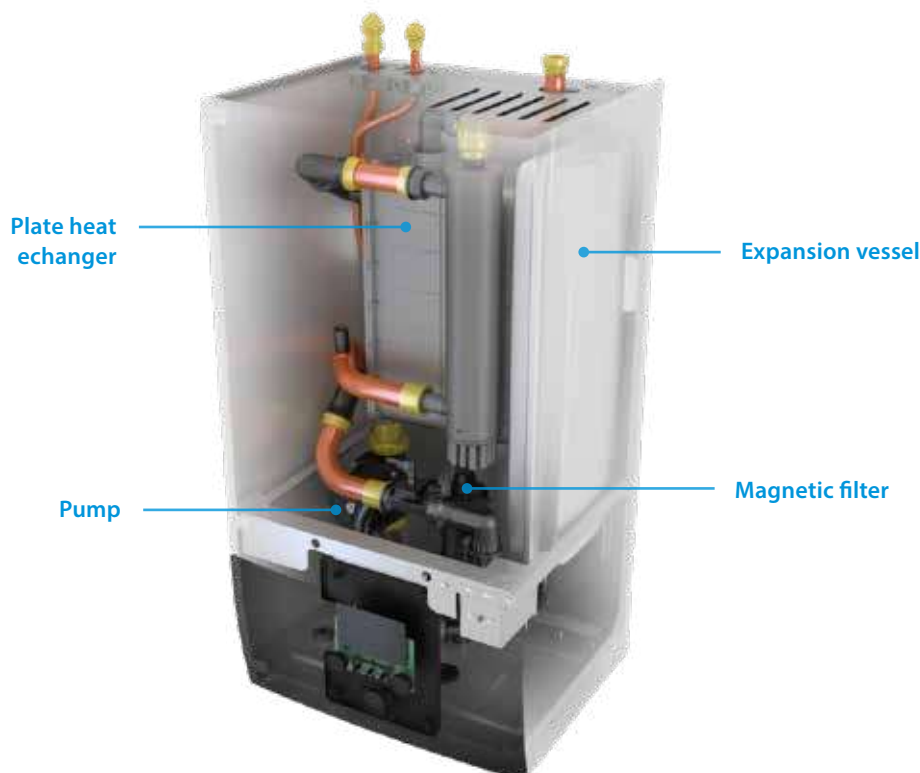
Daikin Altherma 3 R W Wall mounted unit

Why choose Daikin wall mounted unit?

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

High flexibility for installation and domestic hot water connection

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends in with other household appliances
- › Combine with a stainless steel or ECH₂O thermal store



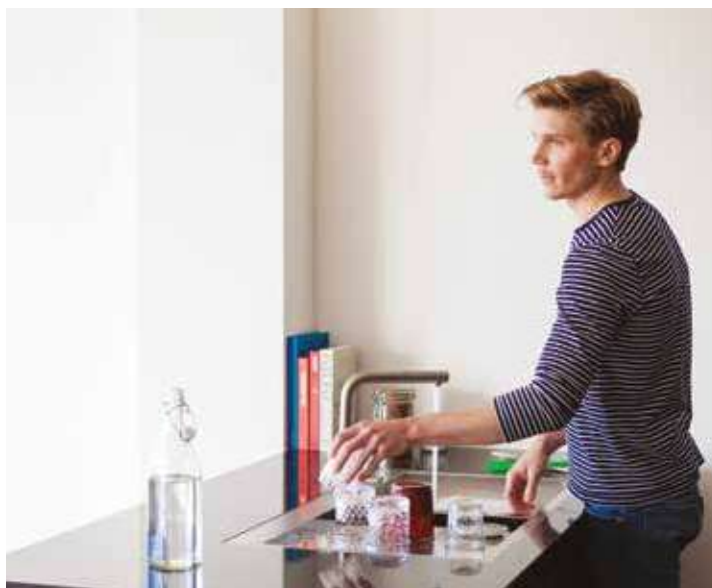
Flexibility in providing domestic hot water

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

ECH₂O thermal store range: additional hot water comfort

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

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



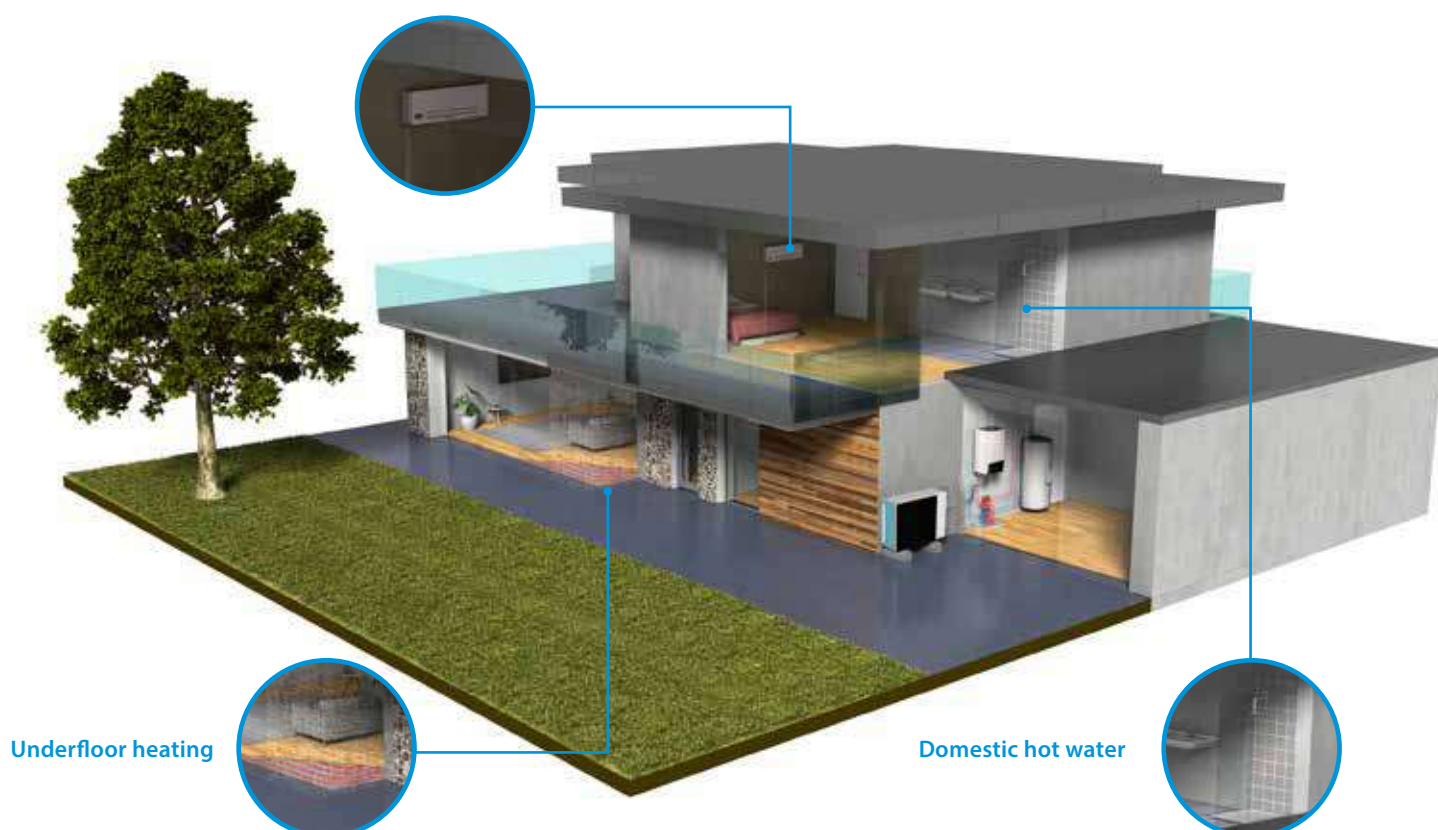
Heat pumps

Flexibility in providing space heating

Daikin Altherma 3 R W 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.

Example of installation with a stainless steel domestic hot water tank.

Heating and cooling



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 ECH₂O thermal store
- › Heat pump operation down to -25°C



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

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				A++				4.61						
			ηs (Seasonal space heating efficiency)		182				181										
			Seasonal space heating eff. class						A+++										
Indoor Unit					EBBH		11D6V		11D9W		16D6V		16D9W		16D6V		16D9W		
Casing	Colour											White + Black							
	Material											Resin, sheet metal							
Dimensions	Unit		HeightxWidthxDepth		mm							840 x 440 x 390							
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							870 x 1,100 x 460							
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						

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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 ECH₂O thermal store
- › Heat pump operation down to -25°C



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

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				
			η _s (Seasonal space heating efficiency)		128		131						
			Seasonal space heating eff. class		A++								
	Average climate water outlet 35°C	General	SCOP	%	4.72		4.68						
			η _s (Seasonal space heating efficiency)		186		184						
			Seasonal space heating eff. class		A+++								
Indoor Unit					EBBX		11D6V	11D9W	16D6V	16D9W	16D6V	16D9W	
Casing	Colour					White + Black							
	Material					Resin, sheet metal							
Dimensions	Unit	HeightxWidthxDepth		mm	840 x 440 x 390								
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	870 x 1,100 x 460								
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		TCO ₂ Eq	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

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	●	●	●	●
	Wireless room thermostats	EKRTR	●	●	●	●
	Wired digital thermostat	EKRTWA	●	●	●	●
	LAN adapter	BRP069A62 <small>(with MMI from v6.8.0)</small>	●	●	●	●
	WLAN module	BRP069A71	●	●	●	●
	WLAN cartridge	BRP069A78	●	●	●	●
	Wired digital thermostat	EKWCTRD11V3	●	●	●	●
	Wired analog thermostat	EKWCTRANIV3	●	●	●	●
	Valve actuator	EKWCVATRIV3	●	●	●	●
	Wired underfloor heating base station	EKWUFHTAIV3	●	●	●	●
	Universal centralised controller	EKCC8-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	● (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 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	EKECDBC02AF				

(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 EKRTR.

	Floor standing integrated ECH ₂ O				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)
					• (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)
•	•	•	•	•	•	•	•	•
• (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)
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•	•	•	•	•	•	•	•	•
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	•	•	•	•				
	• (8)	• (8)	• (8)	• (8)				
	• (8)	• (8)	• (8)	• (8)				
	• (8)	• (8)	• (8)	• (8)				
	•	•	•	•				
			•	•				
	•	•						

(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). EKECBUC01AF is needed to connect the backup heater to the main unit.

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.

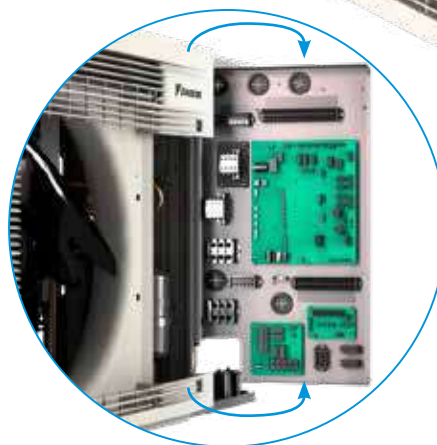
The light grey and seamless casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

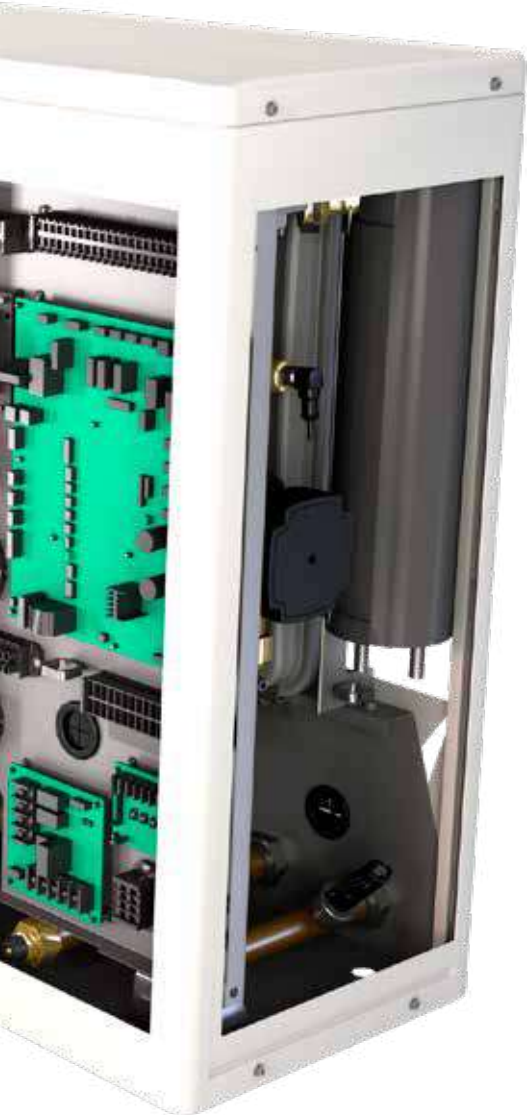
A renewed fan shape

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

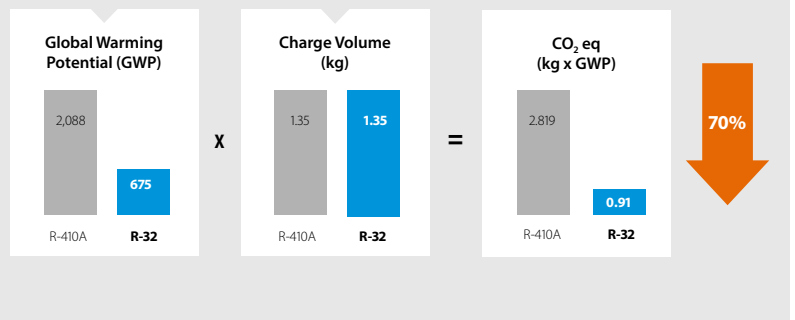
Help installers and commissioning

- › 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 CO₂ 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 CO₂ emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO₂ 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

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...



reddot award 2018
winner



DESIGN
AWARD
2018

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) **NEW**

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

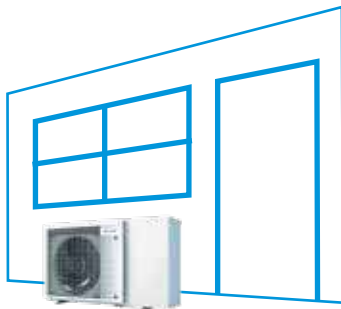
The Daikin Altherma 3 M shows improved performances as well as a wide product range

- › 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

✓ Flexibility in domestic hot water production

- › Combination with stainless steel domestic hot water tank (EKHWS(P)(U)-D)
- › Combination with ECH₂O thermal store EKHWP-(P)B to provide domestic hot water with support from the sun

✓ Fits under a window



✓ 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

✓ Perfect match with any heat emitters

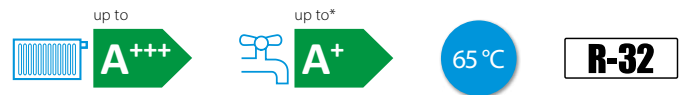
- › Combination with underfloor heating applications
- › Combination with heat pump convectors Daikin Altherma HPC




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



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) SCOP Seasonal space heating eff. class							
				127	129	127	128	130	131	
				3.26	3.29	3.26	3.28	3.32	3.35	
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency) SCOP Seasonal space heating eff. class	A++						
				176	179	176	178	179	181	
				4.48	4.54	4.47	5.52	4.56	4.61	
				A+++						
Casing	Colour			Ivory white						
	Material			Zinc coated low carbon steel						
Dimensions	Unit	HeightxWidthxDepth		mm	770 x 1,250 x 362					
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 - LWA 18°C (DT=5°C), Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (2) Cooling Ta 35°C - LWA 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 ECH₂O 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

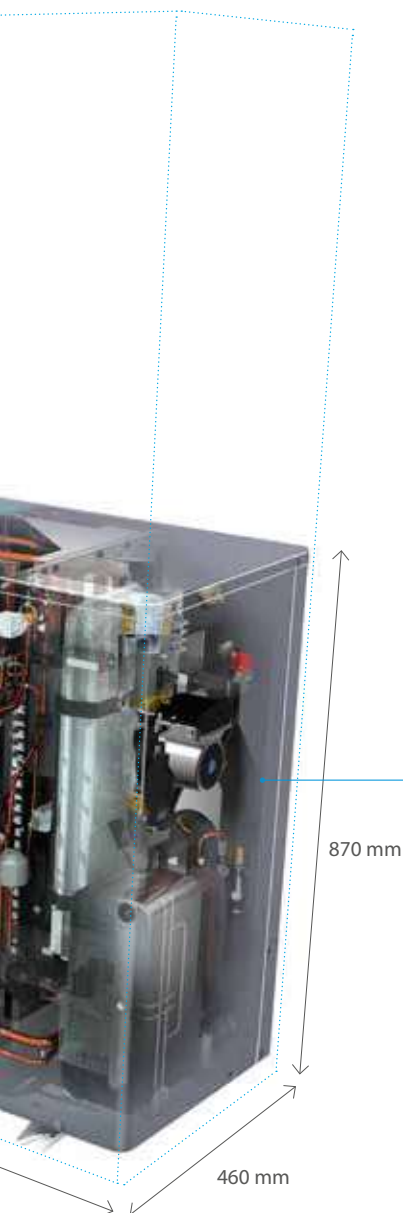
The black front grill made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

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.



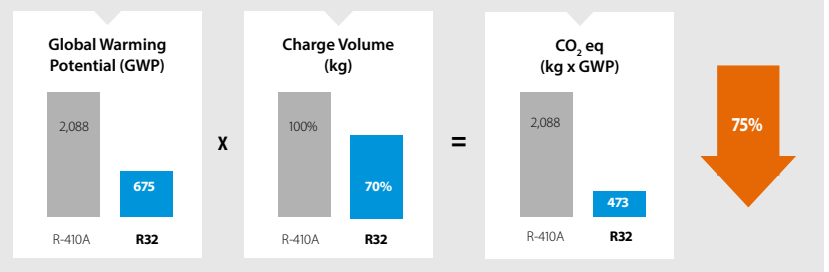


R-32 monobloc

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 CO₂ emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO₂ emission targets.

Reduced environmental impact: CO₂eq > 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)
- › Compact, measures only 85 x 85 mm



Heating

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.

NEW**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 occurred.

✓ **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**

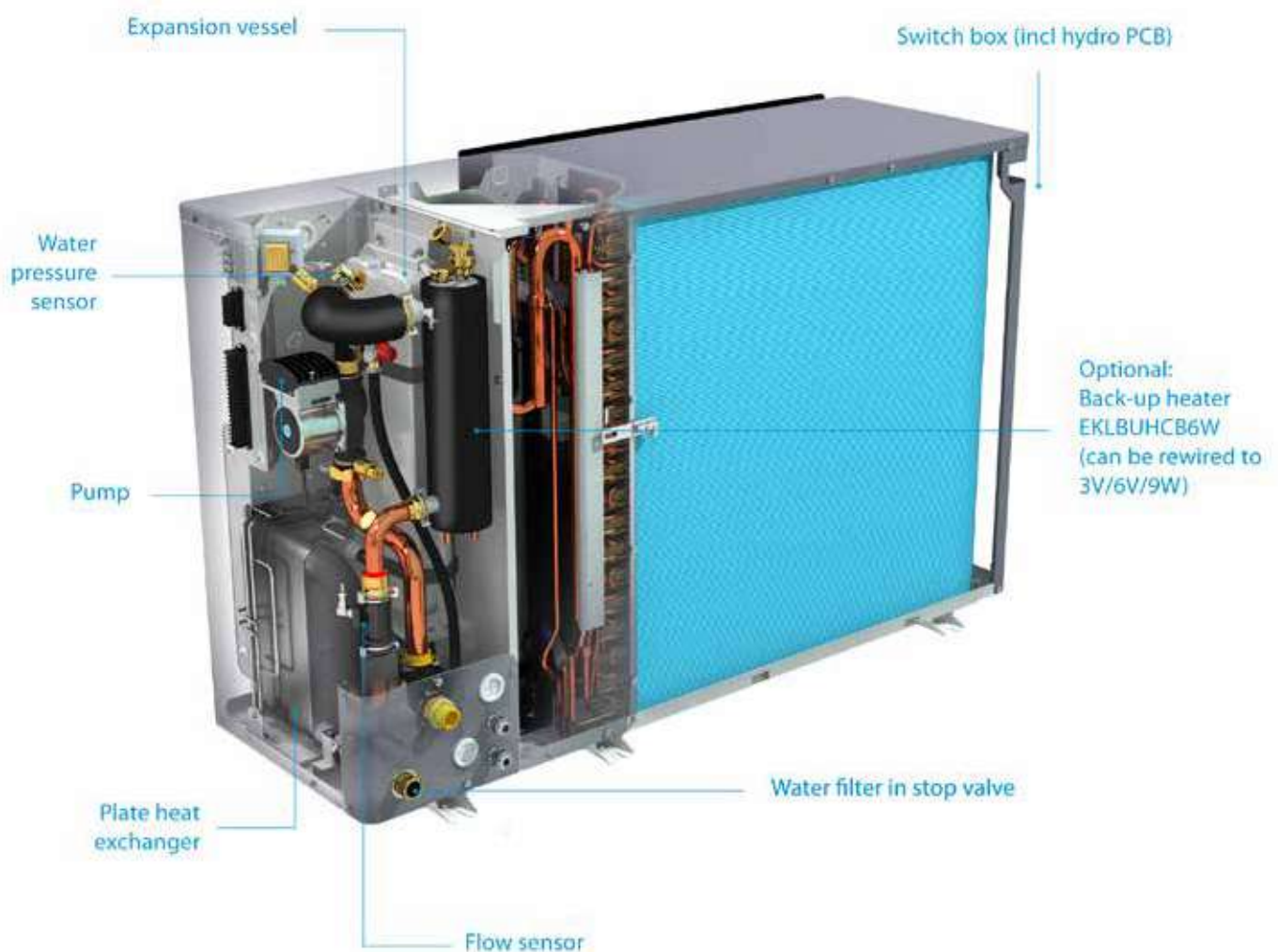
✓ **Discreet thanks to small dimensions**
H x W x D 136 x 160 x 37 mm

**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 ECH₂O 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



011-1W0423 → 426

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 Material	Silver			
Dimensions				Unit	Polyester painted galvanised steel plate			
				HeightxWidthxDepth	870 x 1,380 x 460			
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			TCO ₂ Eq	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 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



011-IW0423 → 426

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	η _s (Seasonal space heating efficiency)	SCOP		135	132	134	132
			Seasonal space heating eff. class			3.44	3.37	3.42	3.37
	Average climate water outlet 35 °C	General	η _s (Seasonal space heating efficiency)	SCOP		190	186	185	
			Seasonal space heating eff. class			4.82	4.73	4.70	4.69
Casing	Colour								
	Material								
Dimensions	Unit	HeightxWidthxDepth			mm				
Weight	Unit				kg				
Compressor	Quantity								
	Type								
Operation range	Heating	Ambient	Min. ~ Max.	°CWB					
		Water side	Min. ~ Max.	°C					
	Cooling	Ambient	Min. ~ Max.	°CDB					
		Water side	Min. ~ Max.	°C					
	Domestic hot water	Ambient	Min. ~ Max.	°CDB					
		Water side	Min. ~ Max.	°C					
Refrigerant	Type								
	GWP								
	Charge			kg					
	Charge			TCO ₂ Eq					
	Control								
Sound power level (5)	Heating	Nom.			dBA				
Power supply	Name/Phase/Frequency/Voltage				Hz/V				
Current	Recommended fuses				A				

(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	EDLA04EV3	EBLA04E3V3	EDLA04E3V3	
			EBLA06EV3	EDLA06EV3	EBLA06E3V3	EDLA06E3V3	
			EBLA08EV3	EDLA08EV3	EBLA08E3V3	EDLA08E3V3	
Type	Description	Material name					
Controls	Madoka wired room thermostat	BRC1HDDAK/S/W	●	●	●	●	
	Wired digital thermostat	EKRTWA	●	●	●	●	
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	●	●	●	●	
	WLAN cartridge	BRP069A78	●	●	●	●	
	Universal centralised controller for cascade	EKCC8-W DCOM-LT/IO,-LT/MB	●	●	●	●	
Multi-zoning controls	Digital wired room thermostat	EKWCTRDIV3	●	●	●	●	
	Analog wired room thermostat	EKWCTRANIV3	●	●	●	●	
	Actuator	EKWCVATRIV3	●	●	●	●	
	Multi-zoning base station (10 channels)	EKWUFHTAIV3	●	●	●	●	
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	EKHYPART	● (2)	● (2)	● (2)	● (2)	
	Third party tank kit	EKHYPART2	● (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	EKLBHUCB6W	● (5)	●			
	By-pass kit	EKMBHBP1	● (5)				
	Generic Bizone kit (PCB only)	EKMIKPOA	●	●	●	●	
	Generic Bizone kit	EKMIKPHA	●	●	●	●	
	Digital I/O PCB	EKRPIHBAA	● (6)	● (6)	● (6)	● (6)	
	Demand PCB	EKRPIAHTA	●	●	●	●	
	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) EKHYPART can be used if you have a tank in which you can insert a thermistor.

(3) EKHYPART2 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)

The ideal boiler replacement gets extended

Ideal to replace gas boilers

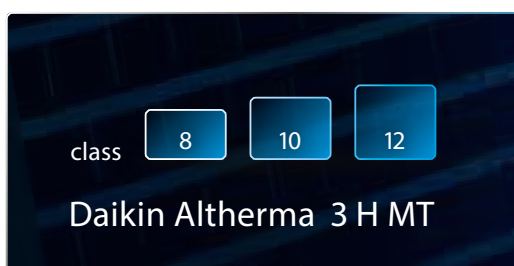
Houses built in the 90s often need a refurbishment to still look up-to-date.

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

Daikin Altherma 3 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.





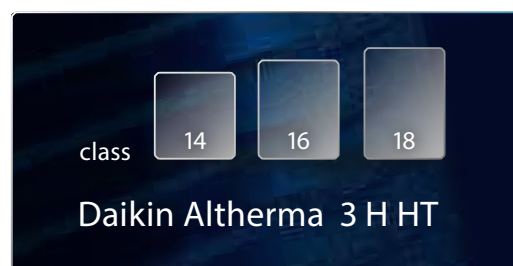
Ideal to replace oil boilers

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 CO₂ emissions.

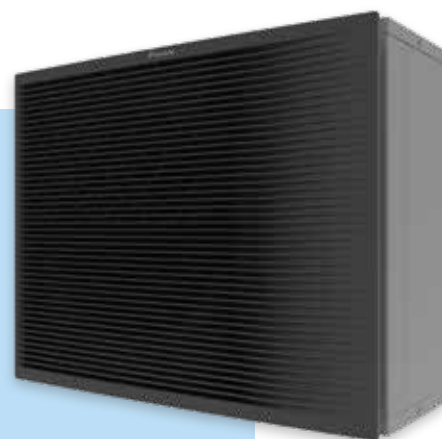
Easy to recover and re-use, R-32 is the perfect solution to attain the new European CO₂ emission targets.

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

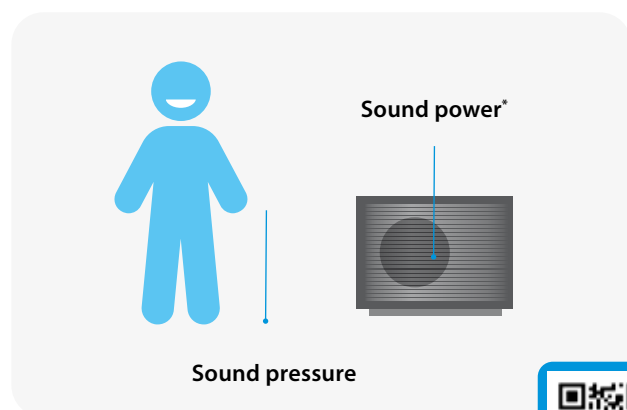
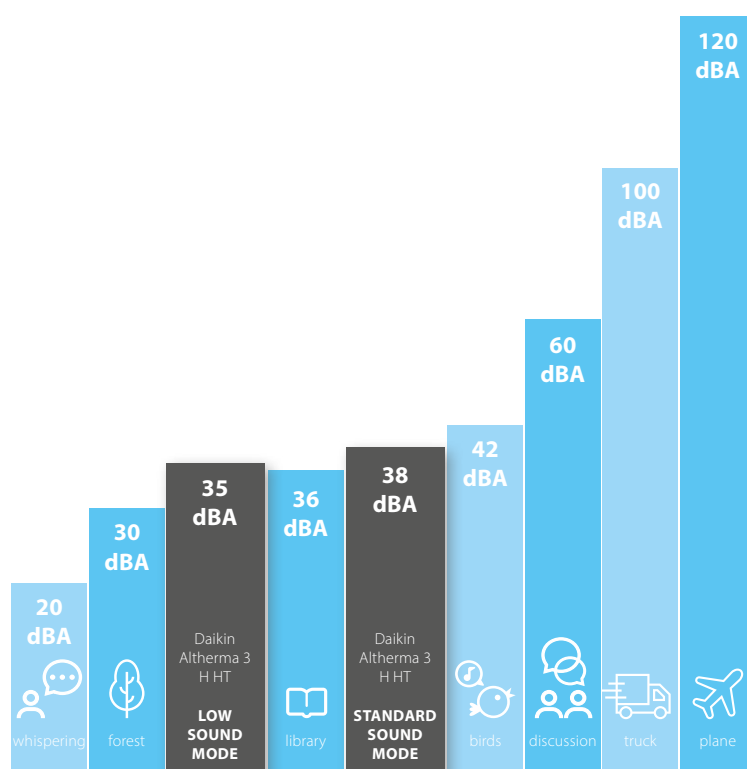


Silence rhymes with comfort

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!



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.

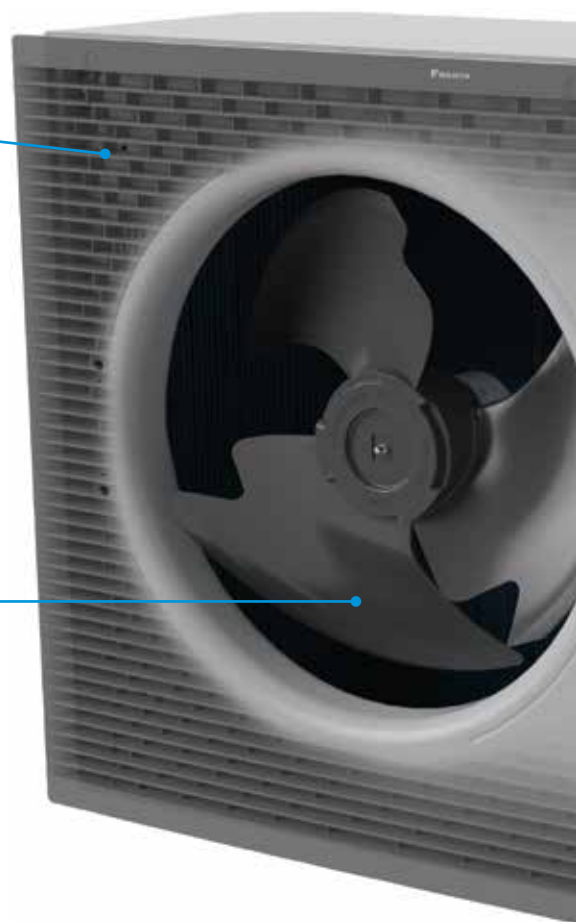


reddot design award
winner 2019

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.

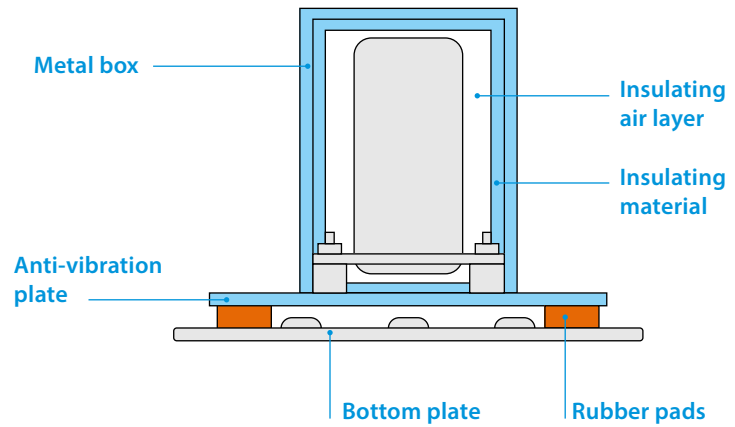


Compressor insulation and anti-vibration

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:



Feel a true performance

One solution, multiple combinations

The Quintessence range 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.

Outdoor unit

The outdoor unit is available in 6 classes 8-10-12-14-16-18 kW.



Integrated DHW stainless steel tank model

This model is a compact unit with a small footprint of 595 x 625 mm. The unit is equipped with a tank of 180 or 230 L to answer your domestic hot water demand.



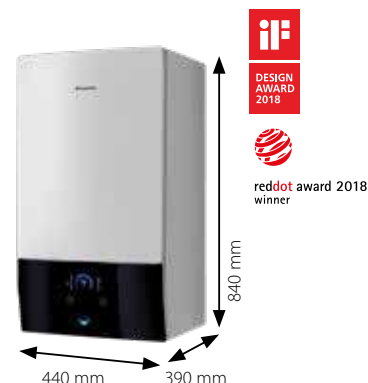
Integrated ECH₂O DHW tank model

The ECH₂O unit is equipped with a thermal DHW tank of 300 or 500 L that can be connected to thermal solar panels.



Wall mounted model

This model is the most compact unit but needs to be with a separate tank to deliver domestic hot water.



See exact dimensions per model in the specification tables (p22-29).

Get the best comfort

with the best functionalities

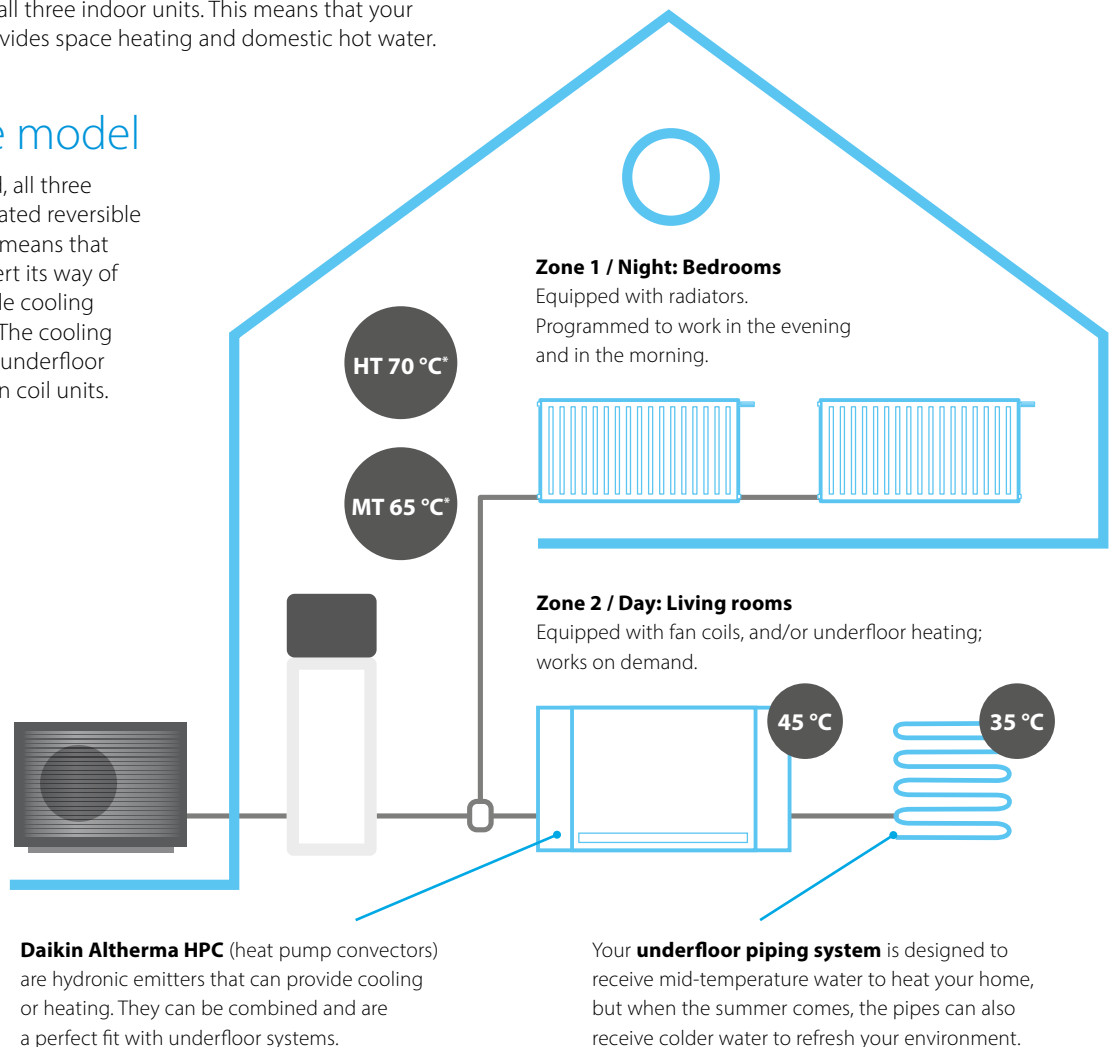
Choose from the Daikin "Three Pluses" the functionality that best fits your customer's needs. The indoor units come in 3 possible versions: heating only, reversible and bizone, giving you the opportunity to tailor your Daikin heating system.

+ 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.

+ 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.



+ 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).

The 2 zones can also be managed independently: deactivate heating on the first floor during the day in order to reduce over consumption.

* 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).

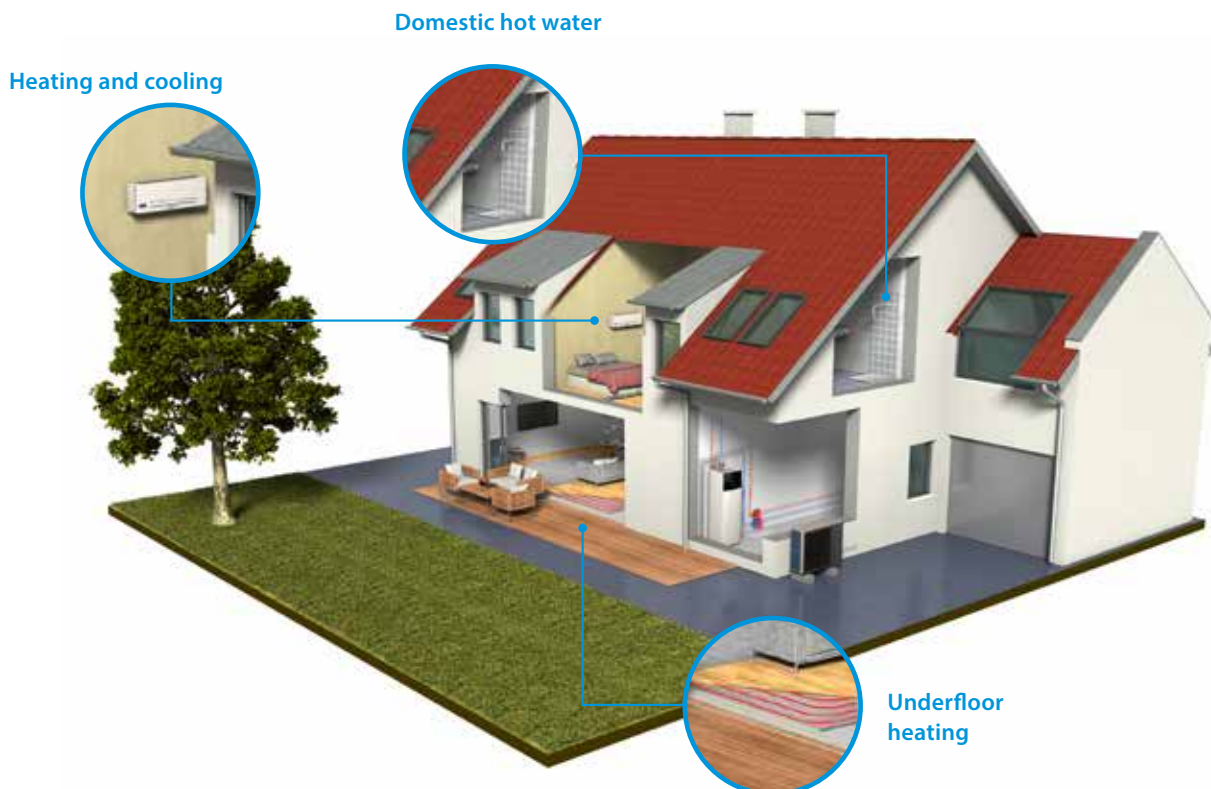
Floor standing unit with integrated tank

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

The Daikin Altherma 3 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 heatpump ensures a faster installation compared to traditional systems.
- › Inclusion of all hydraulic components means no third party components are required.
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6, 9 kW models are available
- › Dedicated bi-zone models allowing temperature monitoring for 2 zones.



All-in one design

Reduces the installation footprint and height

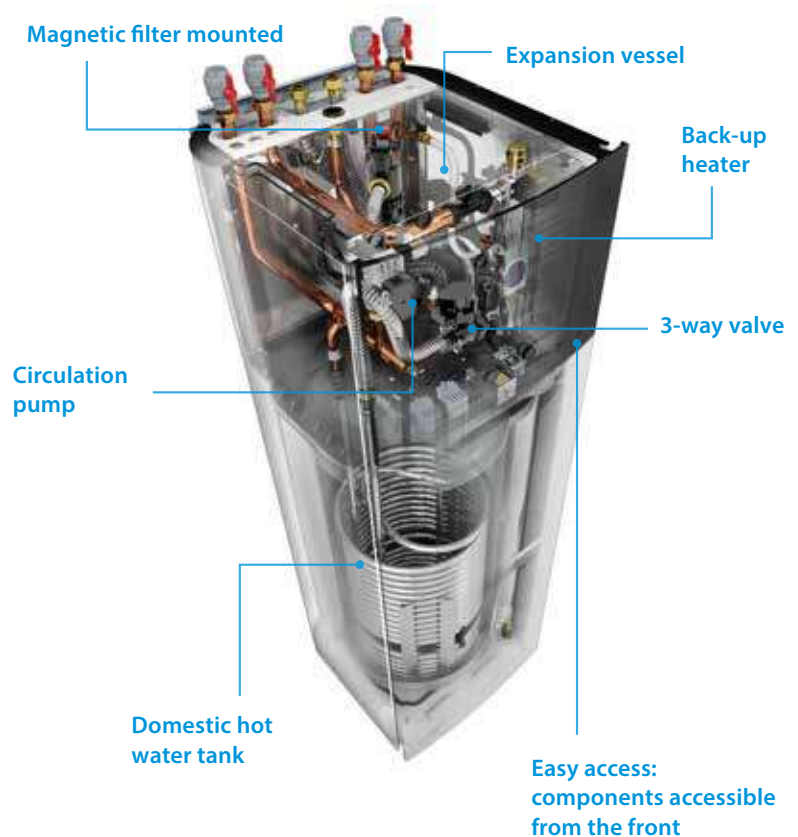
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 625 mm, the integrated indoor unit has a similar footprint when compared to other household appliances.

For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit.

With an installation 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 of the integrated indoor unit is emphasised by its sleek design and modern look, easy blending in with other household appliances.



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 occurred.

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.

Integrated indoor unit





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
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -28 °C



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

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		
	Average climate water outlet 55 °C	General	SCOP	% ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	3.41 / 3.52		3.43 / 3.53					
			134 / 138									
			A++									
	Average climate water outlet 35 °C	General	SCOP	% ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	4.69 / 4.81		4.71 / 4.84		4.71 / 4.84			
			184 / 190		186 / 191		186 / 191					
					A+++							
	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)	% Water heating energy efficiency class	117 / 120		126 / 130		117 / 120		126 / 130	
					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	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625		
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	1,003 x 1,270 x 533							
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	TCO ₂ Eq			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 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
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -28 °C



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

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	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625
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	1,003 x 1,270 x 533					
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			TCO ₂ Eq	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 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
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -28 °C



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	ηs (Seasonal space heating efficiency) %	3.47 / 3.59		3.48 / 3.60				
			Seasonal space heating eff. class				136 / 141				
		Average climate water outlet 35 °C	General	SCOP	ηs (Seasonal space heating efficiency) %	4.79 / 4.95		4.82 / 4.98			
	Seasonal space heating eff. class					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			1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	
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			1,003 x 1,270 x 533						
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	TCO ₂ Eq			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 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
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater of 6 or 9 kW
- › Heat pump operation down to -28 °C



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

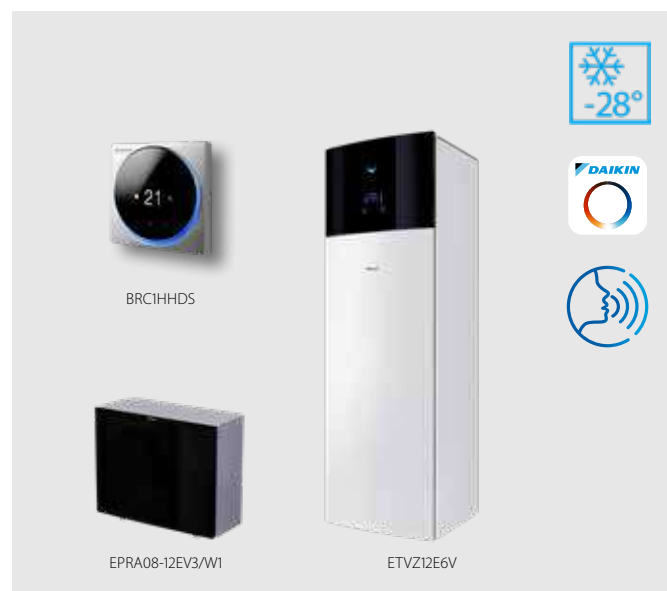
Efficiency data				ETVX + EPRA	16S18E6V7/E9W7 + 14DV7/W7	16S23E6V7/E9W7 + 14DV7/W7	16S18E6V7/E9W7 + 16DV7/W7	16S23E6V7/E9W7 + 16DV7/W7	16S18E6V7/E9W7 + 18DV7/W7	16S23E6V7/E9W7 + 18DV7/W7	
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.62 / 3.63						
			ηs (Seasonal space heating efficiency)	%	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	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	
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	1,003 x 1,270 x 533						
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			TCO ₂ Eq	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 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 of 6 or 9 kW
- › Heat pump operation down to -28 °C



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

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
	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+++					
	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		1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625
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		1,003 x 1,270 x 533					
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		TCO ₂ Eq		2.19					
	Control				Expansion valve					
					53					
LW(A) Sound power level (according to EN14825)										
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 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 of 6 or 9 kW
- › Heat pump operation down to -28 °C



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

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	
	Average climate water outlet 55 °C	General	SCOP		3.58 / 3.57						
			ηs (Seasonal space heating efficiency)	%	140						
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class		A++						
			SCOP		4.51 / 4.71						
			ηs (Seasonal space heating efficiency)	%	177 / 186						
	Average climate	General	Declared load profile		L	XL	L	XL	L	XL	
			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	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,850 x 595 x 625	
Weight	Unit		kg	120	128	120	128	120	128	128	
Tank	Water volume		l	180	230	180	230	180	230	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	1,003 x 1,270 x 533							
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		TCO ₂ Eq	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 ECH₂O tank

The Daikin Altherma high temperature split integrated ECH₂O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling

Intelligent storage management

- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500 L tank only)
- › Electronic management of both heat pump and ECH₂O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- › Achieves the highest standards for water sanitation
- › Uses more renewable energy with solar connection

Innovative and high-quality tank

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

Combinable with other heat sources

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

ECH₂O

Outdoor unit connection

Hydraulics

New controller display

Polypropylene tank



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 occurred.

Quick to configure

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

Easy operation

The user interface works really fast thanks to its icon-based menus.

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.

ECH₂O thermal store range: additional hot water comfort

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

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

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

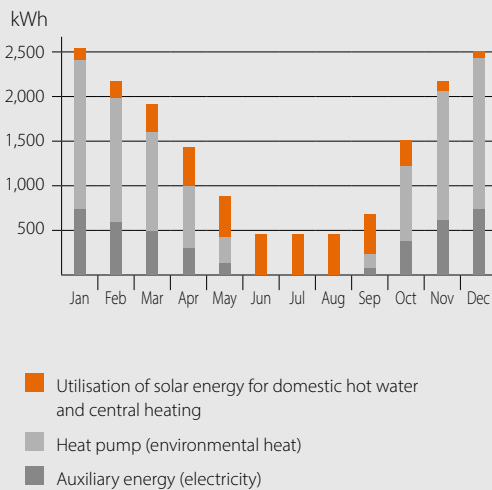
Pressureless (drain-back) solar system (ETSH*, ETSX*)

- › 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*)

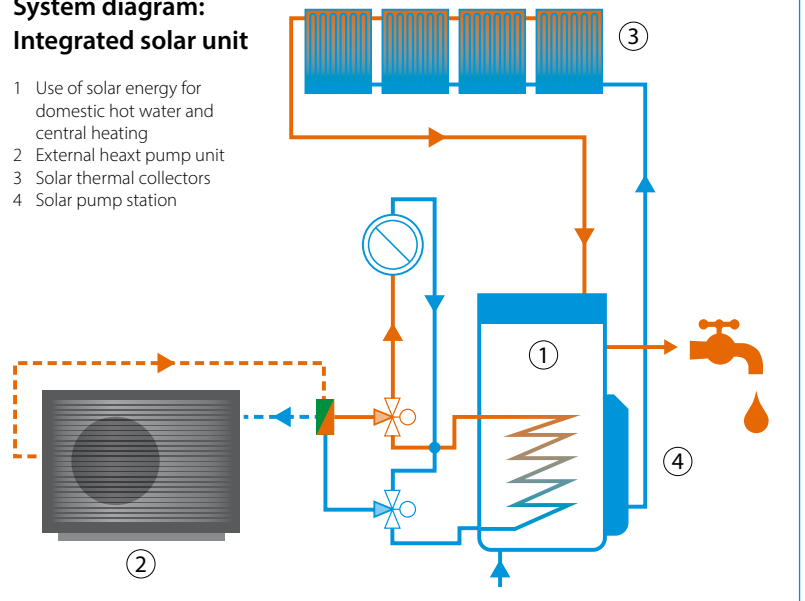
- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed

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 3 H MT ECH₂O

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
- › Heat pump operation down to -28 °C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



011-1W0501
011-1W0502

Efficiency data				ETSH + EPRA	12P30E + 08EV/W	12P50E + 08EV/W	12P30E + 10EV/W	12P50E + 10EV/W	12P30E + 12EV/W	12P50E + 12EV/W	
	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+++							
	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	HeightxWidthxD	Depth	mm	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	
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	HeightxWidthxD	Depth	mm	1,003 x 1,270 x 533						
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				TCO ₂ Eq	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 ECH₂O

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
- › Heat pump operation down to -28 °C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



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

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	%	Water heating energy efficiency class	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		
	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	TCO ₂ Eq			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 3 H MT ECH₂O

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
- › Heat pump operation down to -28 °C



011-1W0501
011-1W0502

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	General	SCOP		3.41 / 3.52		3.43 / 3.53			
	climate water outlet 55 °C		ηs (Seasonal space heating efficiency)	%	134 / 138					
			Seasonal space heating eff. class		A++					
		Average	General	SCOP		4.69 / 4.81		4.71 / 4.84		4.71 / 4.84
	climate water outlet 35 °C		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	COP _{dhw}		2.75 / 2.83	3.10 / 3.17	2.75 / 2.83	3.10 / 3.17	2.75 / 2.83	3.10 / 3.17	
	climate	η _{wh} (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	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	
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	1,003 x 1,270 x 533						
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		TCO ₂ Eq	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 ECH₂O

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
- › Heat pump operation down to -28 °C



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

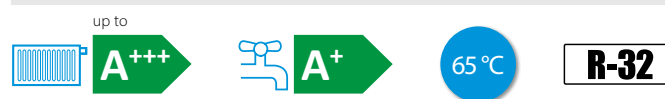
Efficiency data				ETSHB + EPRA	16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7	
 Space heating	Average climate water outlet 55 °C	General	SCOP	η _s (Seasonal space heating efficiency) Seasonal space heating eff. class	%	3.58 / 3.57					
						140					
						A++					
	Average climate water outlet 35 °C	General	SCOP	η _s (Seasonal space heating efficiency) Seasonal space heating eff. class	%	4.51 / 4.71					
						177 / 186					
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL	
	Average climate	COP _{dhw}			2.86 / 2.85	3.00 / 2.99	2.86 / 2.85	3.00 / 2.99	2.86 / 2.85	3.00 / 2.99	
		η _{wh} (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				TCO ₂ Eq	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 3 H MT ECH₂O

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 -28 °C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



011-1W0501
011-1W0502

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	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816		
Weight	Unit		kg	75	98	75	98	75	98		
Tank	Water volume		l	294	477	294	477	294	477		
Operation range	Maximum water temperature			°C	85						
	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	1,003 x 1,270 x 533							
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 3 H HT ECH₂O



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 -28 °C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



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



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	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	
	climate	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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Daikin Altherma 3 H MT ECH₂O

Floor standing air-to-water heat pump
for **bivalent 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
- › 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



011-1W0501
011-1W0502

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		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				ETSXB	12P30E	12P50E	12P30E	12P50E	12P30E	12P50E	
Casing	Colour					Traffic white (RAL9016) / Traffic black (RAL9017)					
	Material					Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth	mm		1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	1,892 x 594 x 644	1,910 x 792 x 816	
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		1,003 x 1,270 x 533						
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		TCO ₂ Eq		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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Daikin Altherma 3 H HT ECH₂O

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- › App control possible for managing heating and hot water operation



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

Efficiency data				ETSXB + EPRA		16P30E7 + 14DV7/W7	16P50E7 + 14DV7/W7	16P30E7 + 16DV7/W7	16P50E7 + 16DV7/W7	16P30E7 + 18DV7/W7	16P50E7 + 18DV7/W7
	Average climate water outlet 55 °C	General	SCOP		%	3.62 / 3.63					
			η _s (Seasonal space heating efficiency)			142					
			Seasonal space heating eff. class			A++					
	Average climate water outlet 35 °C	General	SCOP		%	4.57 / 4.81					
			η _s (Seasonal space heating efficiency)			180 / 190					
			Seasonal space heating eff. class			A+++					
	General	Declared load profile			L	XL	L	XL	L	XL	
	Average	COP _{dhw}			2.86 / 2.85	3.00 / 2.99	2.86 / 2.85	3.00 / 2.99	2.86 / 2.85	3.00 / 2.99	
	climate	η _{wh} (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	1,910x7,92x816	
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			TCO ₂ Eq	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.

Wall mounted unit

Why choose Daikin wall mounted unit?

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

High flexibility for installation and domestic hot water connection

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends in with other household appliances
- › Combine with a stainless steel or ECH₂O thermal store



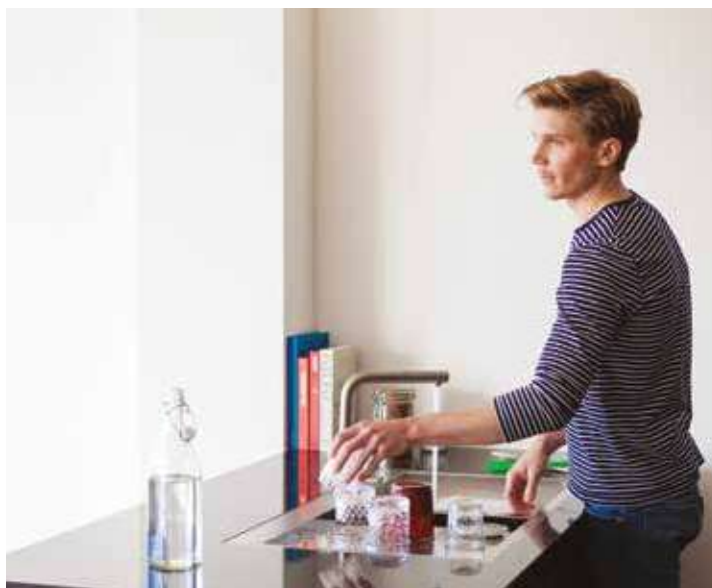
Flexibility in providing domestic hot water

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

ECH₂O thermal store range: additional hot water comfort

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

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



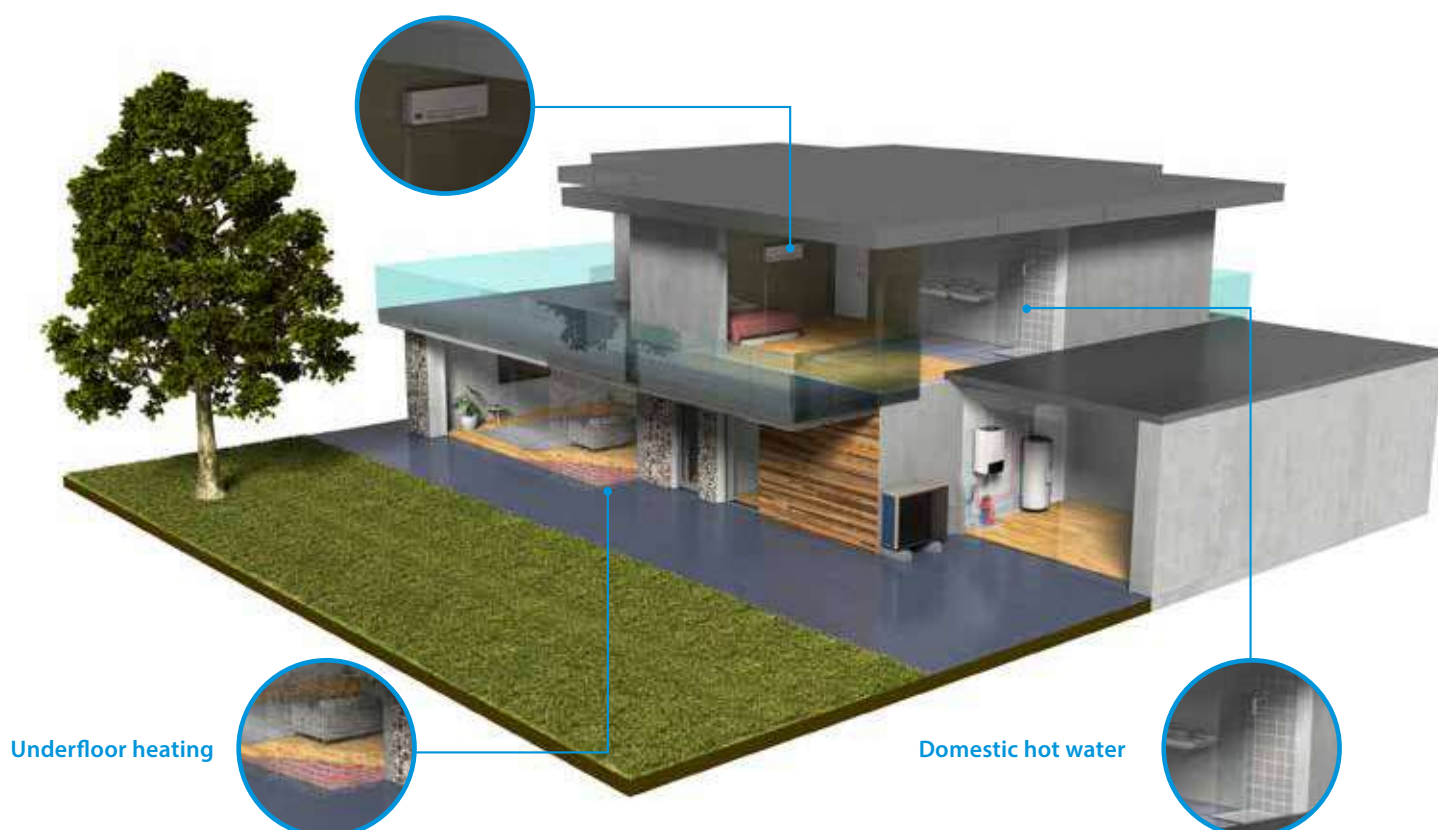
Heat pumps

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.

Example of installation with a stainless steel domestic hot water tank.

Heating and cooling




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 ECH₂O thermal store
- › Heat pump operation down to -28 °C



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

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			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+++						
Indoor Unit				ETBH	12E6V	12E9W	12E6V	12E9W	12E6V	12E9W		
Casing	Colour				White + Black							
	Material				Sheet metal							
Dimensions	Unit		HeightxWidthxDepth		mm		840 x 440 x 390					
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		1,003 x 1,270 x 533					
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				TCO ₂ Eq		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 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 ECH₂O thermal store
- › Heat pump operation down to -28 °C



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

Efficiency data					ETBH + EPRA	16E6V7 + 14DV7/DW7	16E9W7 + 14DV7/DW7	16E6V7 + 16DV7/W7	16E9W7 + 16DV7/W7	16E6V7 + 18DV7/DW7	16E9W7 + 18DV7/DW7	
	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		840 x 440 x 390						
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.					dB(A)	44					
Sound pressure level	Nom.					dB(A)	30					
Outdoor Unit					EPRA	14DV37/W17		16DV37/W17		18DV37/W17		
Dimensions	Unit	HeightxWidthxDepth		mm		1,003 x 1,270 x 533						
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				TCO ₂ Eq	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
- › 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 ECH₂O thermal store
- › Heat pump operation down to -28 °C



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

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	840 x 440 x 390					
Weight	Unit				kg					
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					
Sound pressure level	Nom.				dBA					
Outdoor Unit				EPRA	08EV3/W1		10EV3/W1		12EV3/W1	
Dimensions	Unit	HeightxWidthxDepth		mm	1,003 x 1,270 x 533					
Weight	Unit				kg					
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					
	Charge				TCO ₂ Eq					
	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 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 ECH₂O thermal store
- › Heat pump operation down to -28 °C



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

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	ηs (Seasonal space heating efficiency)	%	3.62 / 3.63					
				Seasonal space heating eff. class			142					
							A++					
	Average climate water outlet 35 °C	General	SCOP	ηs (Seasonal space heating efficiency)	%	4.57 / 4.81						
			Seasonal space heating eff. class			180 / 190						
						A+++						
Indoor Unit					ETBX	16E6V7	16E9W7	16E6V7	16E9W7	16E6V7	16E9W7	
Casing	Colour					White + Black						
	Material					Sheet metal						
Dimensions	Unit				HeightxWidthxDepth	mm	840 x 440 x 390					
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	1,003 x 1,270 x 533					
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	●	●
	Wireless room thermostats	EKRTRB	●	●
	Wired digital thermostat	EKRTWA	●	●
	LAN Adapter	BRP069A62 (with MMI from v6.8.0)	●	●
	WLAN module	BRP069A71	●	●
	WLAN cartridge	BRP069A78	● (1)	● (1)
	Wired digital thermostat	EKWCTRD1IV3	●	●
	Wired analog thermostat	EKWCTRAN1V3	●	●
	Valve actuator	EKWCVATR1V3	●	●
	Wired underfloor heating base station	EKWUFHTA1V3	●	●
	Universal centralised controller	EKCC8-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 EKTR 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	EKRPIHBA	● (7)	● (7)
	Demand PCB	EKRPIAHT	●	●
	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	EKECDBC01AF		

- (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 ₂ O		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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						● (4)	● (4)	● (4)	● (4)
						● (5)	● (5)	● (5)	● (5)
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● (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 6Ti-model applicable). EKECBUCO1AF is needed to connect the backup heater to the main unit.

Daikin Altherma R HT

Why choose a Daikin Altherma high temperature split?

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

✓ Comfort

Best for renovation projects

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

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



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

Stainless steel domestic hot water tank

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

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

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



ECH₂O thermal store: hot water savings with solar energy

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



✓ Energy efficiency

Powered by renewable energy

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

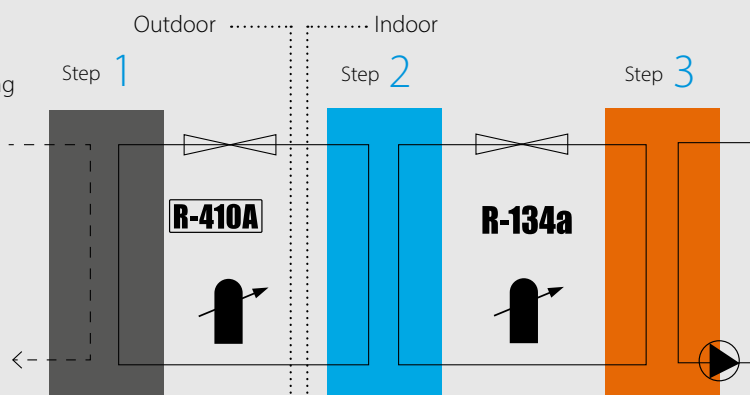
✓ Reliability

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

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

Cascade technology

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



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

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

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

Daikin Altherma R HT

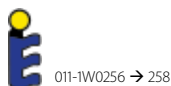
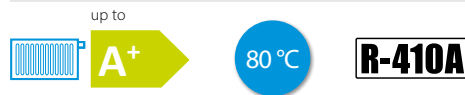
Floor standing **heating only** air to water heat pump
combinable **with existing radiators**

- › Energy efficient heating only system based on air to water heat pump technology
- › Single phase floor standing indoor unit up to 16kW
- › Three phase floor standing indoor unit up to 16kW
- › High temperature application: up to 80 °C without electric heater
- › Easy replacement of existing boiler, without changing heating pipes
- › Combinable with high temperature radiators
- › Low energy bills and low CO₂ emissions
- › Inverter controlled scroll compressor




ERRQ-AAV1

EKHBRD-ADV17/Y17





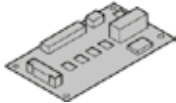
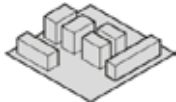


011-1W0256 → 258

Efficiency data				EKHBRD + ERRQ/ERSQ		011ADV17 + ERRQ011AV1	011ADV17 + ERSQ011AV1	014ADV17 + ERRQ014AV1	014ADV17 + ERSQ014AV1	016ADV17 + ER(R/S) Q016AV1	011ADY17 + ERRQ011AY1	011ADY17 + ERSQ011AY1	014ADY17 + ERRQ014AY1	014ADY17 + ERSQ014AY1	016ADY17 + ER(R/S) Q016AY1		
Heating capacity	Nom.			kW		11.3 (1) / 11.0 (2) / 11.2 (3)		14.5 (1) / 14.0 (2) / 14.4 (3)		16.0 (1) / 16.0 (2) / 16.0 (3)	11.3 (1) / 11.0 (2) / 11.2 (3)		14.5 (1) / 14.0 (2) / 14.4 (3)		16.0 (1) / 16.0 (2) / 16.0 (3)		
Power input	Heating	Nom.		kW		3.80 (1) / 4.40 (2) / 2.67 (3)	3.87 (1) / 4.40 (2) / 2.67 (3)	5.02 (1) / 5.65 (2) / 3.87 (3)	5.09 (1) / 5.65 (2) / 3.87 (3)	5.86 (1) / 6.65 (2) / 4.31 (3)	3.80 (1) / 4.40 (2) / 2.67 (3)	3.87 (1) / 4.40 (2) / 2.67 (3)	5.02 (1) / 5.65 (2) / 3.87 (3)	5.09 (1) / 5.65 (2) / 3.87 (3)	5.86 (1) / 6.65 (2) / 4.31 (3)		
COP						2.97 (1) / 2.50 (2) / 4.20 (3)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (1) / 2.48 (2) / 3.72 (3)	2.73 (1) / 2.41 (2) / 3.72 (3)	2.97 (1) / 2.50 (2) / 4.20 (3)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (1) / 2.48 (2) / 3.72 (3)	2.73 (1) / 2.41 (2) / 3.72 (3)		
 Space heating	Average climate water outlet 55 °C	General	SCOP			2.96		2.98		3.01	2.96		2.98		3.01		
			η _s (Seasonal space heating efficiency)	%		115		116		117	115		116		117		
			Seasonal space heating eff. class		A+												
	Average climate water outlet 35 °C	General	SCOP			2.70		2.81		2.88	2.70		2.81		2.88		
			η _s (Seasonal space heating efficiency)	%		105		110		112	105		110		112		
			Seasonal space heating eff. class		C	B				C	B						
Indoor Unit				EKHBRD		011ADV17		014ADV17		016ADV17		011ADY17		014ADY17		016ADY17	
Casing	Colour				Metallic grey												
	Material				Precoated sheet metal												
Dimensions	Unit	Height x Width x Depth			705 x 600 x 695												
Weight	Unit				144												
Operation range	Heating	Ambient	Min. ~ Max.	°C	-20 / 0 ~ 20												
		Water side	Min. ~ Max.	°C	25 ~ 80												
	Domestic hot water	Ambient	Min. ~ Max.	°CDB	-20 ~ 35												
Refrigerant		Water side	Min. ~ Max.	°C	25 ~ 80												
	Type				R-134a												
	Charge				2.60												
Sound pressure level				kg	3.718												
				TCO ₂ Eq													
	Nom.			dBA	43 (4) / 46 (5)	45 (4) / 46 (5)	46 (4) / 46 (5)	43 (4) / 46 (5)	45 (4) / 46 (5)	46 (4) / 46 (5)							
	Night quiet mode	Level 1		dBA	40 (4)	43 (4)	45 (4)	40 (4)	43 (4)	45 (4)							
Outdoor Unit					ERRQ-011AV1	ERSQ-011AV1	ERRQ-014AV1	ERSQ-014AV1	ERRQ/ERSQ 016AV1	ERRQ-011AY1	ERSQ-011AY1	ERRQ-014AY1	ERSQ-014AY1	ERRQ/ERSQ 016AY1			
Dimensions	Unit	Height x Width x Depth			1,345 x 900 x 320												
Weight	Unit				120												
Compressor	Quantity				1												
	Type				Hermetically sealed scroll compressor												
Operation range	Heating	Min. ~ Max.	°CWB	-20 ~ 20													
	Domestic hot water	Min. ~ Max.	°CDB	-20 ~ 35													
Refrigerant	Type				R-410A												
	GWP				2,087.5												
	Charge				4.50												
	Charge				9.40												
	Control				Expansion valve (electronic type)												
Sound power level	Heating	Nom.	dBA	68	69	71	68	69	71								
Sound pressure level	Heating	Nom.	dBA	52	53	55	52	53	55								
Power supply	Name/Phase/Frequency/Voltage				V1/1 ~ /50/220-440					Y1/3 ~ /50/380-415							
Current	Recommended fuses				A					16							

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

Options

	Type	Material name
Controllers	Remote user interface	EKRUHTB
	 Room thermostat (wired)	EKRTWA
	 Room thermostat (wireless)	EKRTR1
	Centralised controller kit	EKCC-W
	 DCOM gateway	DCOM-LT/IO
	 DCOM gateway	DCOM-LT/MB
Adapter	 Demand PCB	EKRP1AHTA
	 Digital I/O PCB	EKRP1HBAA
Back-up heater	Back-up heater for HT 1 ~	EKBUHAA6V3
	Back-up heater for HT 3 ~	EKBUHAA6W1
	Bottom plate heater	EKBPTH16A
Installation	UK tank kit	EKUHWHTA
	Stand alone kit	EKFMAHTB
Sensor	External sensor	EKRTETS
Valve	Refrigerant stop valves	EKRSVHTA
Others	Compatibility kit 1	EKMKHT1A
	Compatibility kit 2	EKMKHT2A



New generation of domestic water heat pumps

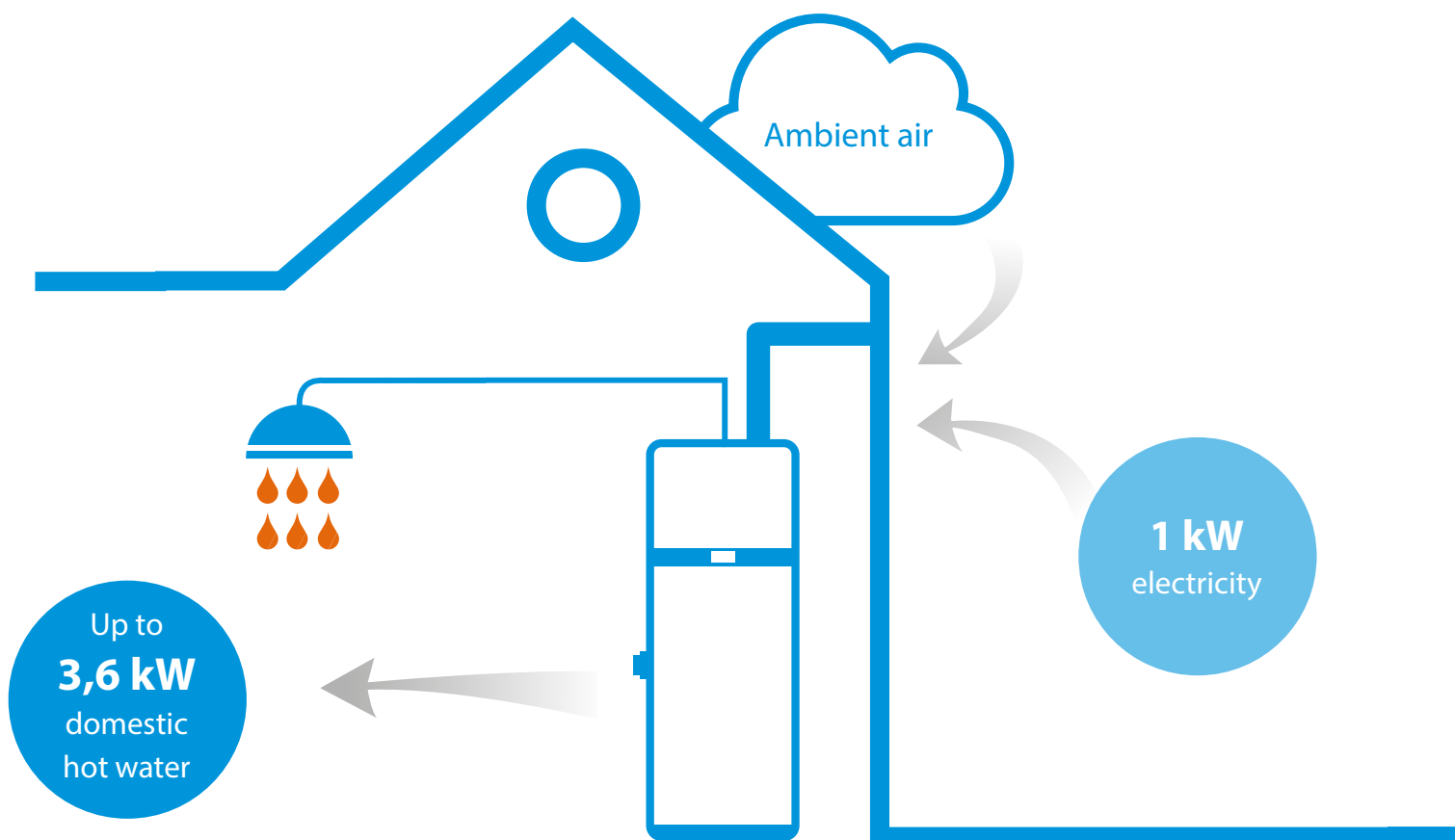


Why choose Daikin Altherma domestic hot water heat pump?

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.

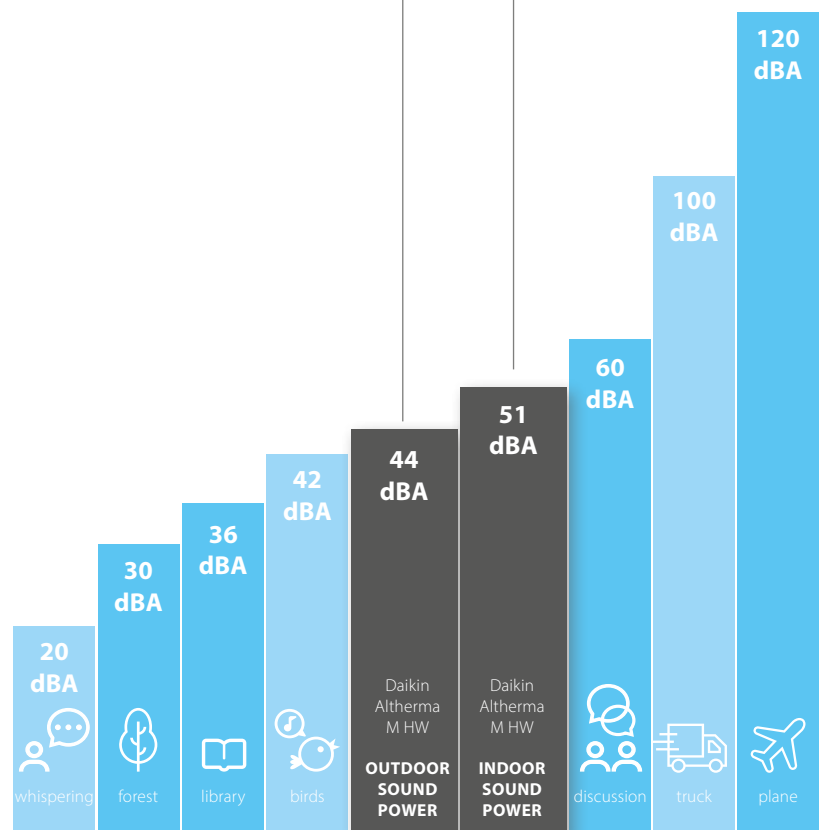
This heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, heating the water up to your needs and delivering it into your house.





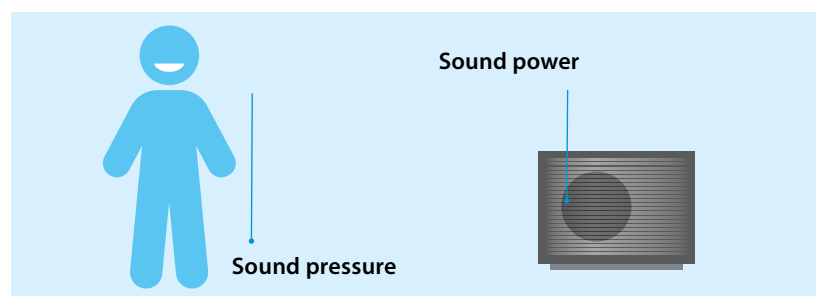
Remarkably quiet

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

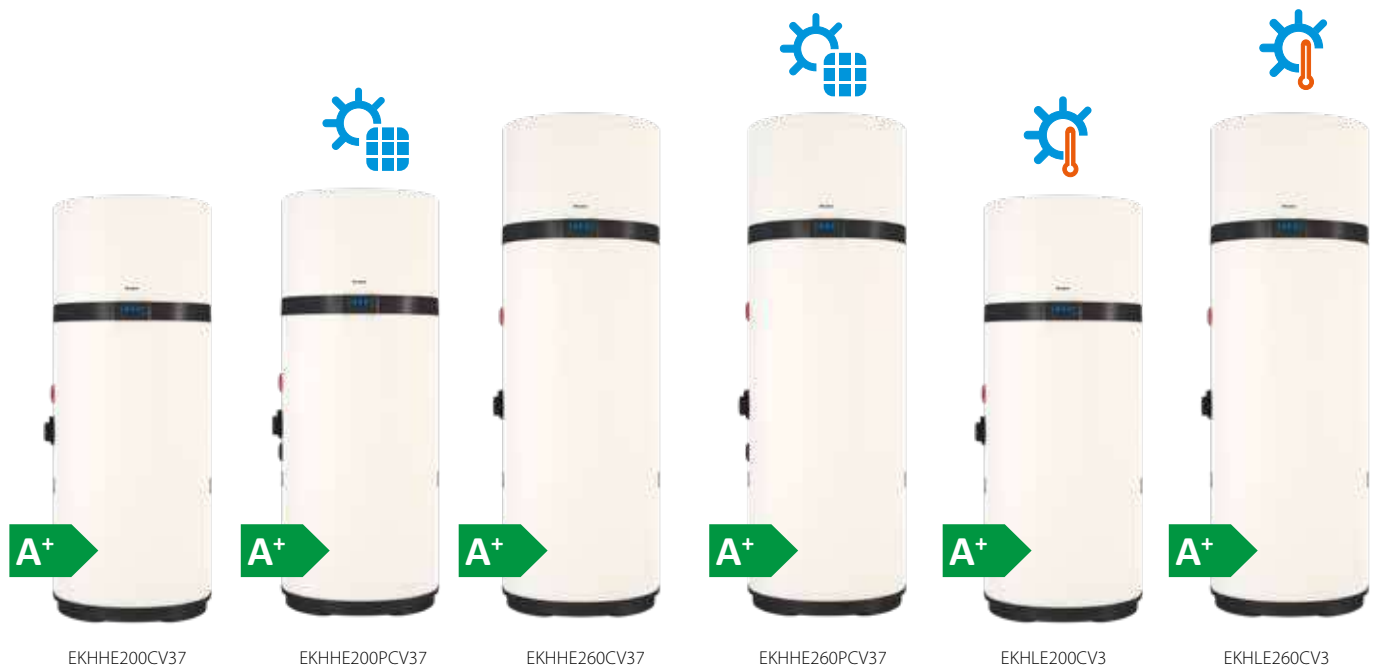


The acoustic level can be evaluated in two ways

- › 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.



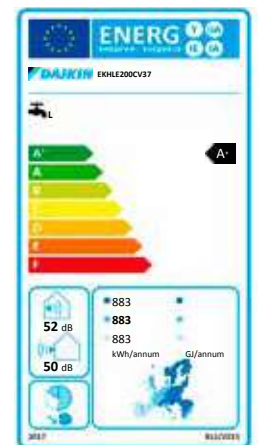
Product range



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 an 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) or through a heating element (up to 75 °C) on all models
- › 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



Eco mode
Renewable 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).

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

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).

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

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

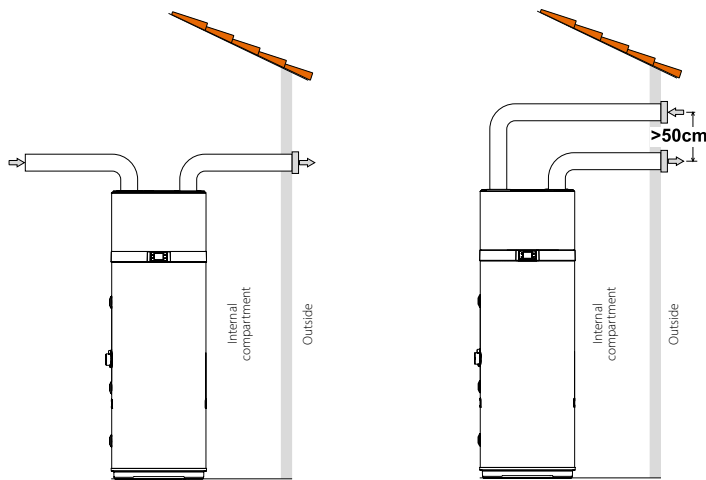


Fig. 1 - Example of air discharge connection

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.

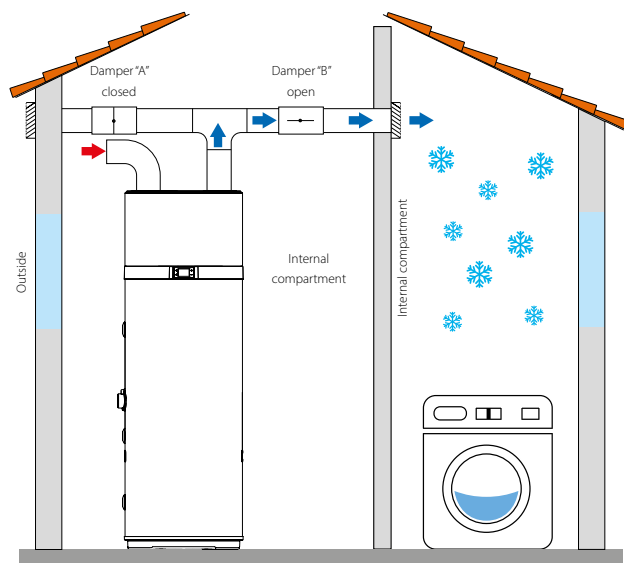


Fig. 3 - Example of installation in summer

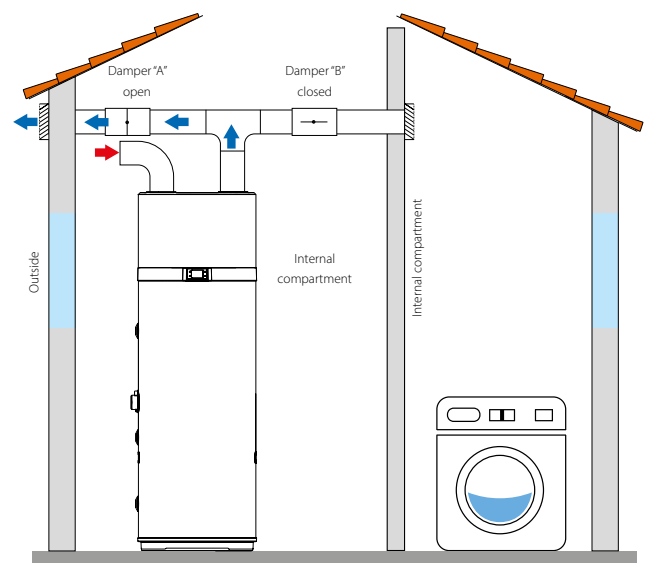


Fig. 4 - Example of installation in winter

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 wall mounted (200-260 L)
- › Compact modern design
- › Anti-legionella cycle
- › Scheduled operation
- › Integrated solar thermal control (EKHHE-PCV37)
- › Suitable for warm climate (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					
Casing		Colour			White					
Defrost method					Hot gas				-	-
Automatic defrost start				°C	-5				-	-
Heat pump	System pressure	Max.		bar	7				4	
	Operation range	Ambient	Min. Max.	°CDB °CDB	-7					
	Power supply				43					
					1					
					50					
					230					
				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				1					
					50					
					230					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Water heating energy efficiency class			A+					
		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.

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.

BLUEEVOLUTION

Bluevolution technology using R-32, environmentally friendly refrigerant with a lower GWP, reducing its CO₂ equivalent by 70% compared to its predecessor R-410A.



Daikin Altherma HPC provides heating or cooling for living rooms.

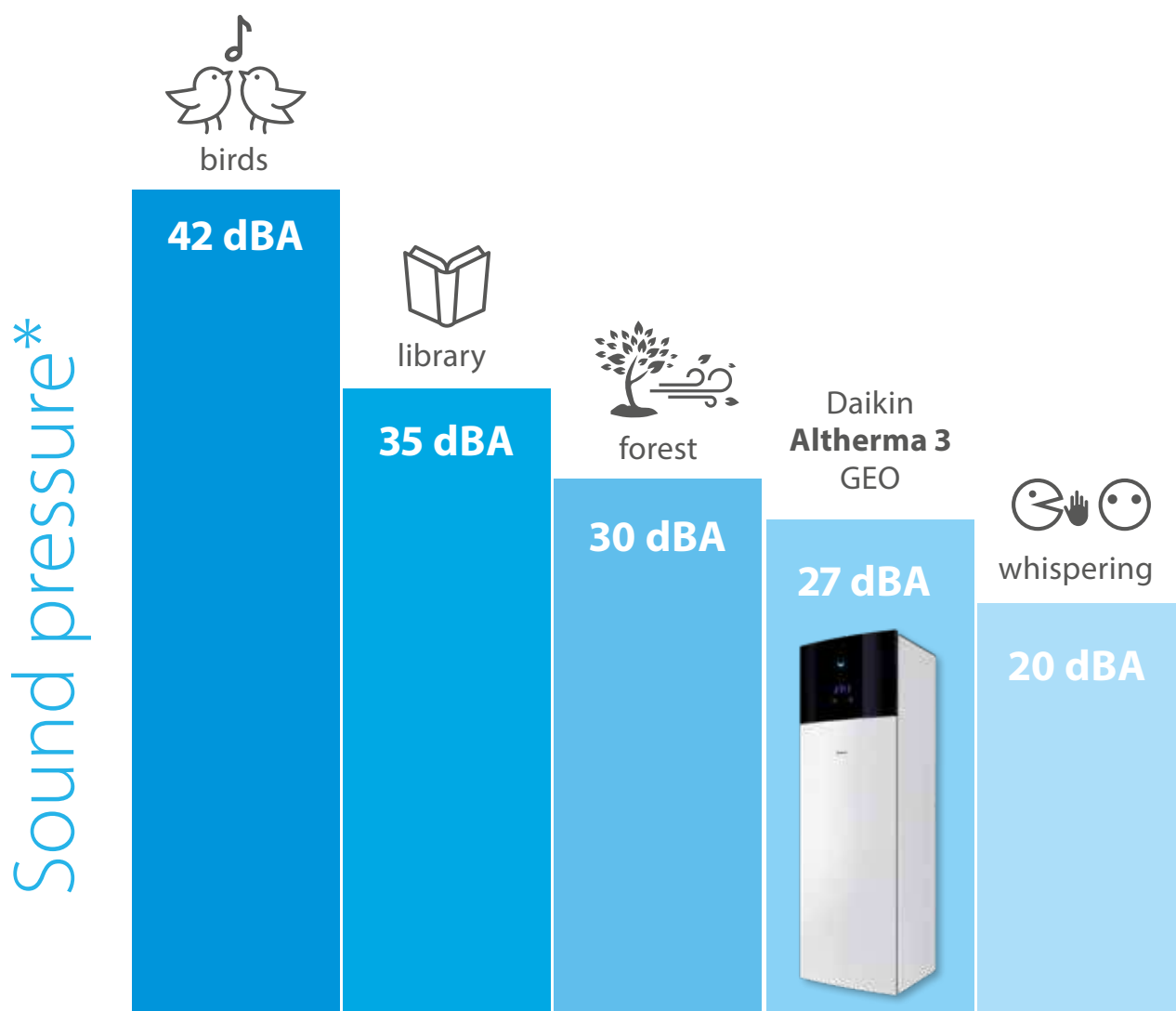
An 80-100 metre borehole in the ground creates a constant inlet temperature.

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.

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



BRC1HHDW



BRC1HHDS



BRC1HHDK



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

All pipe connections on top,
paired in and out



Standard electrical
connections pre-cabled



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



666 mm

Advanced user interface

The Daikin Eye

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



Blue

When the Daikin Eye indicates a blue colour, it means the 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.

Quick to configure

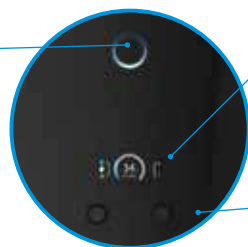
Log in and you'll be able to completely configure the unit via the new user interface in 9 steps. You can even check if the unit is ready for use by running test cycles. You can upload the settings on a USB stick and download it directly into the unit.

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.



Removable compressor module,
reducing the overall weight by 70 kg



1,891 mm

597 mm






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



011-1W0337
011-1W0338

Indoor Unit				EGSA	H06D9W	X06D9W	H10D9W	X10D9W
Heating capacity	Min.				0.85			
	Nom.				3.35			
	Max.				7.98			
Power input	Nom.				0.74			
COP					4.51			
 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					
Weight	Unit	kg						
Tank	Water volume	l						
	Insulation	Heat loss	kWh/24h					
	Corrosion protection	Pickling						
Operation range	Installation space	Min. ~ Max.	°C					
	Brine side	Min. ~ Max.	°C					
	Heating	Water side	Min. ~ Max.	°C				
	Domestic hot water	Water side	Min. ~ Max.	°C				
				25 / 60				
Refrigerant	Type	R-32						
	GWP	675						
	Charge	kg						
	Charge	TCO ₂ Eq						
Sound power level	Nom.	dBA						41
Sound pressure level at 1 meter	Nom.	dBA						29
Power supply	Name/Phase/Frequency/Voltage				Hz/V			
Current	Recommended fuses				A			
					3 ~ /50/400 or 1 ~ /50/230			
					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)	EKTRT1
	Cascade control	EKCC8-W
	Gateway	DCOM-LT/IO
Adapter	Gateway	DCOM-LT/MB
	Demand PCB	EKRP1AHTA
	Digital I/O PCB	EKRP1HBAA
Sensor	Remote indoor sensor	KRCS01-1
	External sensor	EKRTETS
	Reduce power limitation sensor	EKCSSENS
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.

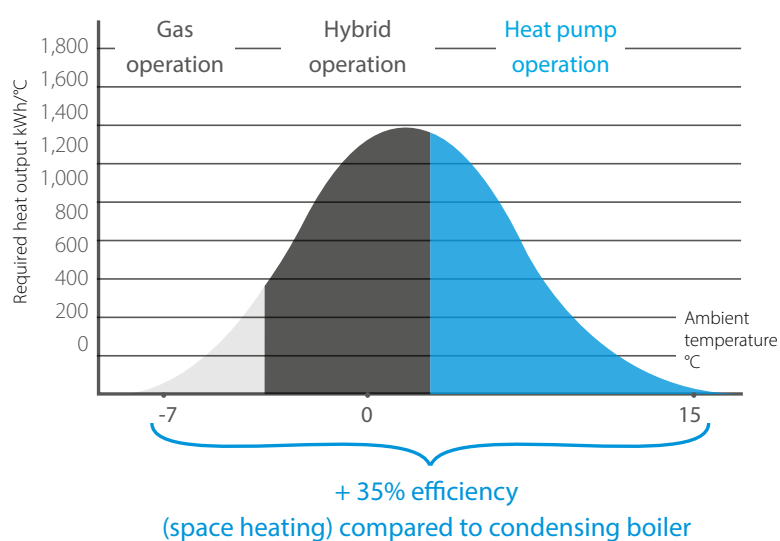
Comfort

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

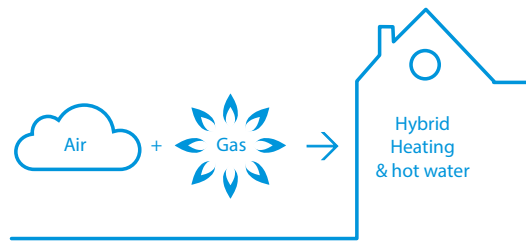
Illustration of an average European climate



- › 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 occurring 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 photovoltaic solar panels to optimise self-consumption of the electricity produced



A++



Energy efficiency

The ideal combination

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

Supported by renewable energy

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

Hot water produced with gas condensing technology

Unique dual heat exchanger increases efficiency up to 15% compared to traditional gas boilers.

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



Reliability

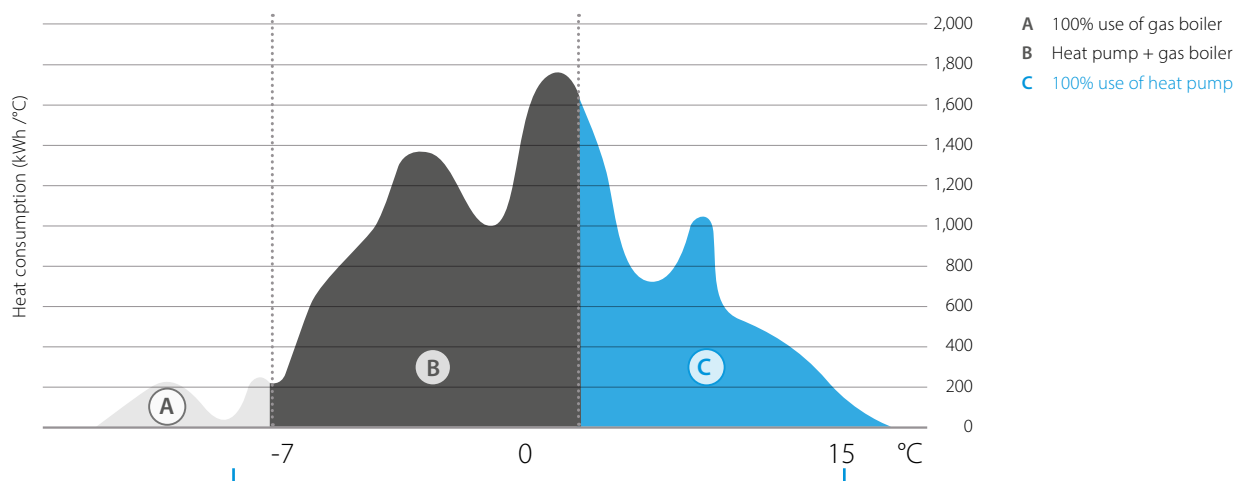
- › Low investment cost with no need to replace existing piping and radiators
- › Low running costs for heating and domestic hot water
- › Compact dimensions
- › Ideal for renovation applications
- › Easy and fast installation



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.



+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 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

Efficiency data					EHYHBH05AV32 + EVLQ05CV3	EHYHBH08AV32 + EVLQ08CV3	EHYHBX08AV3 + EVLQ08CV3
Space heating	Average climate	General	SCOP		3.28	3.24	3.29
	water outlet		ns (Seasonal space heating efficiency)	%	128	127	129
Domestic hot water heating	General	Declared load profile			A++		
	Average climate	rw (water heating efficiency)		%	XL		
Cooling capacity	Nom.	Water heating energy efficiency class			83.80		
					A		
Power input	Heating	Nom.		kW	4.40 (1) / 4.03 (2)	7.40 (1) / 6.89 (2)	7.40 (1) / 6.89 (2)
COP	Cooling	Nom.		kW	0.870 (1) / 1.13 (2)	1.66 (1) / 2.01 (2)	1.66 (1) / 2.01 (2)
EER					5.04 (1) / 3.58 (2)	4.45 (1) / 3.42 (2)	4.45 (1) / 3.42 (2)
Indoor unit (Hydrobox & Boiler)					EHYHBH05AV32	EHYHBH08AV32	EHYHBX08AV3
Central heating	Heat input Q _h (net calorific value)	Nom	Min/Max	kW	-	-	6.20 / 7.60 / 7.60 / 22.10 / 27 / 27
	Output P _h at 80/60 °C	Min/Nom		kW	-	-	6.70 / 8.20 / 8.20 / 21.80 / 26.60 / 26.60
Domestic hot water	Efficiency	Net calorific value		%	-	-	98 / 107
	Operation range	Min/Max		°C	-	-	15 / 80
Gas	Output	Min/Nom		kW	-	-	7.60 / 32.70
	Water flow	Rate	Nom	l/min	-	-	9 / 15
Supply air	Operation range	Min/Max		°C	-	-	40/65
	Connection	Diameter		mm	-	-	15
Flue gas	Consumption (G20)	Min/Max		m³/h	-	-	0.78 / 3.39
	Consumption (G25)	Min/Max		m³/h	-	-	0.90 / 3.93
Casing	Consumption (G31)	Min/Max		m³/h	-	-	0.30 / 1.29
	Connection	Concentric		mm	-	-	100
Dimensions	Unit	Height x Width x Depth	Casing	mm	30	31.20	710 x 450 x 240
	Weight	Unit	Empty	kg	-	-	36
Power supply	Phase/Frequency/Voltage			Hz/V	-	-	1 ~ /50/230
Electrical power consumption	Max.			W	-	-	55
Operation range	Heating	Ambient	Min. ~ Max.	°C	-25 ~ 25	-	-
Refrigerant	Water side	Min. ~ Max.		°C	25 ~ 55	-	-
	Cooling	Ambient	Min. ~ Max.	°CDB	- ~ -	10 ~ 43	-
Outdoor unit	Water side	Min. ~ Max.		°C	- ~ -	5 ~ 22	-
Outdoor unit					EVLQ05CV3	EVLQ08CV3	
Dimensions	Unit	Height x Width x Depth		mm	54	735 x 832 x 307	56
Weight	Unit			kg	-	-	-
Compressor	Quantity				1	1	1
Operation range	Heating	Min. ~ Max.		°CWB	-25 ~ 25	-25 ~ 25	-
Refrigerant	Type				R-410A	R-410A	-
	GWP				2,088	2,088	-
Sound power level	Charge			kg	1.50	1.60	-
	Charge			TCO ₂ /Eq	3	3.30	-
Sound pressure level	GWP				2,088	2,088	-
	Heating	Nom.		dBA	61	62	-
Power supply	Heating	Nom.		dBA	48	49	-
	Name/Phase/Frequency/Voltage			Hz/V	V3/1 ~ /50/230	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



BLUEevolution

	CHYHBH-A		CTXA-AW/BS/BS/BB		FTXA-AW/BS/BS/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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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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 Average climate	Declared load profile η _{wh} (water heating efficiency)	XL						
				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	902 x 450 x 164			
Weight	Unit		kg	30			
Operation range	Heating	Ambient	Min. ~ Max.	-15 ~ 24			
		Water side	Min. ~ Max.	25 ~ 50			

Indoor unit (Boiler)				EHYKOMB33AA2/AA3	
Central heating	Heat input Q _n (net calorific value)	Nom	Min/Max	kW	
				6.20 / 7.60 / 7.60 / 22.10 / 27 / 27	
	Output P _n at 80/60°C	Min/Nom		kW	
				6.70 / 8.20 / 8.20 / 21.80 / 26.60 / 26.60	
Domestic hot water	Efficiency	Net calorific value		%	
				98 / 107	
	Operation range	Min/Max		°C	
				15 / 80	
Gas	Output	Min/Nom		kW	
				7.60 / 32.70	
	Water flow	Rate	Nom	l/min	
				9 / 15	
Supply air	Operation range	Min/Max		°C	
				40 / 65	
	Connection	Diameter		mm	
				15	
Flue gas	Consumption (G20)	Min/Max		m³/h	
				0.78 / 3.39	
	Consumption (G25)	Min/Max		m³/h	
				0.90 / 3.93	
Casing	Consumption (G31)	Min/Max		m³/h	
				0.30 / 1.29	
	Connection			mm	
				100	
Dimensions	Concentric				
				1	
	Connection			mm	
				60	
Weight	Colour			White - RAL9010	
	Material			Precoated sheet metal	
	Unit	HeightxWidthxDepth	Casing	mm	
				710 x 450 x 240	
Power supply	Unit	Empty		kg	
				36	
	Phase/Frequency/Voltage			Hz/V	
				1 ~ /50/230	
Electrical power consumption	Max.			W	
	Standby			W	
				55	
				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)	EKRTR1
		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
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 Bracket Top Inox Dn.100	EKFGP6337
Support Bracket Top Inox Dn.130	EKFGP6353
Tee Flex 100 Boiler Connectionset 1	EKFGP6368
Tee Flex 130 Boiler Connectionset 1	EKFGP6215
Thermistor recirculator	EKTH2
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	DRWTER60100AA

Flue gas connections



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



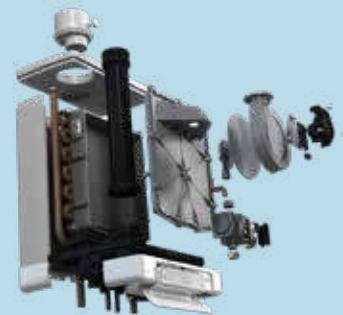
Flexible installation

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

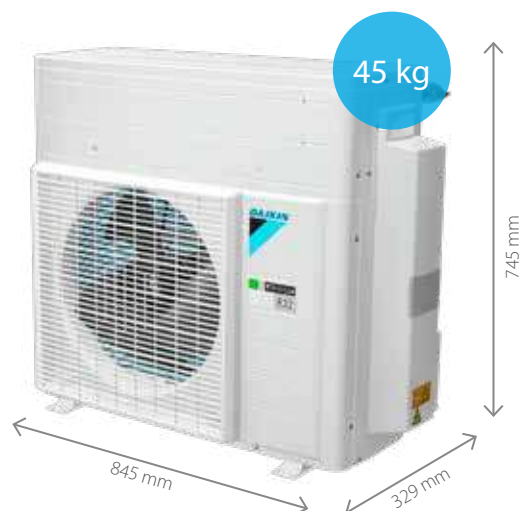
No need of other parts, the pump group is integrated inside.

BLUEVOLUTION

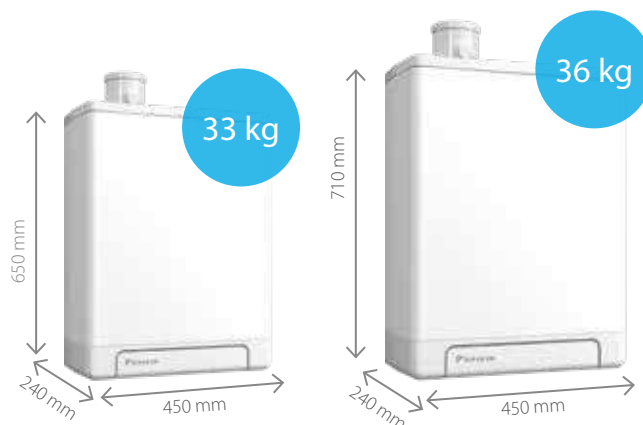
The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

Installation possibilities

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



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

Pressureless tanks with solar support

Connect your unit to a ECH₂O thermal store and take advantage of the energy of the sun.



Pressurized tanks

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



Controllers

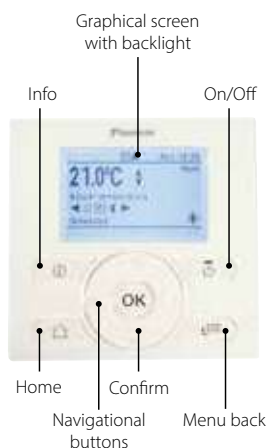
EKRUHML1/2

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.



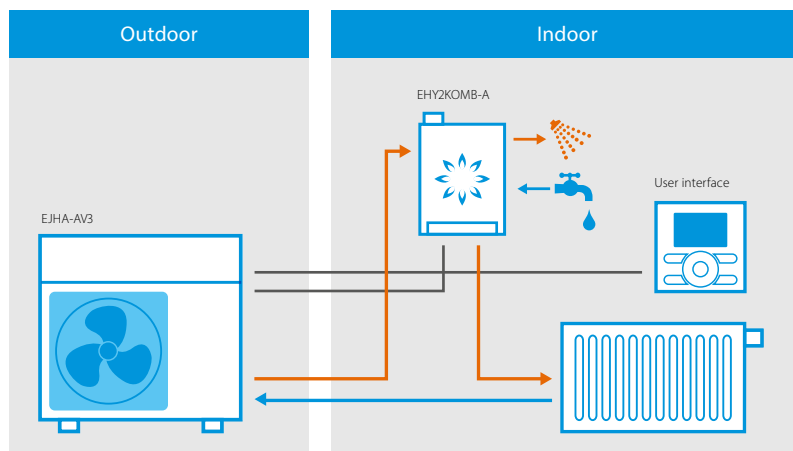
Control your heating system with your voice



Applications

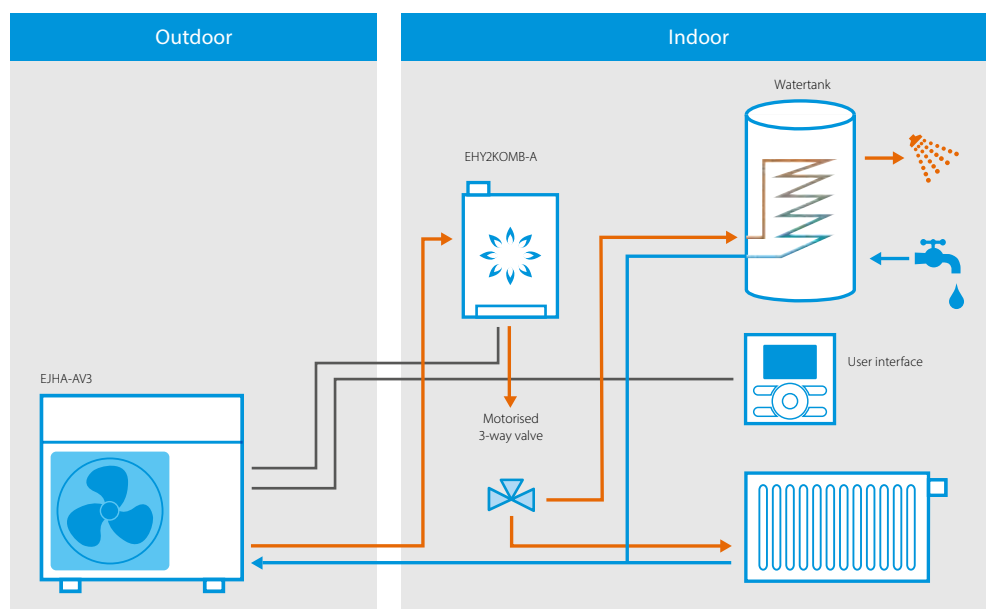
1. Standard Hybrid operation

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.



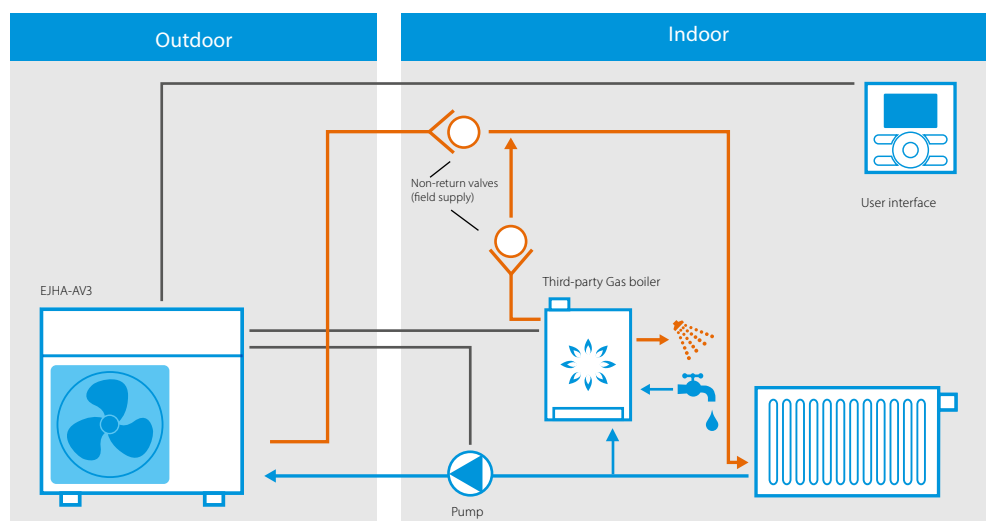
1.1 Standard Hybrid operation with a tank

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 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



A++



A

R-32


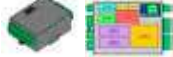








011-1W0293

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	
Domestic hot water heating			ηs (Seasonal space heating efficiency)			163		
			Seasonal space heating eff. class			A++		
	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 Q _n (net calorific value)	Nom	Min/Max	kW	7.10 / 23.70		7.60 / 27	
	Output P _n 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		
Domestic hot water	Operation range	Min/Max		°C		30 / 90		
	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		m³/h	0.74 / 3.02		0.79 / 3.39	
	Consumption (G31)	Min/Max		m³/h	0.28 / 1.15		0.30 / 1.29	
Supply air	Connection			mm		100		
	Concentric					1		
Flue gas	Connection			mm		60		
	Casing					White - RAL9010		
	Material					Precoated sheet metal		
Dimensions	Unit	HxWxD	Casing	mm	650 x 450 x 240		710 x 450 x 240	
Weight	Unit	Empty		kg	33		36	
Power supply	Phase/Frequency/Voltage			Hz/V		1 ~ /50/230		
Electrical power	Max.			W		110		
consumption	Standby			W		2		
Outdoor unit					EJHA04AAV3			
Dimensions	Unit	HxWxD		mm	745 x 845 x 329			
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			TCO ₂ Eq	0.38			
Sound power level	Heating	Nom.		dB(A)	58.70			
Sound pressure level	Heating	Nom.		dB(A)	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	EKRTR1	•	
		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)	EKBPH04JH	•	•
		Ball valves	EKBALLV1	•	•
		Add-on: pump	EKADDONJH		•
		Add-on: cable + 2 non-return valves	EKADDONJH2		•
		PC USB cable	EKPCCAB(4)	•	
		Connection kit for 3 rd 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 EKRTR1.

Options - boiler

Accessory		Sales region	Material name		
Boiler options		IT, ES, CZ, GR, PL, PT	EKFJM1A	EHY2KOMB28AA	EHY2KOMB32AA
		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 Connectionset 1	EKFGP6368
	Tee Flex 130 Boiler Connectionset 1	EKFGP6215
	Thermistor recirculator	EKTH2
	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

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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.



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 ECH₂O 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.

Condensing technology

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

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

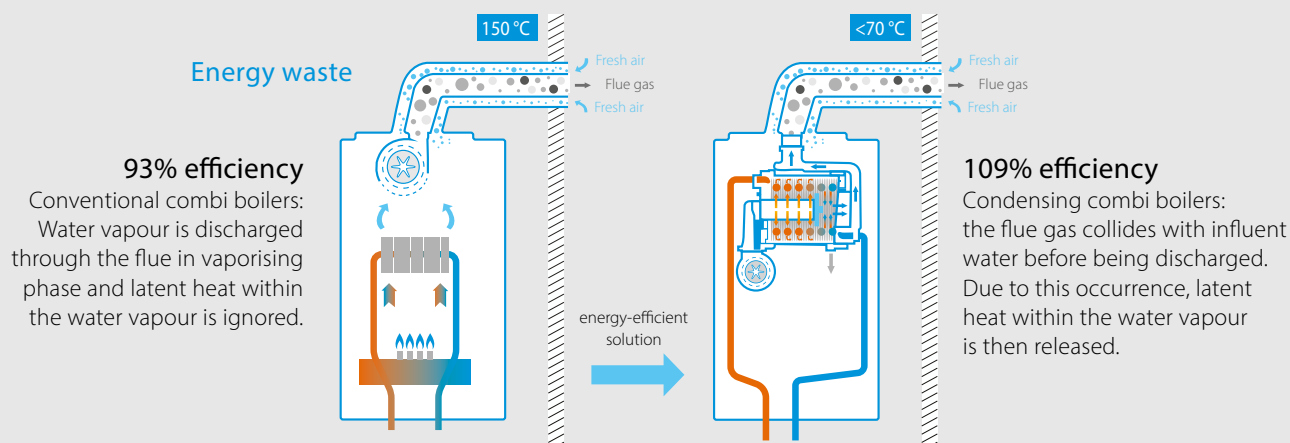
Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NO_x and CO, to ensure high cost savings and environmentally-friendly operation.



✓ 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.



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



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

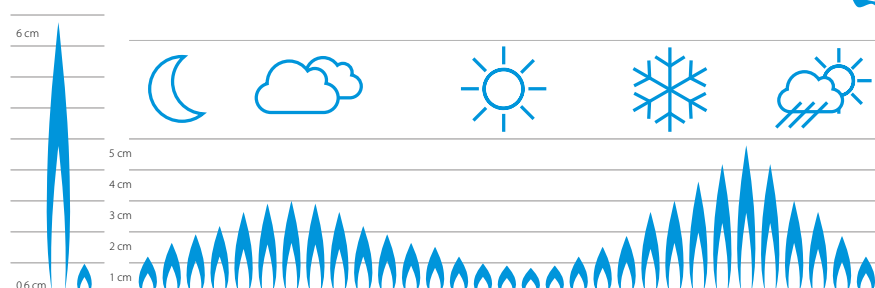
- › Stylish interface appeals to all end-users
- › State-of-the-art technology meets user-friendly design
- › The side details and convex front panel deliver an integrated view

Most compact

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

✓ High modulation rate

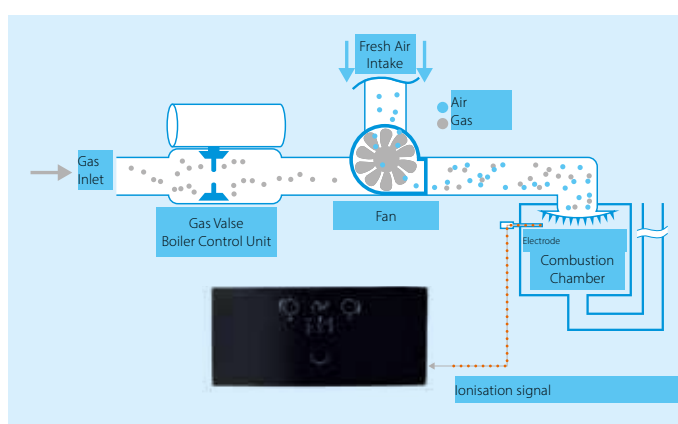
The opportunity to adjust the burner power ensures the seamless and continuous operation of the device. Smooth functioning of the system means increased comfort, a low risk for system failure and the ability to neutralise harmful substance emissions that may occur during ignition. Modulation is also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

27 kg

37 kg

590 mm

690 mm

256 mm

400 mm

295 mm

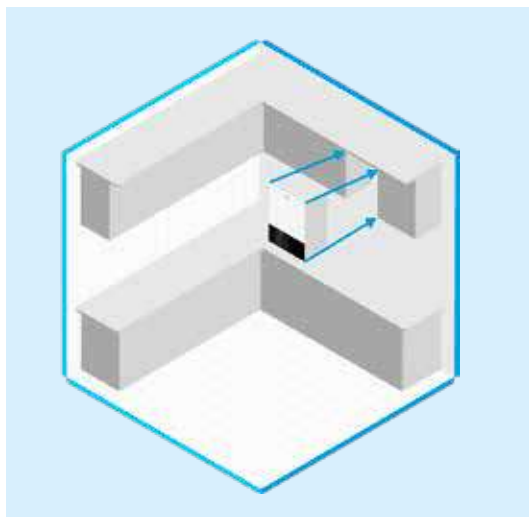
440 mm



**reddot award 2018
winner**

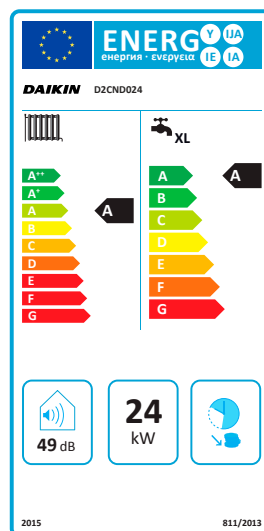
Easy installation & maintenance

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



High energy class

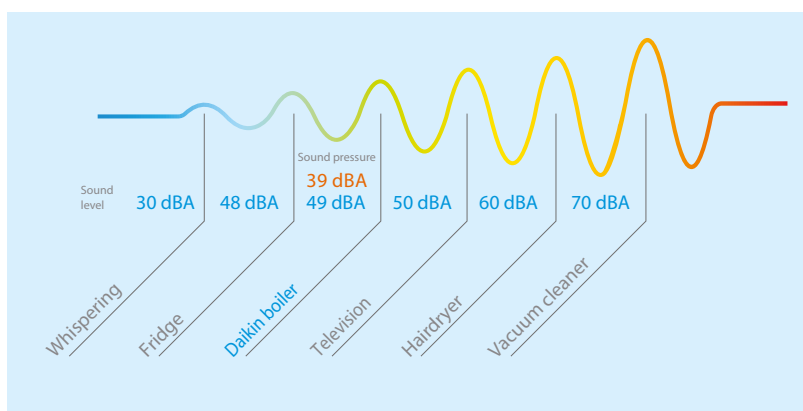
Energy Class A adheres to European ERP Standards.



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.



Compact size

Measuring only 0.06 m³, this slim, state-of-the-art design combines power with aesthetics.



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.



High energy class

Efficiency class according to EU Ecodesign Lot1 (A).



Full condensation

Latent heat from the flue gas is obtained and added to the system, leading to both increased efficiency and energy savings.



Lambda Gx system

Superior combustion technology delivers unparalleled efficiency and energy savings.



Comfort mode

The DK combi boiler is designed to provide optimal comfort levels.



Premix combustion

Achieves an efficient combustion process by creating the perfect combination of air and gas before it reaches the burner.



Electrical Protection

Safe combi boiler with a protection class of IP5D.



Lcd display

Eye-catching and user-friendly design.



Efficiency

Achieves up to 109% efficiency with full condensation.



Double heat exchanger

The device uses a Daikin-specific main exchanger equipped with in-house technology and a stainless steel domestic water exchanger.



Frequency controlled pump

The frequency control monitors power consumption to boost efficiency and save energy.



Easy maintenance

Details in design allows for easy maintenance.



Quiet

Delivers a very low sound level that reflects the new EU standards.



Onecta App

Control your indoor unit from any location via app (optional LAN adapter).



Thermo regulation



The device runs the system based on data obtained from the outside temperature sensor and room thermostat.

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



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 connection diameter				19 (3/4") Male									
Gas		Consumption (G20)	Min/Max	m³/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	m³/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	m³/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			mm					Yes				
Flue gas	Connection			mm					60				
 Space heating	General	ns (Seasonal space heating efficiency)		%					93				
		Seasonal space heating eff. class			A								
 Domestic hot water heating	General	Declared load profile			-				XL				
		gwh (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	Height x Width x Depth	Casing	mm	590 x 400 x 256			690 x 440 x 295		590 x 400 x 256	690 x 440 x 295		
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	
	Standbv			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.

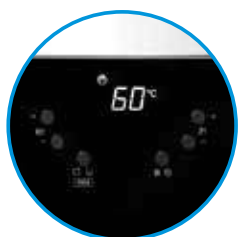
Neat design

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.

A



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



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		m³/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	590 x 400 x 256
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 exchanger 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



EKOMB-AH



Indoor unit				EHOB	G12A	G18A	12AH	18AH	42AH
Central heating	Heat input Q _n (net calorific value)	Nom	Min/Max	kW	3.80 / 12.50	5.60 / 18.70	3.50 / 11.80	5.60 / 18.70	7.80 / 42.50
	Heat input Q _n (gross calorific value)	Nom	Min/Max	kW	4.20 / 13.90	6.20 / 20.80	3.90 / 13.10	6.20 / 20.80	8.70 / 47.20
	Output P _n at 80/60 °C	Min/Nom		kW	- / 12.20	- / 18.20	3.40 / 11.50	5.40 / 17.80	7.70 / 40.90
	Output P _{nc} at 50/30 °C	Min/Nom		kW	- / -		3.80 / 12	5.90 / 18.70	8.50 / 42.20
	Water pressure (PMS)	Max		bar	3				
	Water temperature	Max		°C	90				
Gas	Operation range	Min/Max		°C	30 / 90				
	Connection	Diameter		mm	15				
	Consumption (G20)	Min/Max		m ³ /h	0.36 / 1.30	0.58 / 1.94	0.36 / 1.22	0.55 / 1.94	0.81 / 4.41
	Consumption (G25)	Min/Max		m ³ /h	0.42 / 1.50	0.67 / 2.25	0.42 / 1.42	0.64 / 2.25	0.94 / 5.10
Supply air	Concentric				60 / 100				
	Flue gas	Connection		mm	60				
Space heating	General	η _s (Seasonal space heating efficiency)		%	92		91		
		Seasonal space heating eff. class			A				
Casing	Colour				White - RAL9010				
	Material				Precoated sheet metal				
Dimensions	Unit	Height x Width x Depth	Casing	mm	590 x 450 x 240				710 x 450 x 240
Weight	Unit	Empty		kg	30				36
Power supply	Phase/Frequency/Voltage			Hz/V	1 / 50 / 230				
Electrical power consumption	Max.			W	80				135
	Standby			W	2				4

Indoor unit				EKOMB	22AH	28AH	33AH	G22A	G28A	G33A
Central heating	Heat input Q _n (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 Q _n (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 P _n 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					
	Operation range	Min/Max		°C	40 / 65					
Domestic hot water	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	η _s (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	
		η _{wh} (water heating efficiency)		%	78	81		90	83	84
Casing	Colour				White - RAL9010					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth	Casing	mm	590 x 450 x 240	650 x 450 x 240	710 x 450 x 240	590 x 450 x 240	650 x 450 x 240	710 x 450 x 240
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)	EKV4A	•	•	•	•	•	•	•	•
	Valve kit (DE)	EKV5A						•	•	
	Valve kit (DE)	EKV6A	•	•	•	•	•			
	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		EKH075787	•							
		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)	EKH090717								
	Eccentric connection (Ø 80)	EKH090707								
	Adaptor set concentric 60/100	EKAS1A	•	•	•	•	•			

Flue-gas evacuation system

Hybrid heat pump



Daikin Altherma Hybrid

Wall mounted gas condensing boilers



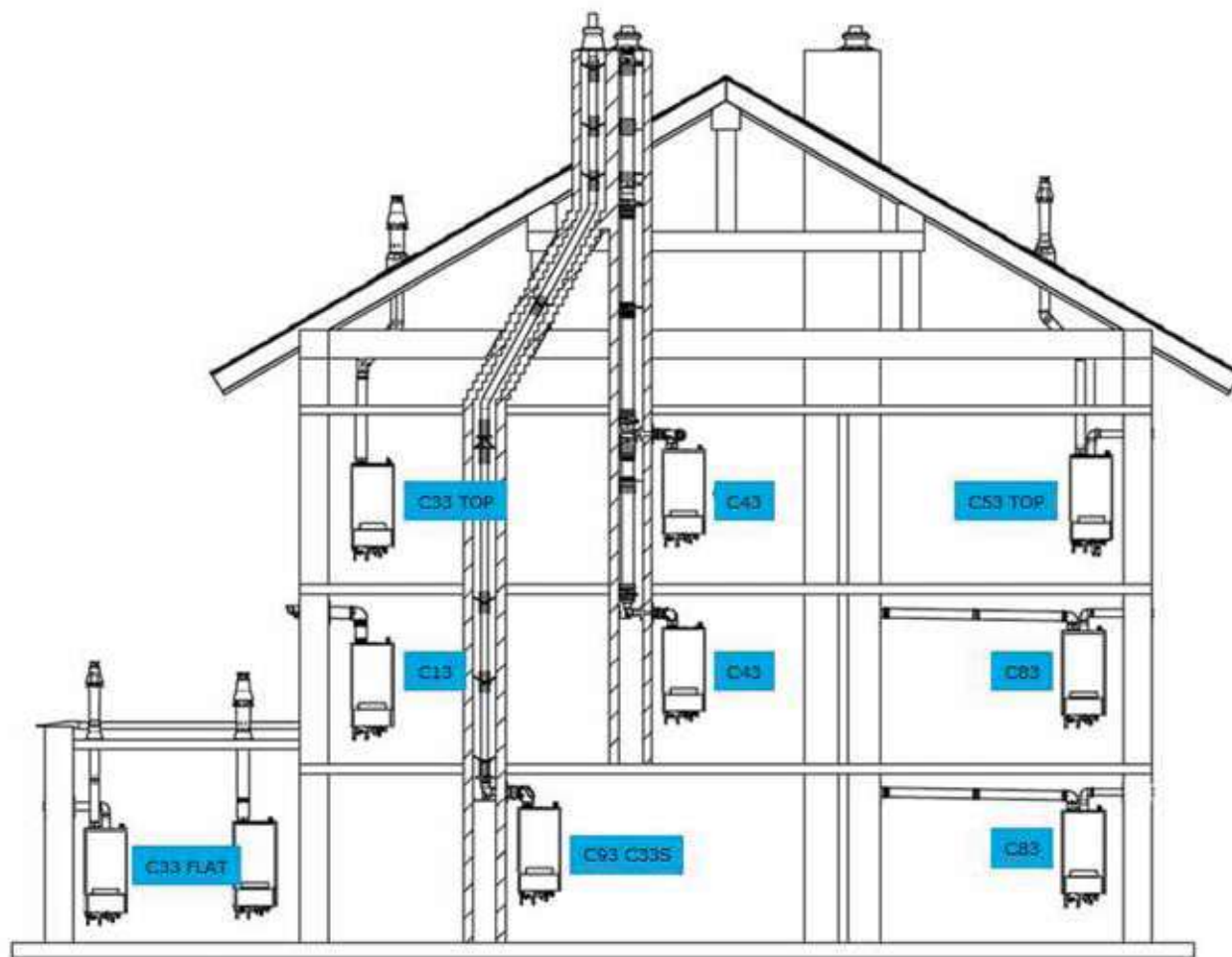
Daikin Altherma C Gas W



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

B_{xx} Type CEN/TR1749:2009 for operation dependent on ambient air

C_{xx} 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 cm² or 2 x 75 cm²)

f Ventilation (150 cm²)

- › 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

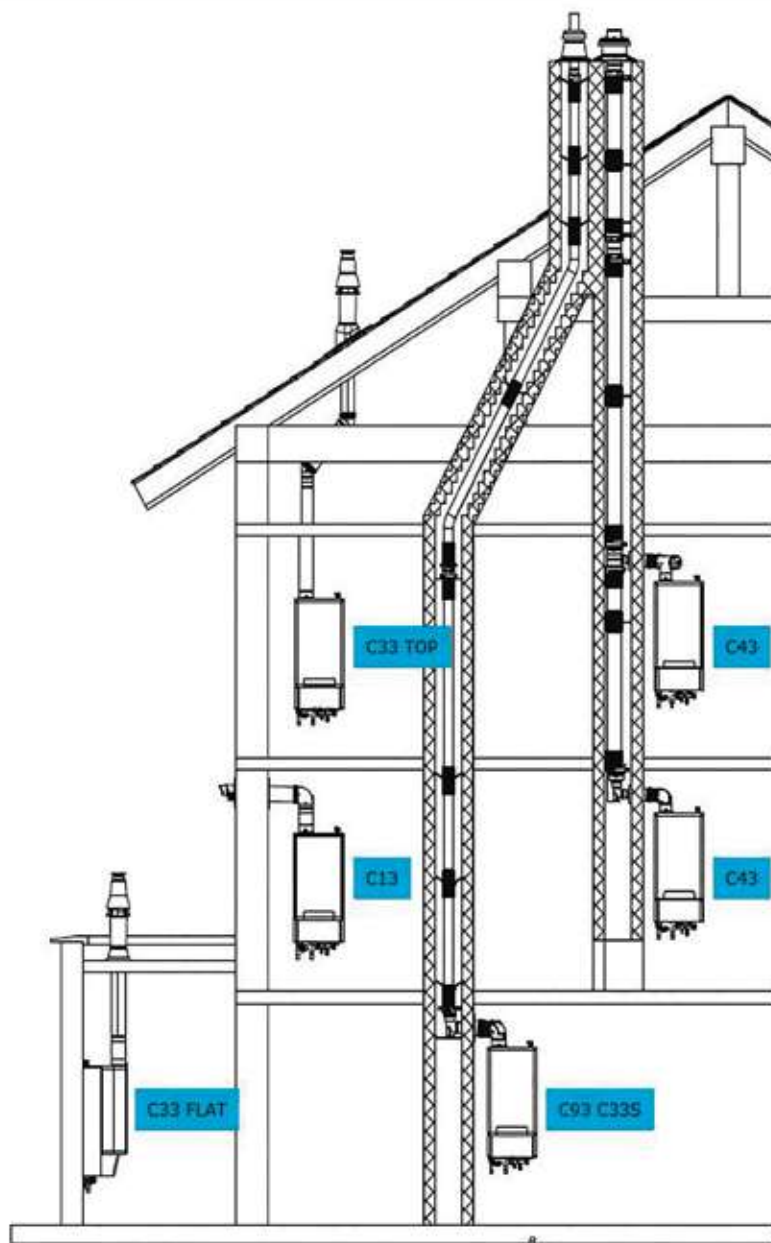
You can determine the optimal solution for your projects using the software for selecting smoke-evacuation accessories.

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

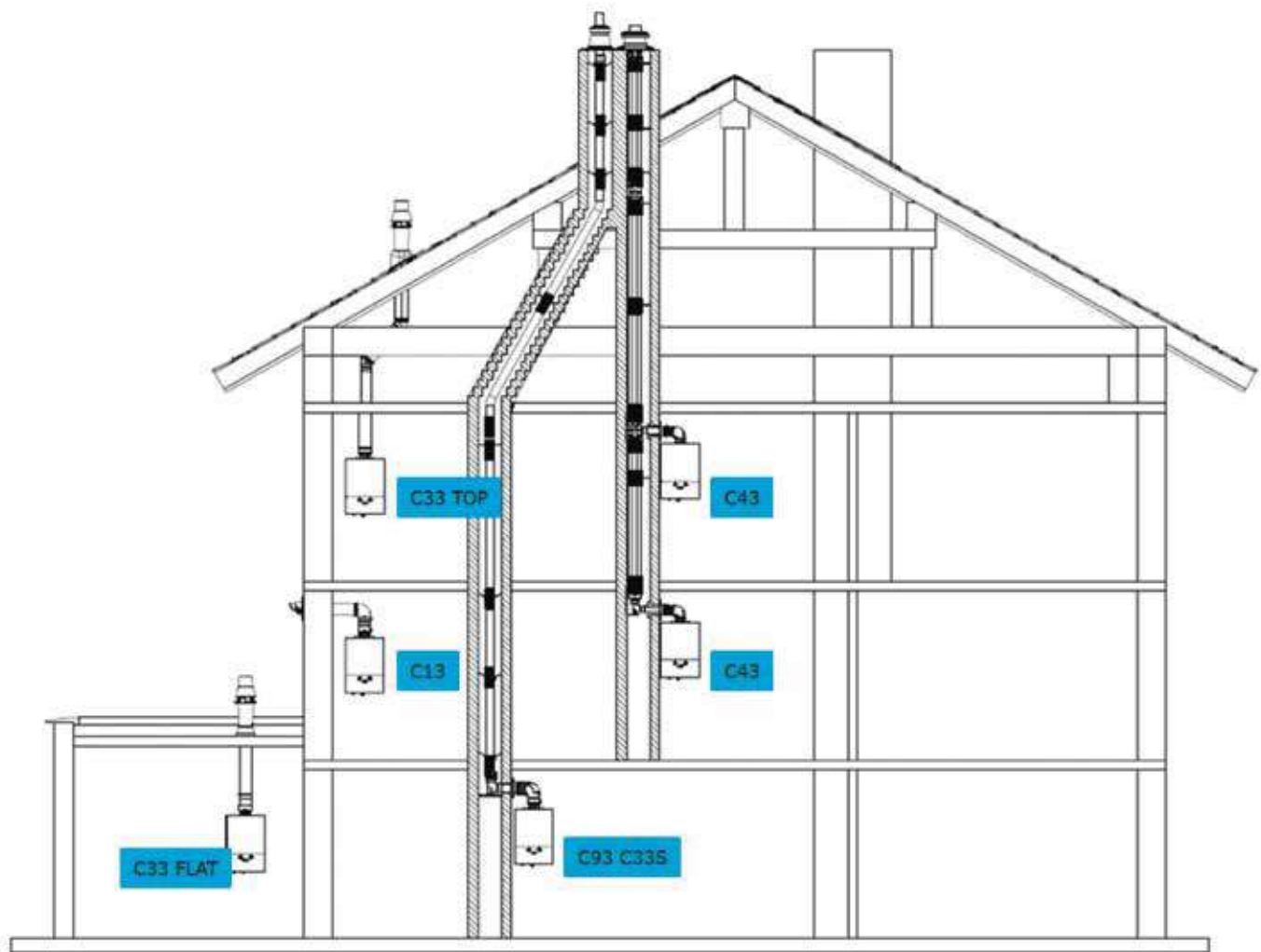
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Overview of Daikin Altherma 3 C Gas W



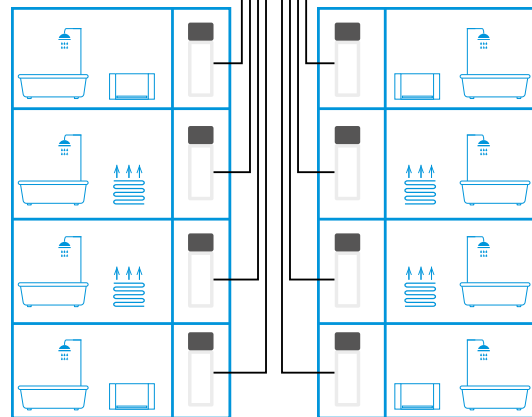
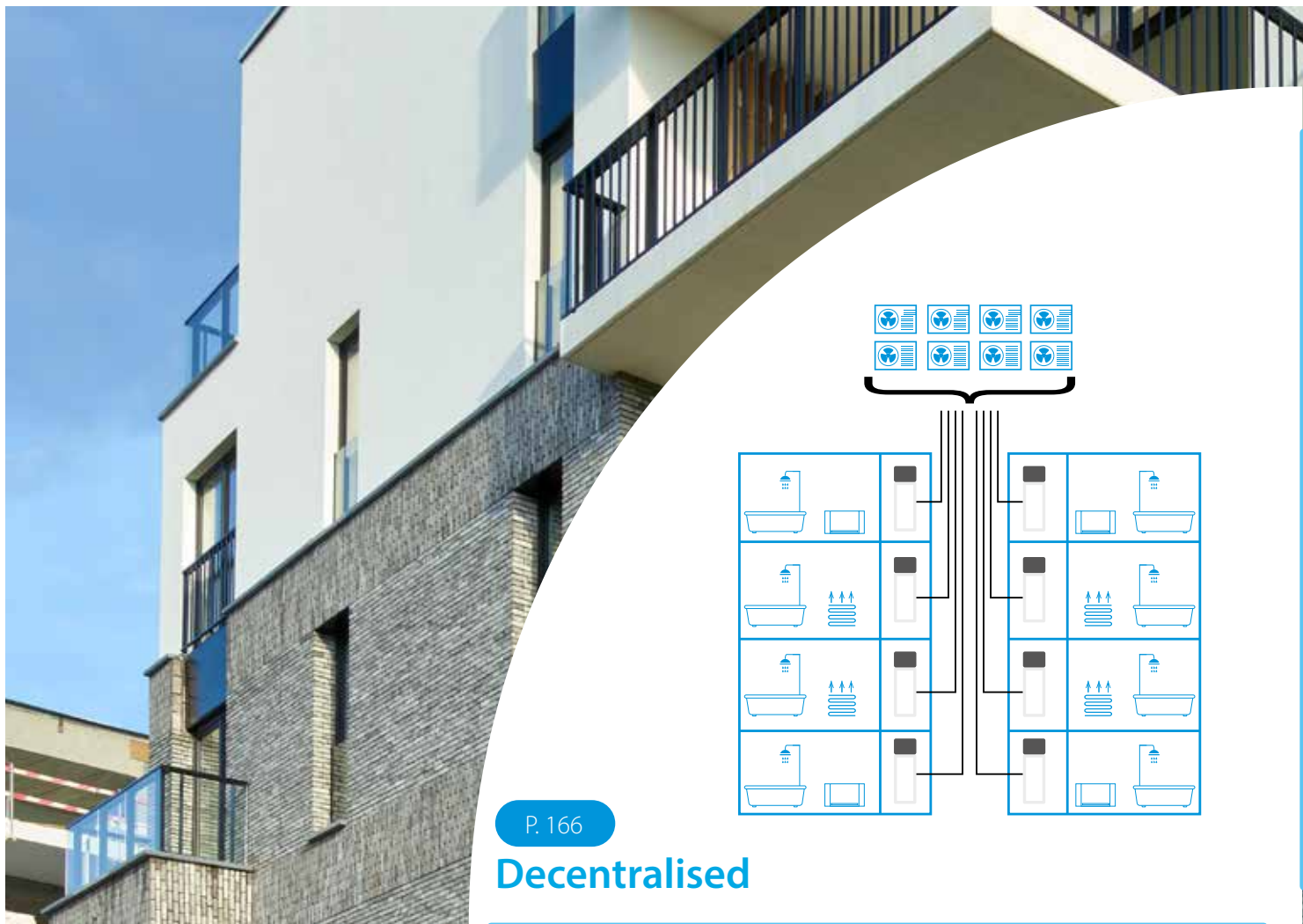
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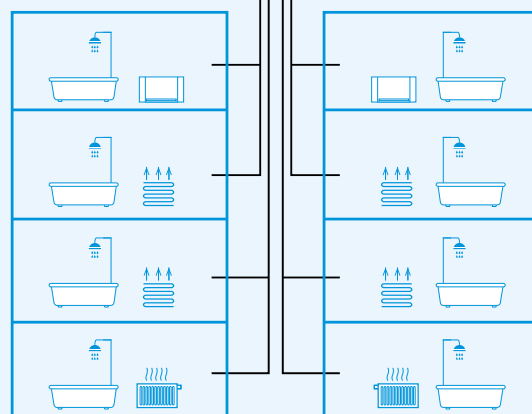
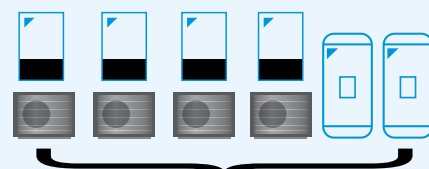


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Decentralised

Centralised

P. 167



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.

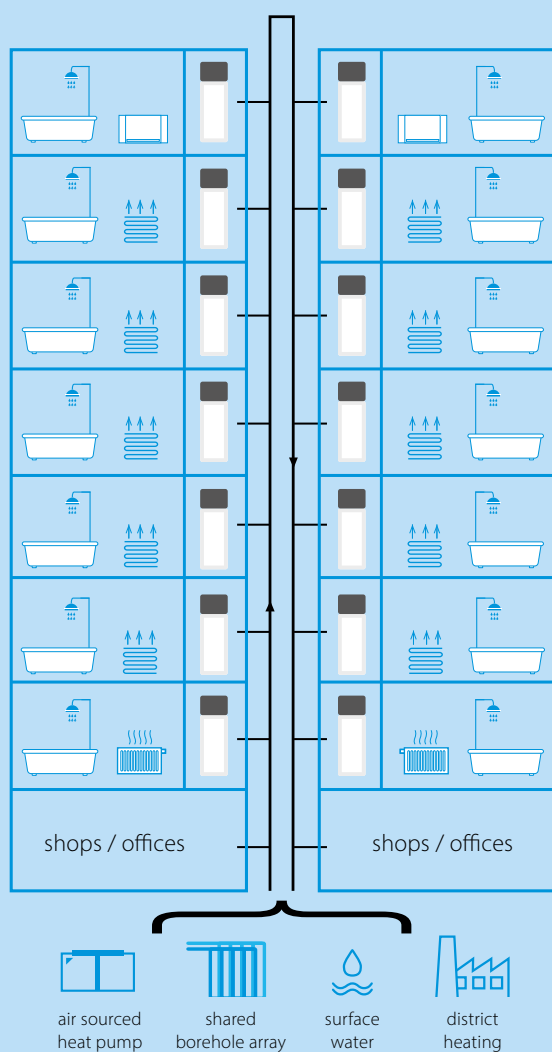
With the long lasting Daikin Altherma Flex Type series, a central solution for hot water production is also part of the portfolio.

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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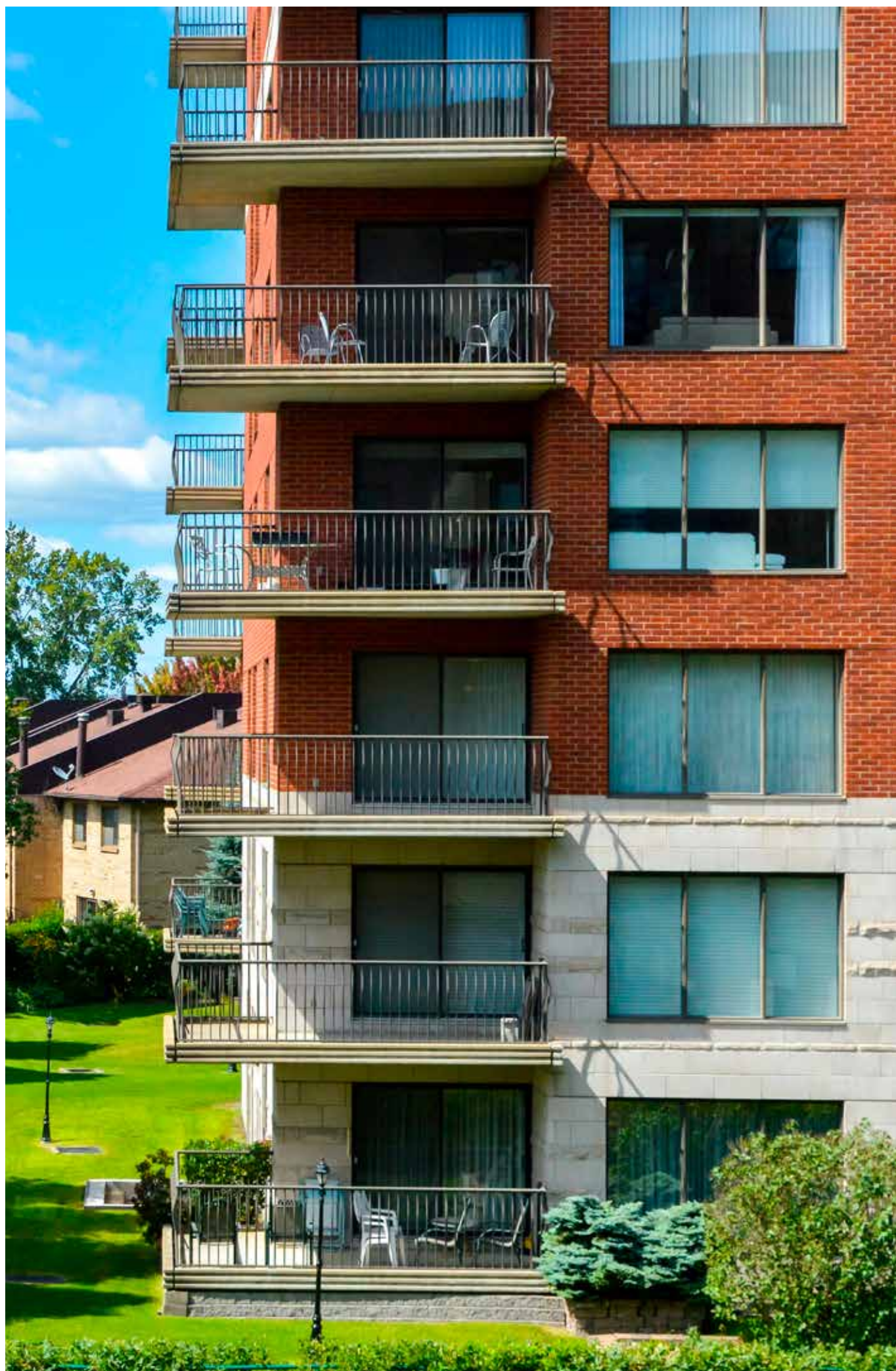


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Collective solutions

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Daikin Altherma 3 WS.....	170



Check out our collective solutions on:
[https://collectivehousing.daikin.eu/
en-GB/high-rise](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 its 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 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 is 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
- Daikin Altherma Flex HT for DHW production only

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 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 EKCC8-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 EKCC8-W for sequencing applications
- Voltage control
- Modbus control



Daikin Altherma R Flex Type HT HW

Why choose a Daikin Altherma HT Flex Type?

Daikin Altherma HT Flex Type is a centralised solution ideal for large requirements of domestic hot water like apartment buildings or commercial spaces.

✓ Comfort

Domestic hot water

- › Equipped with air-to-water heat pump technology
- › Best system to meet high demands for hot water
- › Using renewable energy from the heat pump, the system can heat the hot water tank up to 75 °C without using an electric heater

✓ Energy efficiency

- › High energy efficiency achieves high sustainability and low operation costs
- › Inverter compressor continuously adjusts the compressor speed to meet actual demand. Fewer power-consuming starts and stops result in decreased energy consumption (up to 30%) and more stable temperatures

✓ Reliability

Modular system


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



Daikin Altherma R Flex Type HT HW

- › Low energy bills and low CO₂ emissions
- › Easy installation and maintenance
- › Customised to meet your building's needs:
up to 10 indoor units can be connected to 1 outdoor unit


R-410A

Outdoor Unit				EMRQ	8AB	10AB	12AB	14AB	16AB
Heating capacity	Nom.			kW	22.40 (1)	28 (1)	33.60 (1)	39.20 (1)	44.80 (1)
 Seasonal efficiency	Domestic hot water heating	General	Declared load profile	%	XL				
		Average climate	η _{wh} (water heating efficiency)		93			83.70	93
			Water heating energy efficiency class		A				
Casing	Colour				Daikin White				
	Material				Painted galvanized steel plate				
Dimensions	Unit	Height x Width x Depth		mm	1,680 x 1,300 x 765				
Weight	Unit			kg	331			339	
Operation range	Domestic hot water	Ambient	Min. ~ Max.	°CDB	-20 ~ 35				
Refrigerant	Type				R-410A				
	GWP				2,087.5				
	Charge			kg	10.30	10.60	10.80	11.10	
				TCO ₂ eq	21.50	22.10	22.50	23.20	
Piping connections	Liquid	OD		mm	9.52		12.7		
	Suction	OD		mm	19.10	22.20	28.60		
	High and low pressure gas	OD		mm	15.90	19.10		22.20	
	Piping length	OU - IU	Max.	m	100				
		System	Equivalent	m	120				
	Total piping length		System	Actual	m	300			
Sound power level	Heating	Nom.		dBA	78		80	83	84
Sound pressure level	Heating	Nom.		dBA	58		60	62	63
Power supply	Phase/Voltage			V	3 ~ /380-415				
Current	Recommended fuses			A	20	25		40	

(1) Condition: T_a=7 °CDB/6 °CWB, 100% connection ratio
This product contains fluorinated greenhouse gases.

Options

	Type	Material name	EMRQ-AB
Drain	Central drain pan kit	KWC25C450	•
	Refnet header	KHRQ(M)22M29H8	•
	Refnet header	KHRQ(M)22M64H8	•
	Refnet joint	KHRQ(M)22M20T8	•
	Refnet joint	KHRQ(M)22M29T8	•
	Refnet joint	KHRQ(M)22M64T8	•

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 CO₂ 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

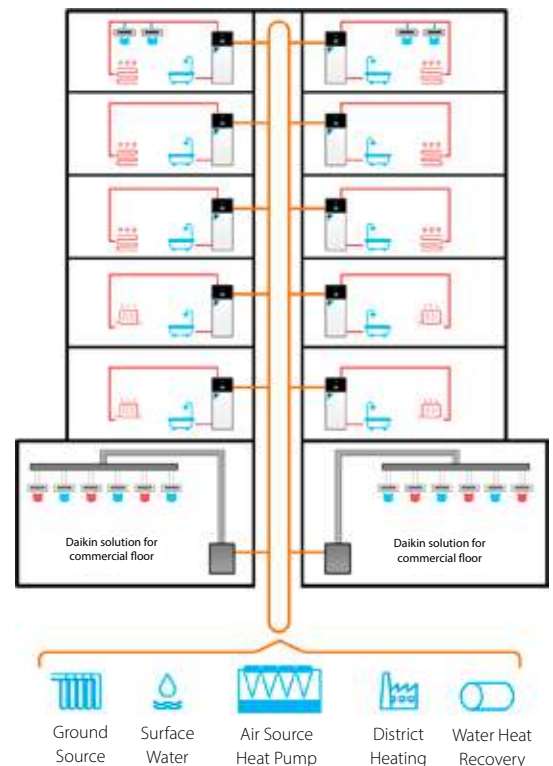
Individual heat pumps connected to a central loop

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 CO₂ 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 breakers 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.



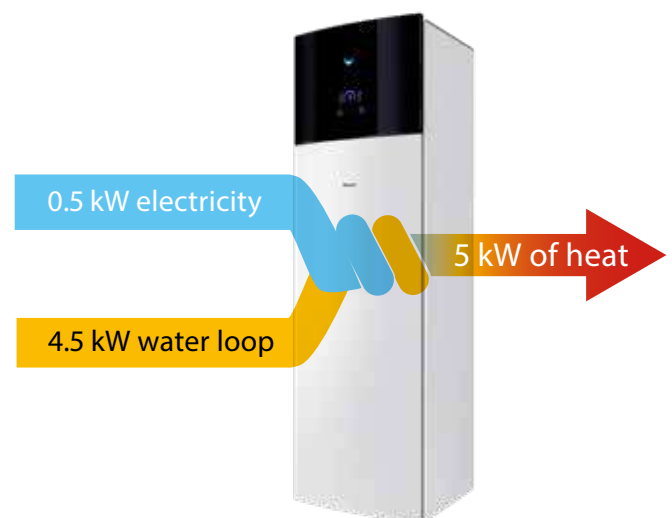
All in one integrated model

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



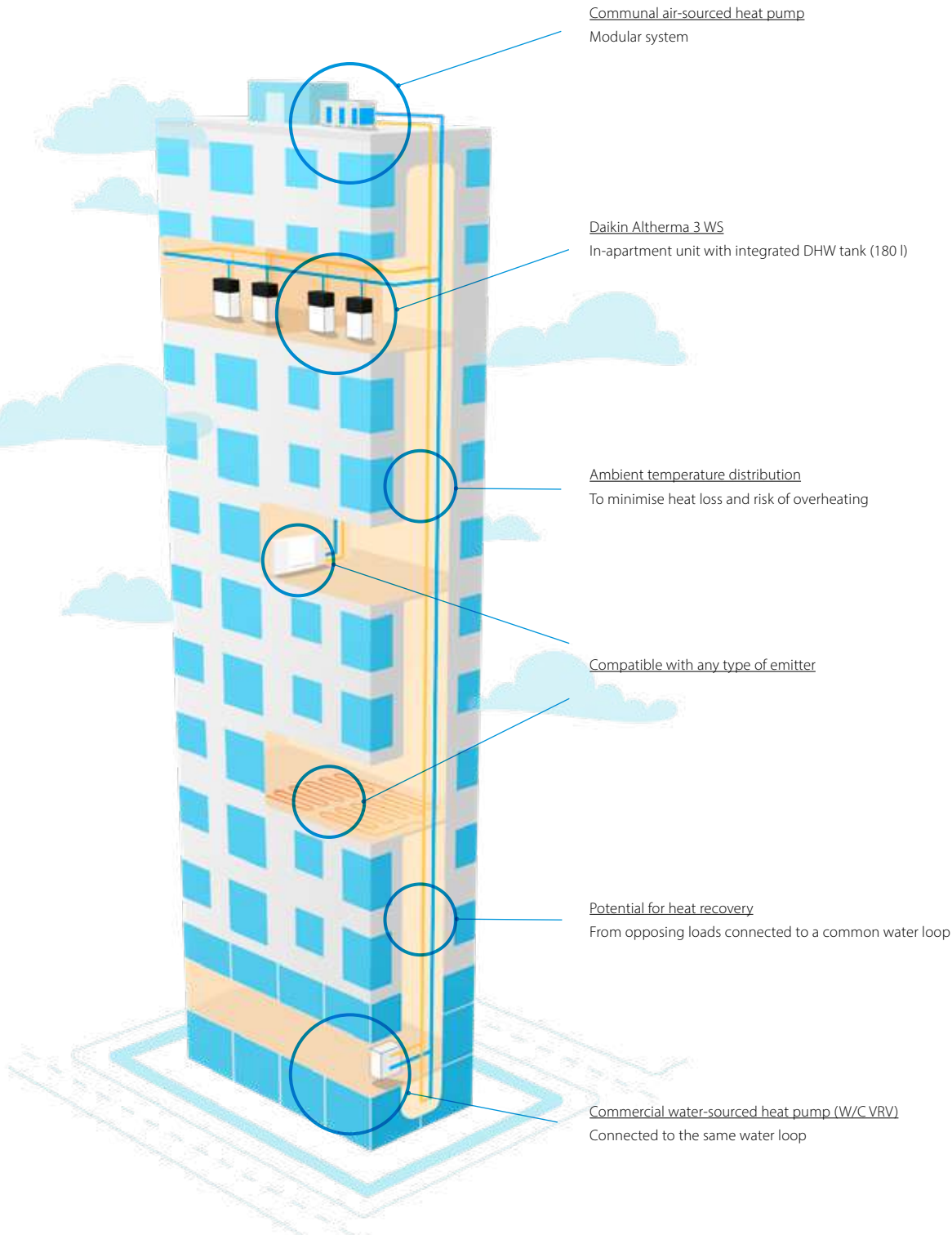


Reduction in capital costs

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.

BLUEEVOLUTION

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.



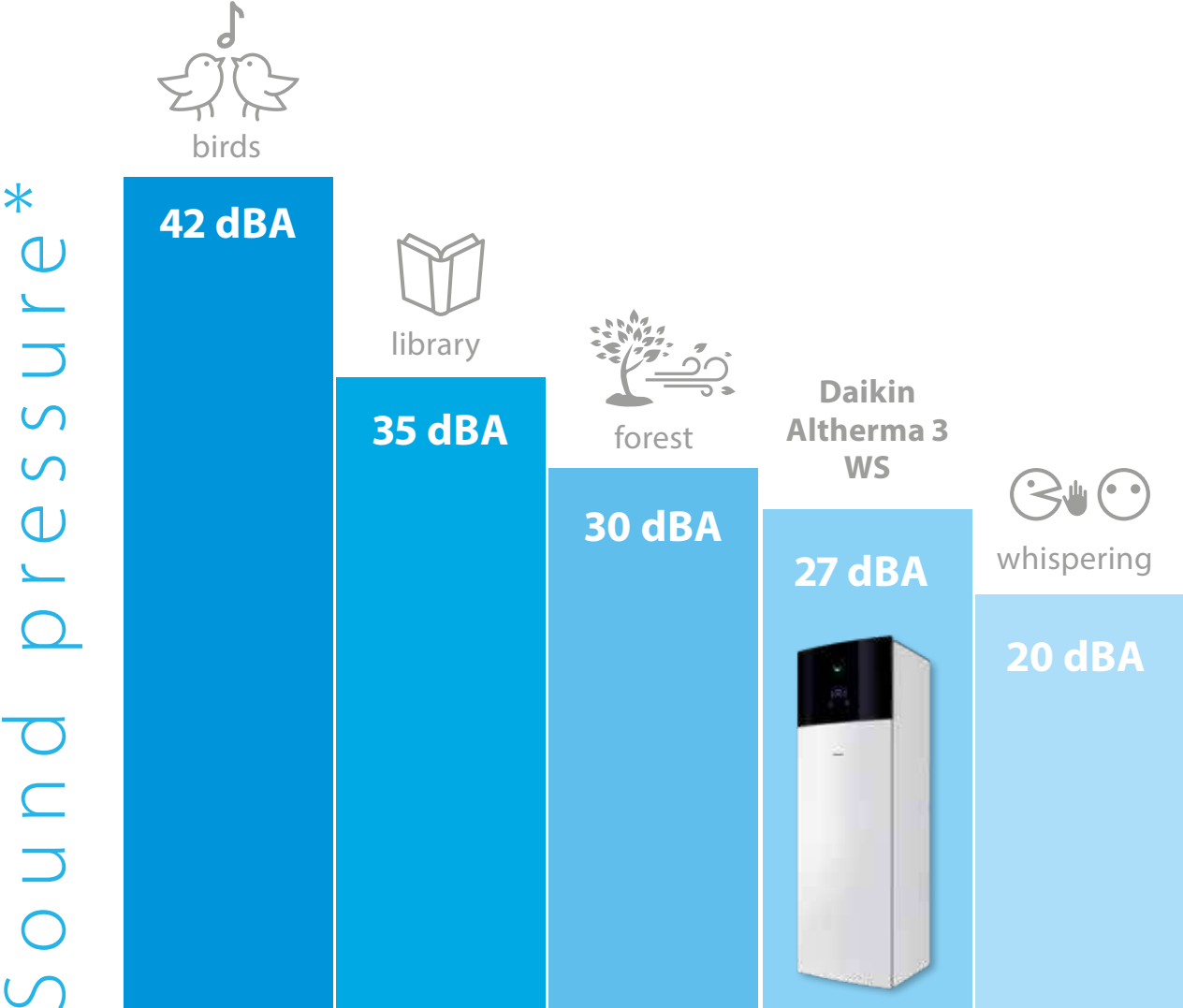
¹ Based on a block of 277 apartments with a Combined Heat & Power (CHP) system and Heat Interface Units (HIU) with CHP thermal efficiency of 48% and electrical efficiency of 32%, 60% CHP / 40% boiler, compared with a Heat Pump with a SCOP of 3.7 based on SAP2012

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's 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.



BRC1HHDW



BRC1HHDS



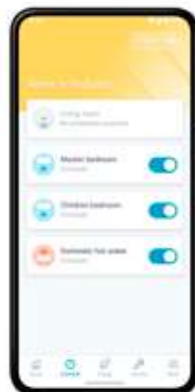
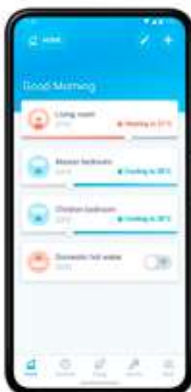
BRC1HHDK




- ✓ Sleek and elegant design
- ✓ Match any interior scheme
- ✓ Easy to use with intuitive controls



Onecta app

The Daikin Residential Controller 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 the 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.

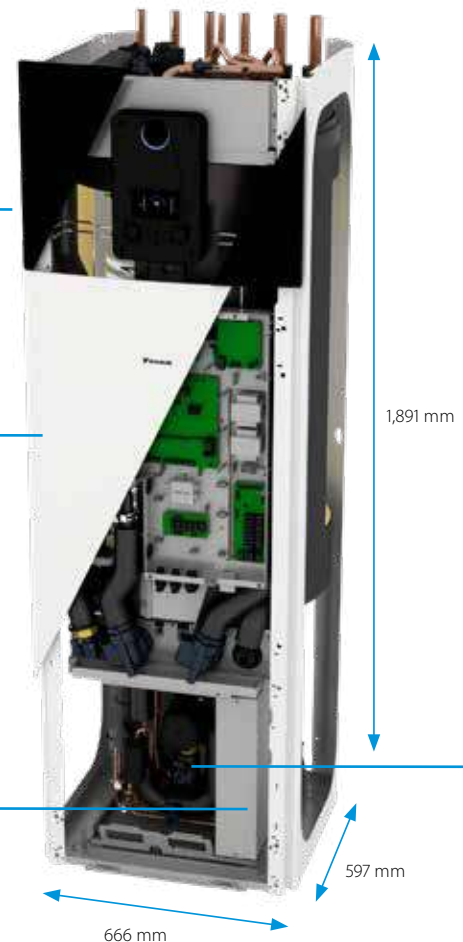


All pipe connections
on top, paired in
and out

Standard electrical
connections pre-cabled



Removable compressor module
reduces the overall weight by 70 kg



Intuitive interface

The Daikin Eye

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



Blue:

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



Red:

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



Quick to configure

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

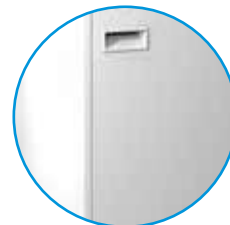
Easy operation

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

Beautiful design

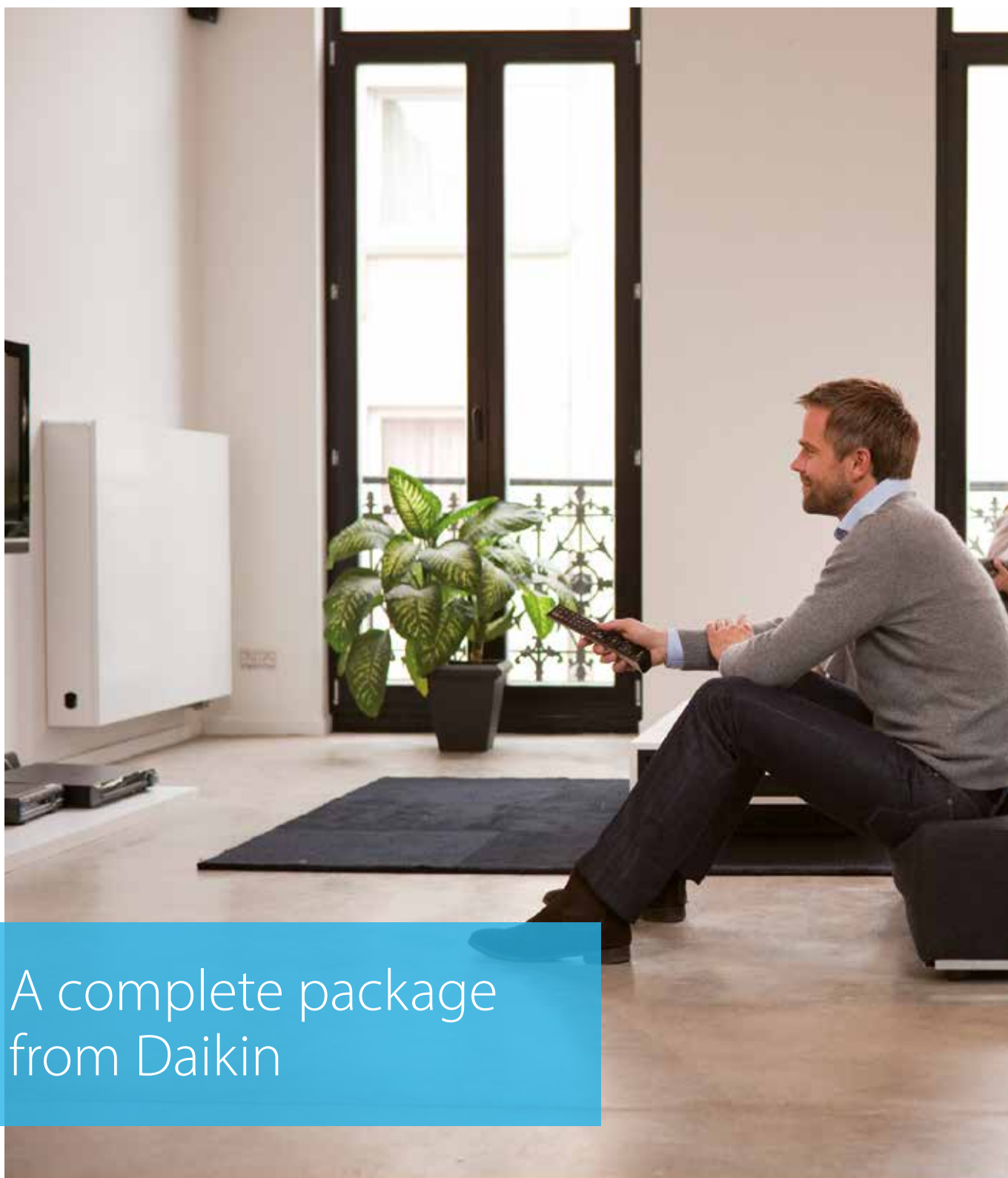
The user interface is especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

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 independant 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.



EWSA(H/X)-D9W for Collective Housing

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	Height x Width x Depth	mm		1,891 x 597 x 666	
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	
	Installation space	Min. ~ Max.	°C		5 / 35	
Operation range	Water inlet	Min. ~ Max.	°C		-10 / +30	
	Heating Water side	Min. ~ Max.	°C		5 / 65	
	Domestic Water side	Min. ~ Max.	°C		25 / 60	
	hot water					
Refrigerant	Type				R-32	
	GWP				675	
	Charge		kg		1.70	
	Charge		TCO2Eq		1.15	
	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	BRC1HHD-K/S/W	
	Wireless room thermostat	EKRTR1	
	Wired digital thermostat	EKRTRA	
	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 EKRTR	EKRTERS	Can only be used in combination with the wireless room thermostat EKRTR1
	Current sensor	EKCSNS	
Heat pump convactor	Floor standing / wall mounted / concealed	FWXV/T/M*	Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convactor (exception: LT - H/O)
	Digital I/O PCB	EKRPIHBAA	Additional relays to allow bivalent control in combination with external room thermostat are field supply.
Other options	Demand PCB	EKRPIAHTA	
	Power cable for back-up heater	EKGSPWCAB	
	Fernox magnetic filter 1"	K.FERNOXTF1	
	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)	K.FERNOXT-F1FL	
	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 CO₂ 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.

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Stainless steel tanks



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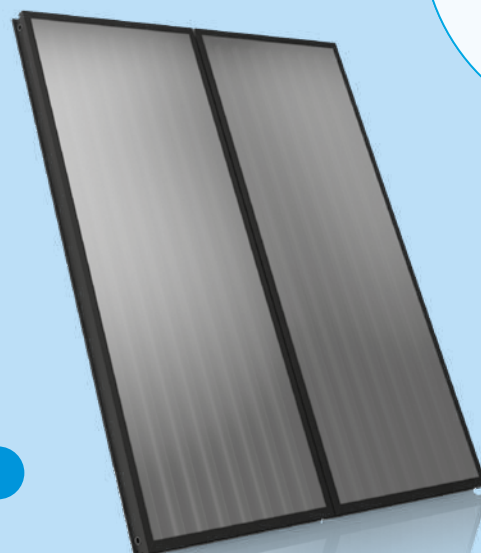
Thermal stores



PERIPH

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Thermal solar panels and accessories



Wired room thermostats

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Onecta app



HERALS

Heat pump convectors and underfloor heating

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Residential ventilation

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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

- › EKHTS-AC: available in 200 and 260 L in stainless steel
- › EKHWS(U)-BA: available in 150, 200 and 300 litres in stainless steel
- › EKHWS-BA: available for 400V applications
- › 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 ECH₂O thermal store range

ECH₂O 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

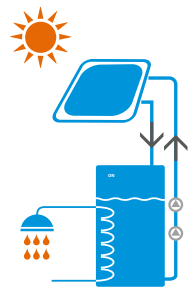
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

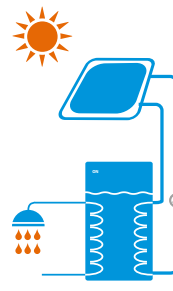
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

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

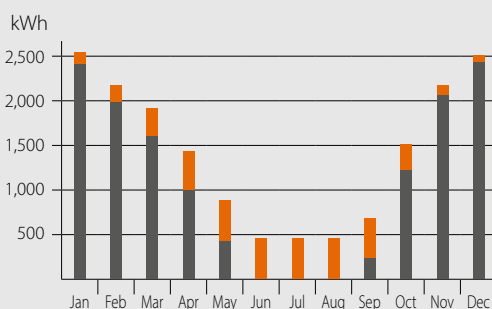
Pressureless (drain-back) solar system

- › 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

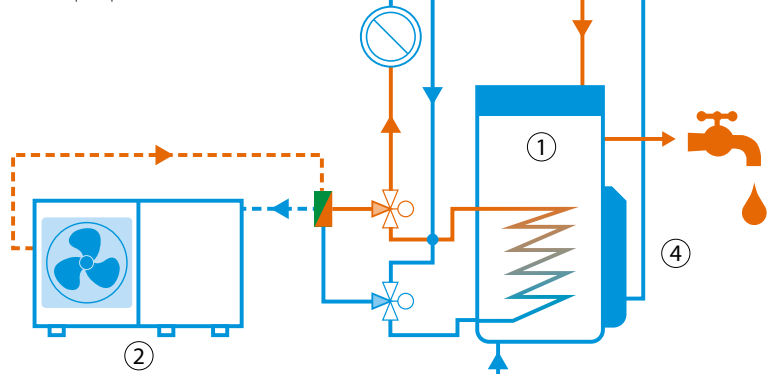
Monthly energy consumption of an average detached house



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

System diagram: Integrated solar unit

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




Daikin Altherma ST

Thermal store

Plastic domestic **hot water tank with solar support**

- › The thermal store EKHWP* is designed to work with Daikin Altherma heat pumps
- › 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
- › Available in 300 and 500 liters



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	m²	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	m²	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	m²	-	0.76	-	0.76			
		Internal coil volume	L	-	3.90	-	3.90			
		Operating pressure	bar	-	3	-	3			


Daikin Altherma ST

Thermal store

Plastic domestic **hot water tank with solar support**

- › The thermal store EKHWC* is designed to work with a gas/oil boiler
- › The thermal store EKHWD* is designed to work with boilers as well as with Daikin Altherma High Temperature
- › 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
- › Available in 300 or 500 liters



Accessory				EKHWDH 500B		EKHWDB 500B		EKHWCH 300B		EKHWCH 300PB		EKHWC 500B		EKHWCH 500B		EKHWCH 500PB		EKHWCB 500B		EKHWCB 500PB				
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)																				
	Material			Impact resistant polypropylene																				
Dimensions	Unit	Width	mm	790		595				790														
		Depth	mm	790		615				790														
Weight	Unit	Empty	kg	73	76	51	53	69	74	79	80	86												
 Tank	Water volume			L		477		294		477														
	Material			Polypropylene																				
	Maximum water temperature			°C																				
	Insulation			Heat loss		kWh/24h		1.70		1.50				1.70										
	Energy efficiency class			B																				
	Standing heat loss			W		72		64				72												
	Storage volume			L		477		294		477														
	Heat exchanger	Domestic hot water			Quantity			1																
			Tube material			Stainless steel (DIN 1.4404)																		
			Face area		m²		4.90		3.80				4.90											
			Internal coil volume		L		23.80		18.60				23.80				25.80							
			Operating pressure			bar			6															
			Average specific thermal output		W/K		2,580		1,890				2,450				2,580							
Charging			Quantity			1						-		1										
			Tube material			Stainless steel (DIN 1.4404)						-		Stainless steel (DIN 1.4404)										
			Face area		m²		2		-				2											
			Internal coil volume		L		11		9				-				9							
			Operating pressure			bar			3						-				3					
			Average specific thermal output		W/K		1,030		920				-		1,030									
Auxiliary solar heating			Tube material			-						Stainless steel (DIN 1.4404)												
			Face area		m²		-						1											
			Internal coil volume		L		-						4											
			Operating pressure			bar			6		-				6									
			Average specific thermal output		W/K		-						350											

Domestic hot water tank

Stainless steel domestic hot water tank

- › EKHTS-AC: available in 200 and 260 L in stainless steel
- › EKHWS(U)-BA: available in 150, 200 and 300 litres in stainless steel
- › EKHWS-BA: available for 400V applications
- › EKHWS(P)(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel



Accessory		EKHTS		200AC		260AC	
Casing	Colour			Metallic grey			
	Material			Galvanised steel (precoated sheet metal)			
Dimensions	Unit	Height	Integrated on indoor unit	mm	2,010		2,285
		Width		mm		600	
		Depth		mm		695	
		Height		mm	1,470		1,745
Weight	Unit	Empty		kg	70		78
	Tank	Water volume		L	200		260
Tank	Material			Stainless steel (EN 1.4521)			
	Maximum water temperature			°C		75	
	Insulation	Heat loss		kWh/24h	12		15
	Energy efficiency class					B	
	Standing heat loss			W		50	
	Storage volume			L		200	
	Quantity					1	
Heat exchanger	Tube material			Duplex steel (EN 1.4162)			
	Face area			m²		1.560	
	Internal coil volume			L		7.50	

Accessory		EKHWS(P)		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
	Empty			kg	45	50	53	63
Weight	Unit	Empty		kg	45	50	53	63
	Tank	Water volume		L	145	174	192	242
Tank	Material					Stainless steel (EN 1.4521)		
	Maximum water temperature					°C		
	Insulation	Heat loss		kWh/24h	1.10	1.20	1.30	1.40
	Energy efficiency class					B		
	Standing heat loss			W		45	50	55
	Storage volume			L		145	174	192
	Quantity					1		
Heat exchanger	Domestic hot water	Quantity				1		
	Tube material					Stainless steel (EN 1.4521)		
	Face area			m²		1.050	1.400	1.800
	Internal coil volume			L		4.90	6.50	8.20
Booster heater	Operating pressure			bar		10		
	Capacity			kW		3		
Power supply	Phase/Frequency/Voltage			Hz/V		1 ~ /50/230		

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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



Wired digital thermostat






EKWCTRDI1V3



Wired analog thermostat

EKWCTRAN1V3

Combination table

							
			BRC1HHDW/S/K	EKRUCB*	EKRUHML*	EKRUAHTB	DOTROOMTHEAA
Daikin Altherma 3 H HT (F/W)	14-16-18 kW	EPRA14-18D7 + ETV/B*-E7	•				
Daikin Altherma 3 H HT ECH2O	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 (ECH2O)	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 ECH2O	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 ECH2O	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)
BRC1HHDK



White
RAL9003 (glossy)
BRC1HHDW



Silver
RAL 9006 (metallic)
BRC1HHDS

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.



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



Wired remote controller



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.

Wired remote control for heating

EKRUCB

Control

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

Comfort

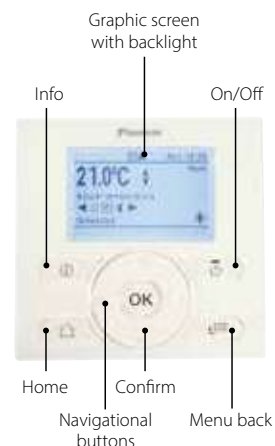
- An additional user interface can be configured to include a room thermostat in the space
- › Easy commissioning: intuitive interface for advanced menu settings

General features

Several languages available depending on the model, including English, German, Dutch, Spanish, Italian, French, Greek, Russian, etc.

Applicable Daikin units

- › Daikin Altherma R Hybrid
- › Daikin Altherma GEO





System controller for Daikin Altherma

EKRUAHTB

Control

Reduce installation time

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

Improve service diagnostics and maintenance

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

Comfort

Maximise comfort with stable room temperatures

- › Raise or lower water temperature based on the actual room temperature
- › Manage energy consumption
- › The intuitive display shows the output and input energy of the unit to provide consumption transparency

General features

Weather-dependent floating set point

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



Applicable Daikin units

- › Daikin Altherma R HT

				BRC1HHDW/S/K	EKRUCB ¹⁾	EKRUHML ¹⁾	EKRUAHTB	EKWCTRD1V3	EKWCTRAN1V3
Casing	Colour			Black / White / Silver	White	White	-	-	-
	Operation LED	Colour		Blue status indicator	Green	Green	-	-	-
Dimensions	Unit	Height	mm	85	120	120	-	86	86
		Width	mm	85	120	120	-	86	86
		Depth	mm	25	12	12	-	31	29
	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			100 x 150 dots	-	-	-	-	-
	Dimensions	Height	mm	40.70	46	46	-	-	-
		Width	mm	28	72	72	-	-	-
	Back light	Colour		White	White	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	VI	VI	VI	-	-
	Contribution to seasonal space heating efficiency			%	4	4	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	500	500	-	-

Individual wired room controllers

For the temperature adjustment of heating and cooling systems



General features

- › Improve the energy efficiency of the home
- › Universally deployable and scalable
- › Easy and intuitive installation, operation and maintenance
- › Cost-effective and convenient for the end-user

System components



Base station EKWUFHTA1V3

The Daikin Wired Base Station is the central connection unit of a room-by-room temperature control for the surface temperature adjustment of heating and cooling systems.



Wired analog thermostat EKWCTRA1V3

An optimum price-performance ratio is offered for rooms where only temperature control is desired, without the comfort function of the display variant.



Wired digital thermostat EKWCTRD1V3

The desired room temperature can be set comfortably via a rotary control with rotary-push action and soft ratchet. The well-structured and language-neutral symbols of the display clearly indicate all settings.



Valve actuator EKWCVATR1V3

The Daikin Valve Actuator is a thermoelectric valve drive used to open and close valves on heating circuit distributors of concealed heating and cooling systems.

Accessory list

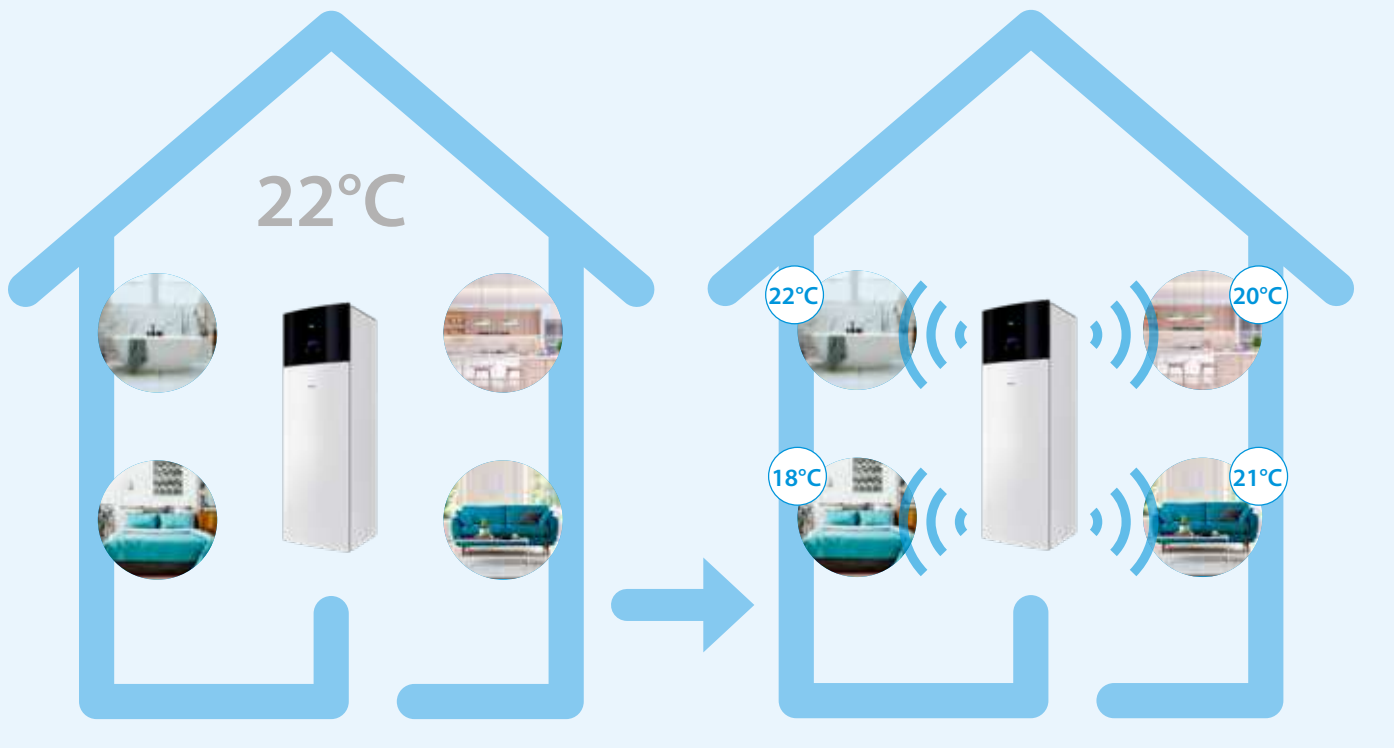
With the help of an electronic room-by-room control system, users can regulate the temperature individually in each room. In addition to the warmth output of the actual heating surfaces, the room temperature control system also takes all other heat sources into account, such as sunshine, warmth from lights or people, and other sources of warmth, such as a fireplace or a tiled stove. On the basis of a continuous comparison of the target and current temperatures, the room temperature control system opens and closes the individual heating circuits by way of electrical valve actuators.

Applicable Daikin units

Combinable with all Daikin Altherma units.

Individual wireless room controllers

Our individual wireless room controllers allow for a total flexibility in heating your home.



✓ Make energy savings

A traditional heating system makes you manage one temperature for your entire home. In most cases, you will be heating empty rooms, making you waste energy.

To avoid heating empty rooms, the alternative is to shut them off manually.

✓ Wireless control for a better flexibility

Get rid of cables and interconnect all your devices thanks to the cloud.

Our wireless range of controllers makes your life easier. As soon as they are installed, you can combine them in Onecta app.

You can then control them directly from the device itself, or from the Onecta app.



Always in control

onecta

Jump into a fully connected system!

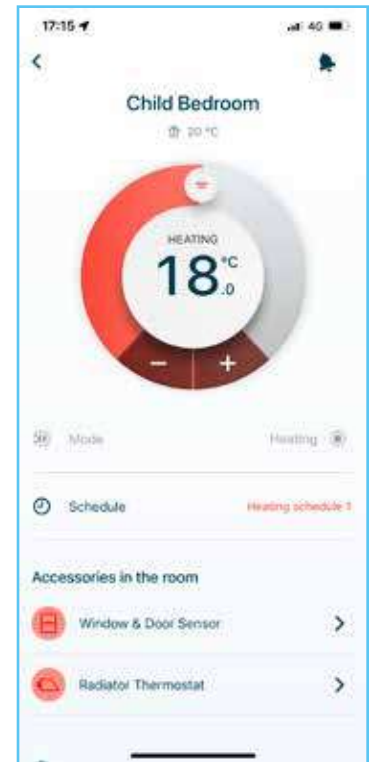
With Onecta app, you have an overview of all rooms temperatures. You can manage them individually, at home or remotely.



Room overview



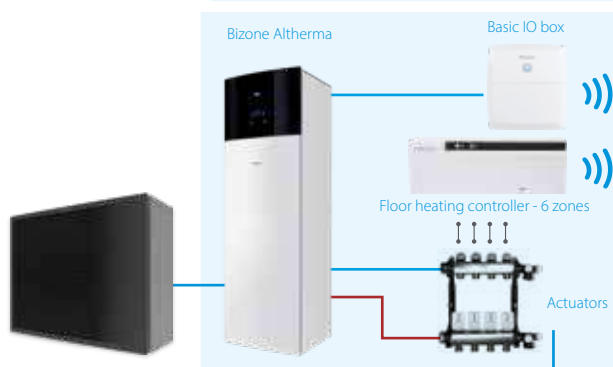
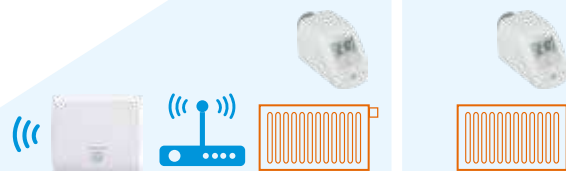
Individual room overview



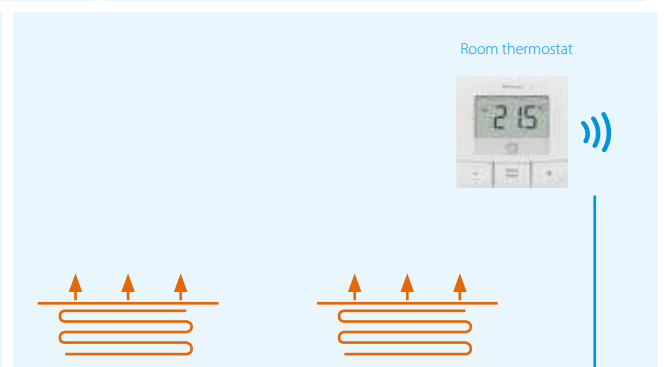
Room control made easy

You can install multiple accessories and gather them per room. They will all work according to your instructions.

Open or close the radiator valve to reach the correct set point in each room



Open or close the corresponding actuator to reach the correct set point in each room



Measure the room temperature in each room for precise room v room control

Portfolio overview



Combination table

		Outdoor unit	Indoor unit	
Air-to-water heat pump	Daikin Altherma 3 H MT Class 08-10-12	EPRA-E	Floor standing	ETVH/X/Z-E
			ECH ₂ O	ETSH(B)/X(B)-P-E
			Wall mounted	ETBH/X-E
	Daikin Altherma 3 H HT Class 14-16-18	EPRA-DV37/W17	Floor standing	ETVH/X/Z-E
			ECH ₂ O	ETSH(B)/X(B)-P-E
			Wall mounted	ETBH/X-E
	Daikin Altherma 3 R 4-6-8 kW	ERGA-EV(H)(7)	Floor standing	EHVH/X/Z-E
			ECH ₂ O	ETSH(B)/X(B)-P-E
			Wall mounted	EBBH/X-E
	Daikin Altherma 3 R 11-14-16 kW	ERLA-D	Floor standing	EBVH/X/Z-D
			ECH ₂ O	EBSH/X-D
			Wall mounted	EBBH/X-D
Ground source heat pump	Daikin Altherma 3 M 4-6-8 kW	EBLA-E		
		EDLA-E		
	Daikin Altherma 3 M 9-11-14-16 kW	EBLA-D		
		EDLA-D		
	Daikin Altherma 3 GEO		Floor standing	EGSAH/X-D
	Daikin Altherma 3 WS		Floor standing	EWSAH/X-D9W
Hybrid heat pump	Daikin Altherma R Hybrid	EVLQ-CV3	Wall mounted	EHYHBH-AV32 + EHYKOMB-A
	Daikin Altherma H Hybrid	EJHA-AV3	Wall mounted	EHY2KOMB28/32A A

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 heating system from their smartphone.



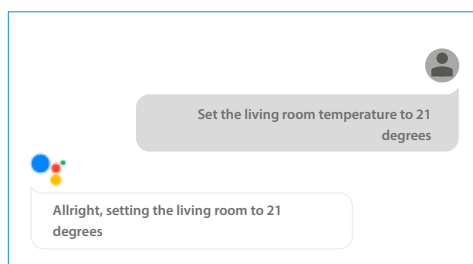
onecta

NEW

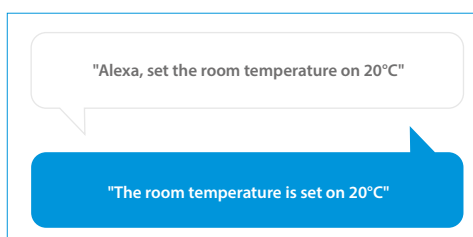
Voice control

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.

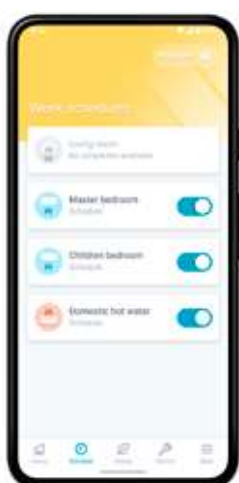
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant



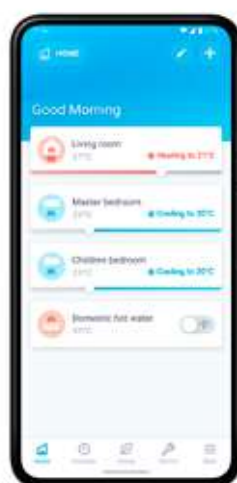
Example of using the voice control via Amazon Alexa



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.



Scan the QR code to download the app now





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Daikin Altherma UFH

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 system: 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.

Areas of application:	System temperatures 35 °C - 45 °C			System temperatures 55 °C - 70 °C		Option
	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.

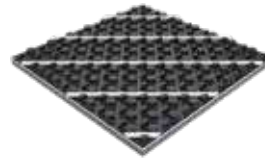
- › Monopex 14 for floor structures with system or tacker panel, wall heating and the Daikin milling system
- › Monopex 16 (for France) for floor installation with system or tacker panels
- › Monopex 17 for floor installation with system or tacker panels
- › Monopex 20 for commercial and industrial surfaces



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



Daikin Altherma HPC heat pump convector

- › Slim design
- › Heating and cooling
- › Integrated electronic room temperature controller with timer
- › Very quiet and compact
- › Also suitable for bedrooms
- › Ideal in buildings with underfloor heating and radiators

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
			Tackerplate roll	ETACKERPLATERAA	ETACKERPLATERA
Pipe accesories	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 accesories	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	ESCREDETEMPREXAA	ESCREDETEMPREXA
			Screed Estrotherm S	ESCREDESTROSAA	ESCREDESTROSA
	Plate accesories	Primer	Surface primer 3,5kg	ESURFPRIMER35AA	ESCREDESTROSA
			Surface primer 15kg	ESURFPRIMER15AA	ESURFPRIMER35A
		In pipe protection fluid	Freeze and corrosion protection	EFREZCOPROTECAA	EFREZCOPROTECA
	Accessories				
	Tacker accesories	Tacker installation	System tacker STAC (tacker gun)	ESYSTACERSTACAA	ESYSTACERSTACA
		Tacker nail	Tacker nail TN40	ETACKERNAIL40AA	ETACKERNAIL40A
			Tacker nail TN60	ETACKERNAIL60AA	ETACKERNAIL60A
	Wall system accesories	Tape	Tape KB50	ETAPEKB50AA	ETAPEKB50A
		Cliprail	Cliprail	ECLIPRAILAA	ECLIPRAILA
		Cliprail accesories	Cliprail nail	ECLIPRAILNAILAA	ECLIPRAILNAILA
			Cliprail plug	ECLIPRAILPLUGAA	ECLIPRAILPLUGA
	Accessory	Pipe accesories	Pipe clips	Pipe clips (Monopex 17/20)	EPIPECLIPMOPXAA
Pipe clips (DUO25)				EPIPECLIPDUOAA	EPIPECLIPDUOA
Manual pipe handling			Pipe fixation for steel frame	EPIPEFIXSTEELAA	EPIPEFIXSTEELA
			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
		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	EFLOSENDRMRMXAA	EFLOSENDRMRMXA
			COUPLING NIPPLE ¾" EUROCONE SKU	ECLUTCHNIPSKUAA	ECLUTCHNIPSKU
			Shut of 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	ECOMBIBOX	
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?

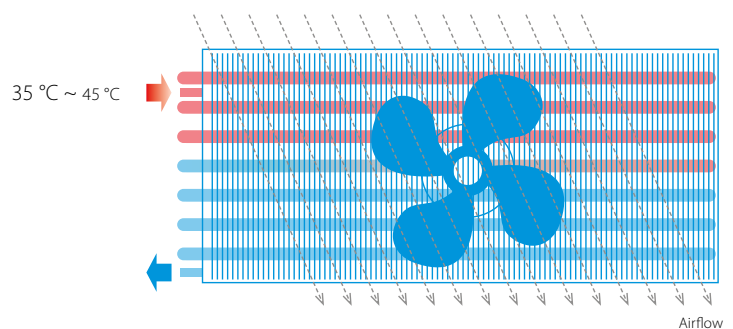
Daikin Altherma HPC provides both cooling and heating. The system is compatible with underfloor piping and radiators in a multi-zoning installation, or can replace radiators in combination with low temperature heat pumps. The unit is suited for use in bedrooms and living rooms thanks to its silent operation.

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.

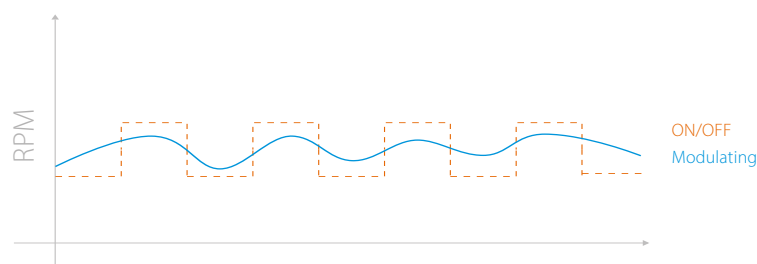
A heat pump convector creates the same room temperature as a traditional radiator, but with lower water temperatures inside the radiator, which in the long run contributes to direct energy savings for end users.

- › 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.

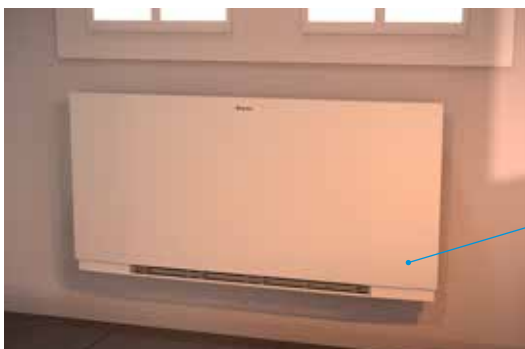
Did you know that the indoor air we breathe, whether at home, at the office, or in a hotel room could in fact be much more polluted than the air outside?

- › 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.

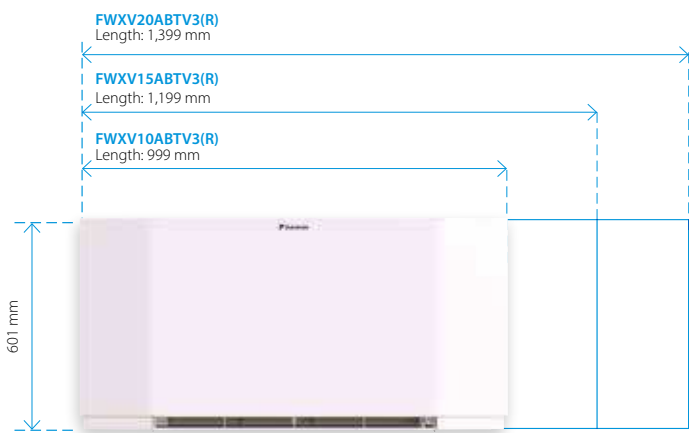




Slim design



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.



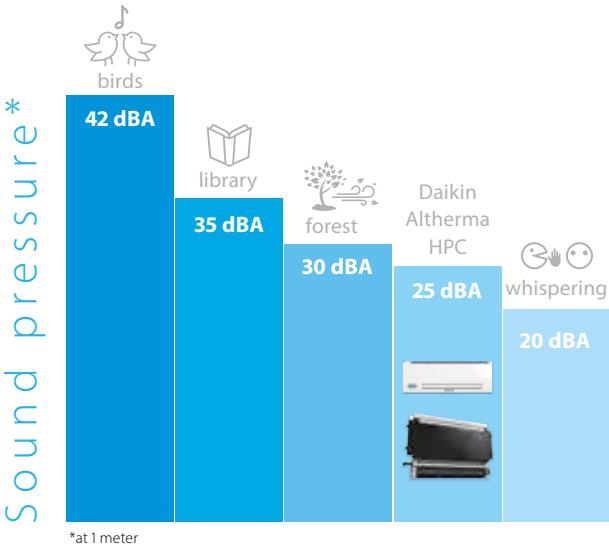
Fast and high capacity

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).



Controls

Daikin offers a wide variety of controllers that are functional and have a great design.

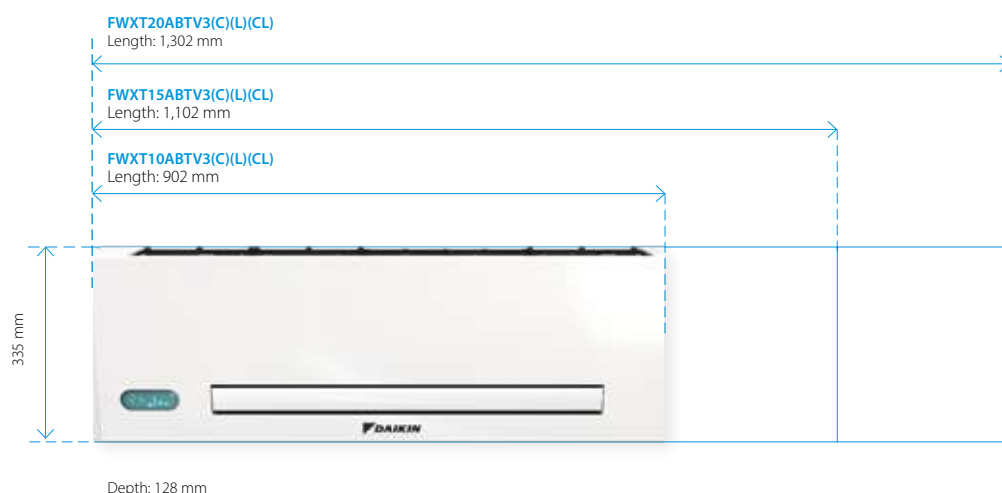
EKRTCTRL1 <ul style="list-style-type: none">> Built-in controller> Fully modulating> Multicolor display	EKRTCTRL2 <ul style="list-style-type: none">> Built-in controller> 4 speed settings
EKWHCTRL1 <ul style="list-style-type: none">> Wall controller> Fully modulating> In combination with EKWHCTRL0	EKPCBO <ul style="list-style-type: none">> Built-in controller> ON/OFF> In combination with external thermostats
EKWHCTRL1A <ul style="list-style-type: none">> 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

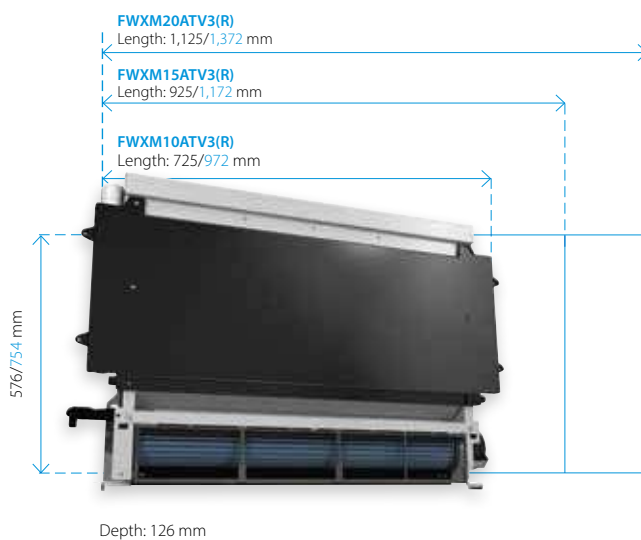
Modulated airflow

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.



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-ABTV3(R)










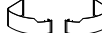


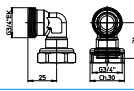








Indoor unit				FWXV10ABTV3(R)		FWXV15ABTV3(R)		FWXV20ABTV3(R)			
Cooling capacity at 7/12 °C	Min.		kW	0.78		1.10		1.13			
	Med.		kW	1.11		1.65		1.98			
	Max.		kW	1.62		2.64		2.99			
Sensible cooling capacity at 7/12 °C	Min.		kW	0.58		0.82		0.85			
	Med.		kW	0.71		1.15		1.55			
	Max.		kW	1.25		1.91		2.33			
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							
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			
Sound power level	Pressure			bar		10					
	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							
	Voltage			V							
Electrical power	Max.			W		19		25		31	
consumption	Standby			W		3		4		5	
Current	Maximum running current			A		0.15		0.21		0.27	

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		
			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		
Sound power level	Pressure		Heating/Max.	bar	10					
	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(R)

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
Sound power level	Pressure	Heating/Max.	bar	10		
	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	Max.		W	19	20	29
consumption	Standby		W	3	4	5
Current	Maximum running current		A	0.16	0.18	0.26

				
FWXV10ABTV3(R)	FWXT10ABTV3(C)(L)(CL)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
FWXV15ABTV3(R)	FWXT15ABTV3(C)(L)(CL)			
FWXV20ABTV3(R)	FWXT20ABTV3(C)(L)(CL)			

Description	Picture	Material name					
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 compatible 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		EKFCDB0	●				
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		●		●	●

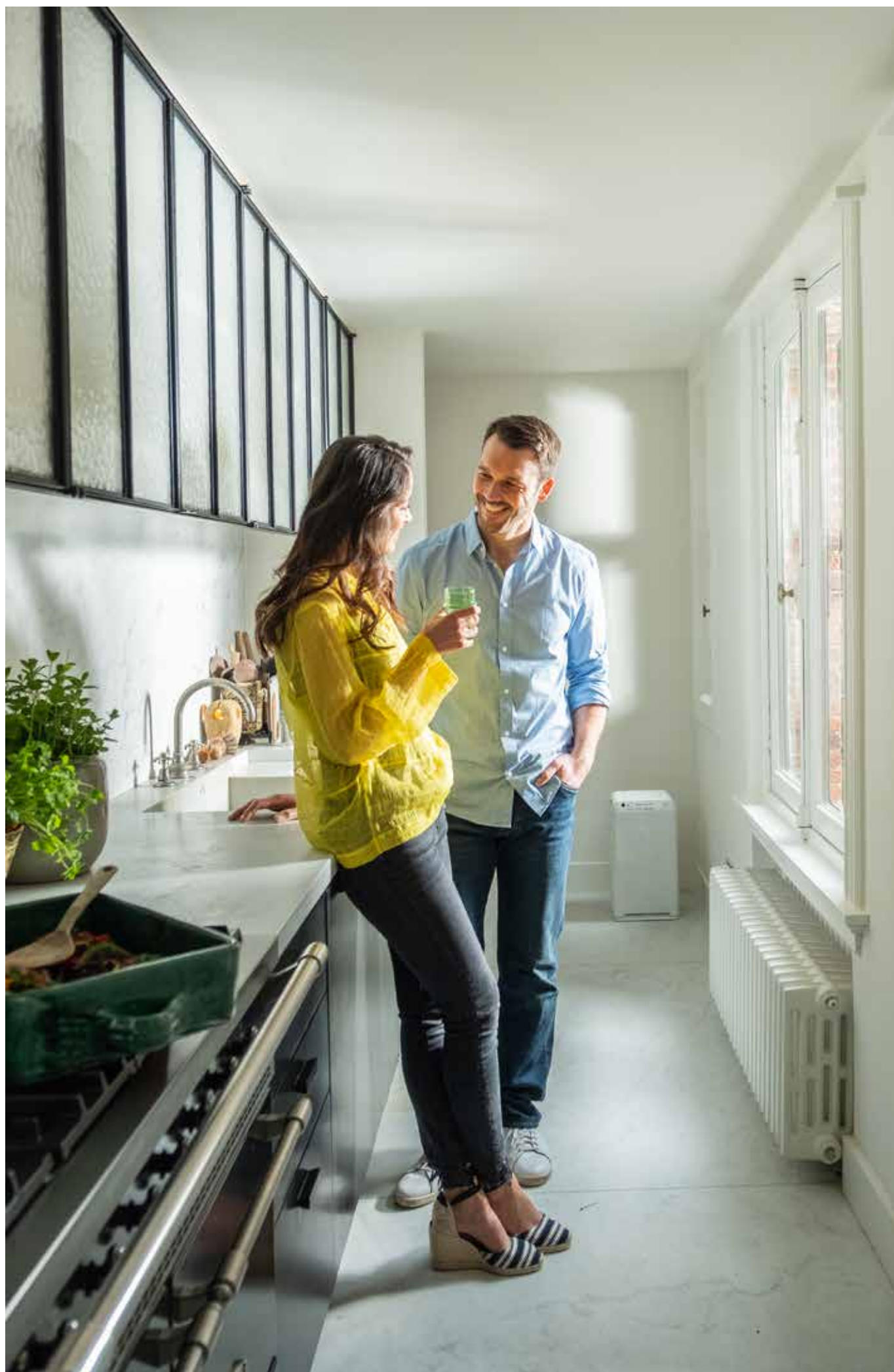


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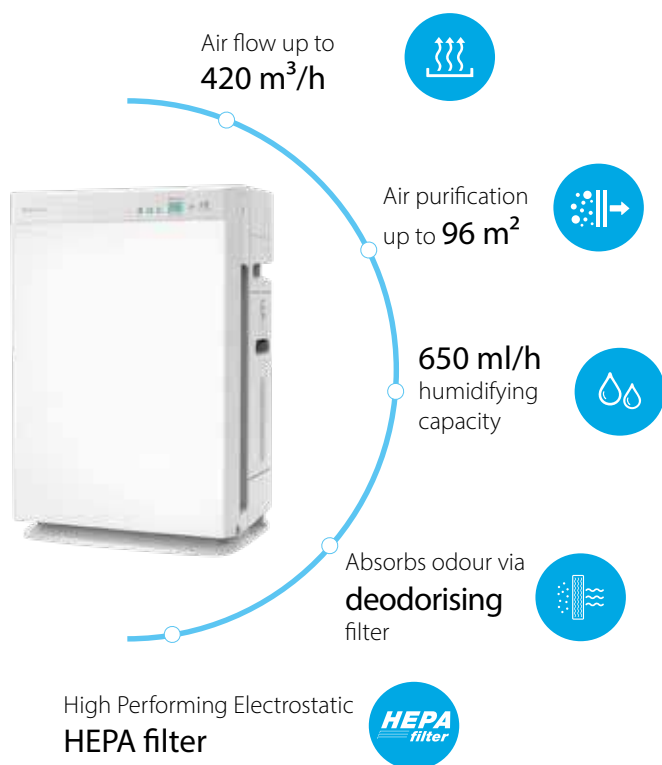
Indoor air quality

Air purifiers.....	218
Residential ventilation.....	228

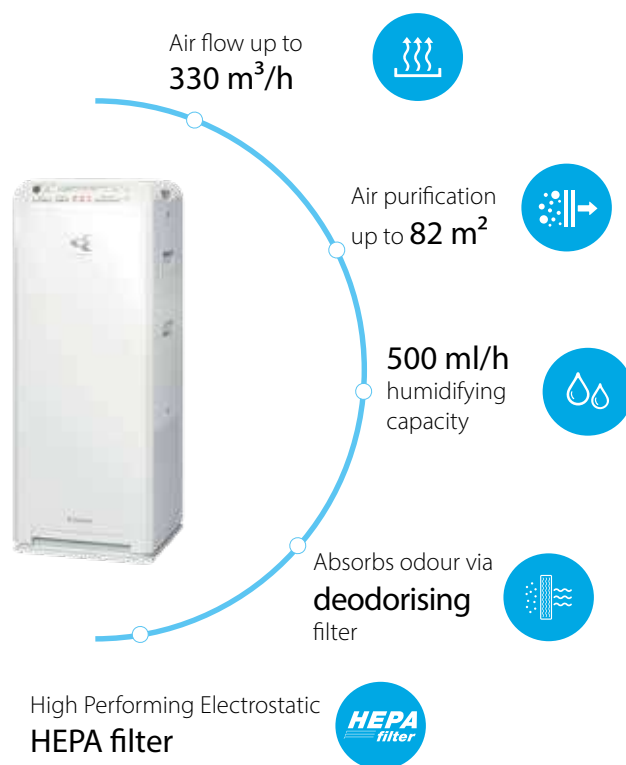
Effective for cleaning the air and removing:

AIR PURIFIERS WITH HUMIDIFYING CAPABILITY

MCK70Y



MCK55W



No maintenance
costs for at least
10 years



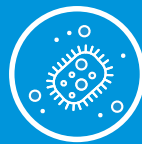
One of the
most silent
air purifier range on the European market



Allergens



Dust particles



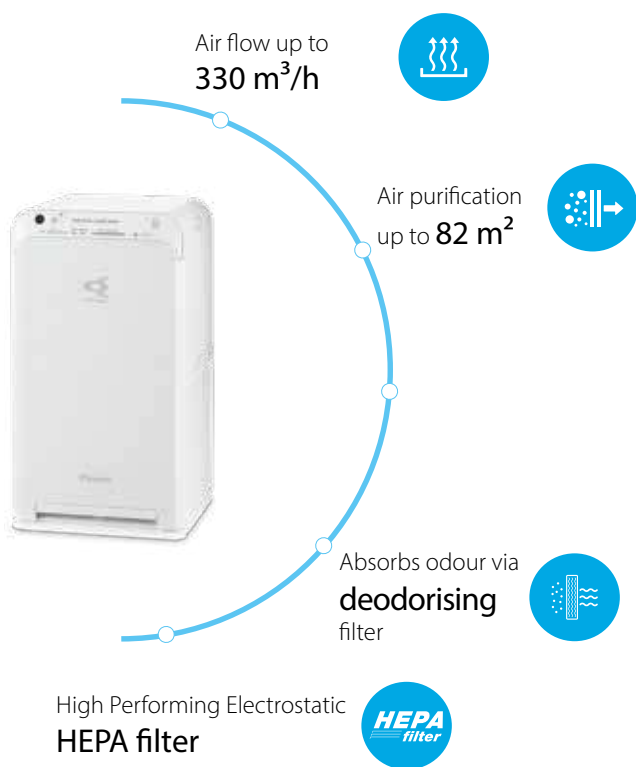
Viruses



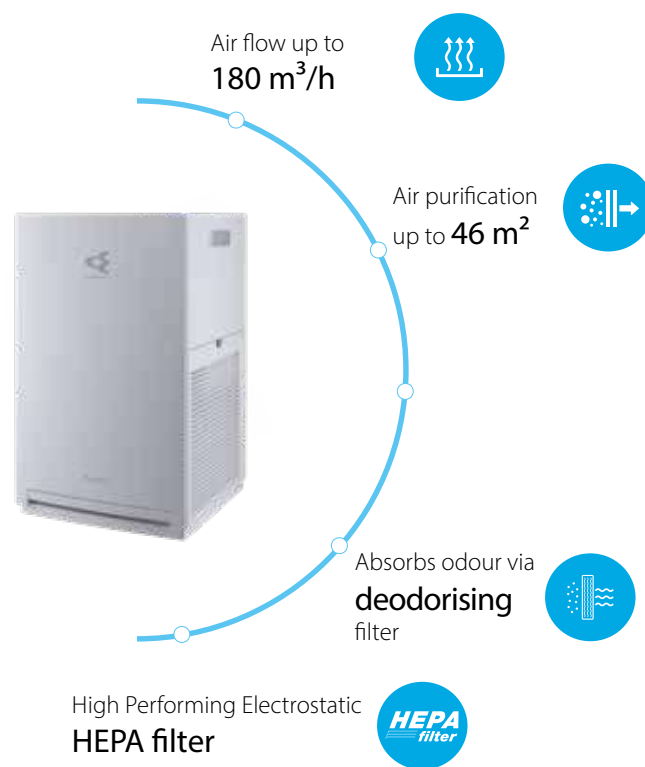
Odours

AIR PURIFIERS

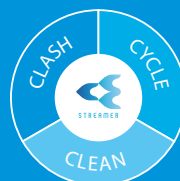
MC55W



MC30Y

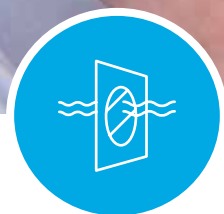


Compact
& performing



Pure air thanks to Daikin 'Catch and Clean' approach in decomposing harmful substances

Air purifier



Top indoor air quality through unique filtration

Internal pollution has less obvious consequences on people and manifests the effects in the long run, this causes a lower level of attention.

90% of our time is spent indoors.
The indoor air is 2 to 5 times more
polluted than outdoor air.

The **different type of filters** remove odours, allergens and dust.

		Odours 🌫️	Allergens 🦠	Dust 🌫️
Flash streamer	Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air	•	•	
Titanium apatite deodorising filter	Decomposes bothersome odours of for example tobacco and pets	•		
Silver allergen removal and air purifying filter	Captures allergens such as pollen to ensure a steady supply of clean air		•	
Dust filter	Removes airborne dust particles to ensure a steady supply of clean air			•
Self-cleaning filter	The air filter removes airborne dust particles from the air while the integrated brush regularly and automatically cleans the filter to ensure a steady supply of clean air			•

To increase your personal comfort and indoor air quality to a next level,
our air conditioners can work together with our air purifiers.

If you only require heating or cooling, an air conditioner is sufficient. If you want perfect indoor air quality including heating and/or cooling, it is advised to combine your air conditioning system with an air purifier.

Comfort

- › Heating
- › Cooling
- › Domestic hot water



Pure air

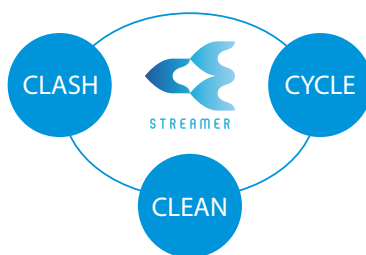
- › Air purification by removing up to 99,7% of odours, allergens, dust, bacteria and viruses
- › Humidification



Air purifier filtering principle

CLASH

The dust collection filter catches the floating substances with the attached harmful gases and Streamer decomposes the gases by oxidation.



CLEAN

Removes bacteria from dust collection filter and humidifying filter.

CYCLE

The deodorising filter adsorbs and decomposes odour. Thanks to the regeneration of the adsorbing capacity, the deodorising capacity is maintained. No need to change the deodorising filter, unlike air purifiers with activated carbon filters.



*Daikin device MCK55WM (commercial name MCK55W), tested by Institut Pasteur de Lille, removes 99.996 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m³, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. Daikin device MCS55WM (commercial names MCS55W/VB), tested by Institut Pasteur de Lille, removes 99.98 % of Human Coronavirus HCoV-229E in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 1.4 m³, no air renewal). Human Coronavirus HCoV-229E is different from the virus responsible for COVID-19, SARS-CoV-2, but belongs to the same family of coronaviruses. Daikin device MCK55WM (commercial name MCK55W), tested by Institut Pasteur de Lille, removes 99.986 % of Influenza A virus subtype H1N1 in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m³, no air renewal). Daikin device MCS55WM (commercial names MCS55W/VB), tested by Institut Pasteur de Lille, removes 99.93 % of Influenza A virus subtype H1N1 in 2.5 minutes running time at 'turbo' speed in laboratory conditions (air-tight chamber with inner volume 0.47 m³, no air renewal).

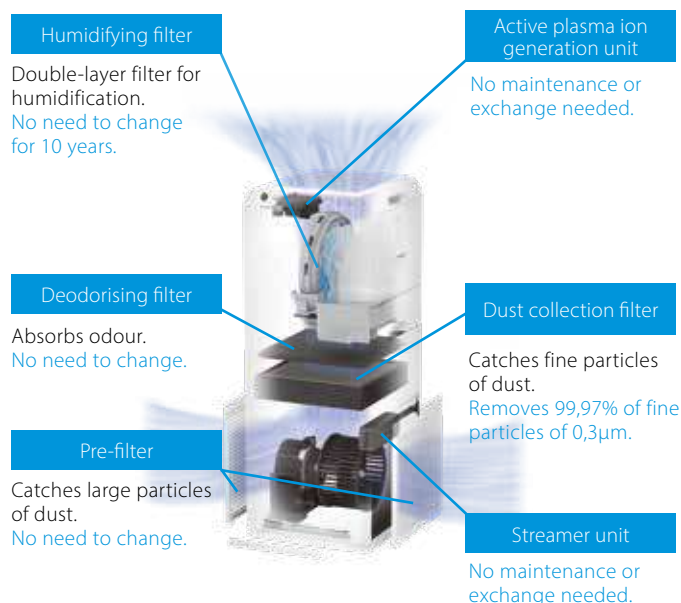
Humidification & air purification in one



MCK55W

- Effectiveness against respiratory viruses evaluated by Institut Pasteur de Lille
- Humidification and purification in one
- Pure air thanks to Daikin 'Catch and Clean' approach in decomposing harmful substances
- High performance HEPA filter with no need to change for 10 years
- Whisper quiet

Optimal room air distribution thanks to unique vertical structure



It may become necessary to change out items that usually do not require replacing due to environmental and operational conditions.

MCK55W

HUMIDIFICATION

DUST COLLECTION

DEODORISATION

Capacity in turbo operation mode

AIR PURIFICATION

HUMIDIFYING CAPACITY

Humidification
+ Air purification

Airflow
5.5 m³/min. **330** m³/hour

Applicable room area

~82 m²*

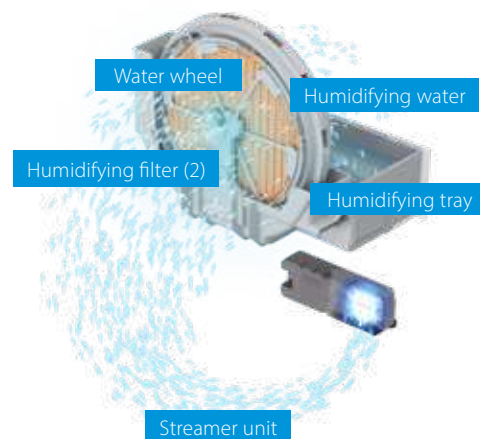
500 ml/h

* Area calculated according to NRCC-54013-2011 standard using CADR value by test method based on Japan Electric Manufacturers' Association Standard JEM 1467.

Powerful humidification to protect against Air Dryness and viruses

BENEFITS

- Protects the skin, the throat and the nostrils from dryness.
- Protects against viruses by maintaining appropriate humidity of the room.
- Indicates humidity of the room.
- Eliminates bacteria on the humidifying filter.
- Reduces bacteria in humidifying water by Streamer.



Triple Detection sensor to quickly detect air pollution

Equipped with a high sensitivity dust sensor that distinguishes small particles such as PM_{2.5} and larger particles of dust and reacts accordingly. Triple detection of dust, PM_{2.5} and odour is provided.



Functions

Humidification	x
Temperature and humidity sensors	x
Dust (PM _{2.5} /dust) and odour sensor lamps	x
Streamer discharge	x
Active plasma ion	x
Electrostatic HEPA filter	x
Streamer regenerated deodorizing filter	x
Moist mode	x
Econo mode	x
Auto fan mode	x
Anti-pollen mode	x
Turbo mode	x
Child proof lock	x
Brightness adjustment	x
Auto-restart after power failure	x
Stabilizer free	x



Specifications

More details and final information can be found by scanning or clicking the QR codes.



MCK55W

Single Unit					MCK55W	
Application				Floor standing type		
Applicable room area				m ²	41 (1) / 82 (2)	
Dimensions	Unit	HeightxWidthxDepth		mm	700 x 270 x270	
Weight	Unit			kg	9.5	
Casing	Colour				White	
Fan	Type				Multi Blade Fan (Sirocco fan)	
	Air flow rate	Air purifying operation	Silent/Low/Medium/Turbo	m ³ /h	54/120/192/330	
		Humidifying operation	Silent/Low/Medium/Turbo	m ³ /h	102/144/192/330	
Sound pressure level	Air purifying operation	Silent/Low/Medium/Turbo		dBA	19.0/29.0/39.0/53.0	
	Humidifying operation	Silent/Low/Medium/Turbo		dBA	25.0/33.0/39.0/53.0	
Humidifying operation	Power input	Silent/L/M/Turbo		kW	0.011/0.014/0.019/0.058	
	Humidification	Silent/Low/Medium/Turbo		ml/h	200/240/300/500	
	Water tank capacity			l	2.7	
Air purifying operation	Power input	Silent/L/M/Turbo		kW	0.007/0.010/0.017/0.056	
Deodorizing method				Flash streamer + Deodorizing catalyst		
Dust collecting method				Electrostatic HEPA filter		
Air filter	Type				Polyethylene terephthalate net	
Sign	Item	01			Dust: 3 stages/Odour: 3 stages/Anti-pollen mode/Water supply lamp/Child proof lock lamp/ON/OFF lamp/Streamer lamp/Econo mode/MOIST mode/AUTO FAN mode/ PM2.5 sensor lamp: 3 stages/Humidity monitor lamp: 5 stages/ Humidity setting: Low/Standard/High/ Airflow rate: Quiet/Low/Standard/Turbo/Humidity on/off	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	
Type					Humidifying air purifier	

The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. (1) in accordance with JEM (2) in accordance with CADR (JEM) & NRCC-54013-2011 standard | Humidification amount changes in accordance with indoor and outdoor temperature and humidity. Measurement condition: 20°C in temperature, 30% in humidity. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter and humidifying filters are attached in the unit.

Model debut in
a compact and stylish
design



MC55W/VB*

- Effectiveness against respiratory viruses evaluated by Institut Pasteur de Lille
- Pure air thanks to Daikin 'Catch and Clean' approach in decomposing harmful substances
- High performance HEPA filter with no need to change for 10 years
- Whisper quiet

MC55W/VB*

DUST COLLECTION

DEODORISATION

Capacity in turbo operation mode

AIR PURIFICATION

Air purification only

Airflow **5.5** m³/min. **330** m³/hour

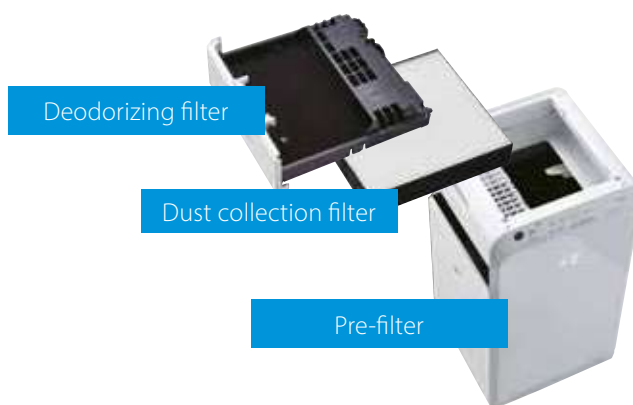
Applicable room area

~82 m^{2**}

* UK plug

** Area calculated according to NRCC-54013-2011 standard using CADR value by test method based on Japan Electric Manufacturers' Association Standard JEM 1467.

Compact, effective and quiet
thanks to the new, innovative structure



Triple Detection sensor to quickly detect air pollution

Equipped with a high sensitivity dust sensor that distinguishes small particles such as PM_{2.5} and larger particles of dust and reacts accordingly. Triple detection of dust, PM_{2.5} and odour is provided.

Functions

Dust (PM _{2.5} /dust) and odour sensor lamps	x
Streamer discharge	x
Active plasma ion	x
Electrostatic HEPA filter	x
Streamer regenerated deodorizing filter	x
Econo mode	x
Auto fan mode	x
Anti-pollen mode	x
Turbo mode	x
Child proof lock	x
Brightness adjustment	x
Auto restart after power failure	x
Stabilizer free	x



Specifications

More details and final information
can be found by scanning or
clicking the QR codes.



MC55W



MC55VB

Single Unit					MC55W / MC55VB	
Application					Floor standing type	
Applicable room area					41 (1) / 82 (2)	
Dimensions	Unit	Height x Width x Depth			500 x 270 x 270	
Weight	Unit				6.8	
Casing	Colour				White	
Fan	Type				Multi Blade Fan (Sirocco fan)	
	Air flow rate	Air purifying operation	Silent/Low/Medium/Turbo	m ³ /h	66/120/192/330	
Sound pressure level	Air purifying operation		Silent/Low/Medium/Turbo	dB(A)	19/29/39/53	
Air purifying operation	Power input		Silent/Low/Medium/Turbo	kW	0.008/0.010/0.015/0.037	
Deodorizing method					Flash streamer + Deodorizing catalyst	
Dust collecting method					Electrostatic HEPA filter	
Air filter	Type				Polyethylene terephthalate net	
Sign	Item	01				Dust Sign: 3 stages / Odour: 3 stages / Anti-pollen mode / Child proof lock lamp / PM2.5 sensor lamp: 6 stages / Airflow rate: Quiet/Low/Standard/Turbo / AUTO FAN mode / Econo mode / ON/OFF lamp / Streamer lamp
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220-230	
Power plug					W: C type/VB: G type (UK)	
Type					Air Purifier	

The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. ((1) in accordance with JEM (2) in accordance with CADR (JEM) & NRCC-54013-2011 standard) | Operating sound levels are the average of values measured at 1 m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function: Active plasmatron function. Auto-restart function.

About the dust collection and deodorizing capacity of an air purifier:

- Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
- Not all odour components that emanate continuously (from building materials and pets, etc.) can be removed.

The Daikin air purifier is not a medical device and is not meant to be used as a substitute to any medical or pharmaceutical treatment.

Streamer technology air purifier

Powerful air purification



MC30YV/YB

- Air treatment up to 46m²
- Pure air thanks to 'Catch and Clean' approach
- No need to change filter for 10 years thanks to high performance electrostatic HEPA filter
- Whisper quiet operation (19 dB(A))

About the dust collection and deodorizing capacity of an air purifier.

- Not all harmful substances in cigarette smoke (carbon monoxide, etc.) can be removed.
- Not all odour components that emanate continuously (from building materials and pets, etc.) can be removed.

The Daikin air purifier is not a medical device and is not meant to be used as a substitute to any medical or pharmaceutical treatment.

HEPA filtration effect claims:

- Removes 99% of particles between 0.1µm and 2.5µm in size: test method: Japan Electrical Manufacturers' Association Standard JEM1467. Criterion: Remove 99% of fine particulate matters of 0.1 to 2.5µm in a closed space of 32m³ within 90 minutes. (Converted to a value in a test space of 32m³.)

Deodorization/gas removal effect claims:

- Reduction of gases by oxidation: testing organization: Life Science Research Laboratory. Test method: After operating a gasoline engine for 10 minutes (when particulate concentration reached 60mg/m³), operated the air purifier for 80 minutes to adsorb polluting particles emitted from the engine. Operated this air purifier for 24 hours in a closed space of 200L and measured the effect to decompose gases. Test result: Compared with a test without Streamer irradiation, gas components were reduced by 63% in 9 hours. Test number: LSRL-83023-702. Test unit: Tested with MCK70N (Japanese model).
- Adsorption and decomposition of odours: placed the air purifier and an odour component, acetaldehyde, in a box of 21 m³ and operated the air purifier. Examined increase of concentration of product (CO₂) generated by decomposition of acetaldehyde by Streamer (evaluation by Daikin). Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series.
- Formaldehyde decomposition: test method: constant generation method. Test room: 22 to 24 m³, temperature: 23 ± 3°C, humidity: 50 ± 20%. Ventilation condition: When concentration of 0.2 ppm is continually emanated, a removal capacity of 0.08 ppm is maintained at 36 m³/h, which is within the guideline of the Ministry of Health, Labour and Welfare in Japan. (This equates to the ventilation capacity of an approximately 65 m³ room.)

Substance decomposition effect claims:

- Removal of bacteria from dust collection filter: testing organization: Japan Food Research Laboratories. Test number: J5044988001-0201. Test method: Attached a test piece inoculated with bacteria liquid on the upstream side of a dust collection filter installed in an air purifier, and operated it in a test area of 25 m³. Counted the number of live bacteria after five hours. Test result: Reduced by more than 99% in five hours. Test unit: Tested with MCK55S (Japanese model), a model equivalent to MCK55W series (turbo operation).
- Allergen decomposition and removal: various allergens were irradiated by streamer discharge and the breakdown of protein in the allergens was verified using the ELISA method, cataphoresis, or an electron microscope (Joint research with Wakayama Medical University). Test example: Japanese cedar pollen Crj-1. Test result: 99.6% or more decomposed and removed in 2 hours (ELISA method); 96.9% decomposed and removed in 4 hours (other measurement method). Note: test performed on the flash streamer module.
- Virus removal ref. 1: testing organization: Kitasato Research Center for Environmental Science. Test result certificate 21_0026 (issued by same organization). Result of experiment: 99.9% removal of A-H1N1 virus after 1 hour. Note: test performed on the flash streamer module.
- Virus removal ref. 2: testing organization: Vietnamese Institute of Hygiene and Epidemiology. Result of experiment: over 99.9% removal of A-H5N1 virus in 3 hours. Note: test performed on the flash streamer module.
- Virus removal ref. 3: testing organization: Graduate School of Kobe University. Result of experiment: over 96% removal of Norovirus in 24 hours. Note: test performed on the flash streamer module.

DUST COLLECTION

DEODORISATION

Capacity in turbo operation mode

AIR PURIFICATION

Air purification

Airflow

3.0 m³/min.

180 m³/hour

Applicable room area

~46 m²

*Area calculated according to NRCC-54013-2011 standard using CADR value by test method based on Japan Electric Manufacturers' Association Standard JEM 1467.

Eliminates pollutants and allergens



mold
spores



dust



fine
particles



ultrafine
particles



hair



pollen



bacteria



odours



virus



volatile organic
compounds
(VOC)



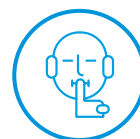
No maintenance
costs for at least
10 years

No need to change the filters in the first 10 years after unit purchase, avoiding additional costs for regular filter changes.



Compact
& performing

Small size and perfect for surfaces up to 46m².



One of the
most silent
air purifier range on
the European market

Our air purifiers are whisper quiet during **quiet operation** (sound pressure level: 19 dBA), providing you pure air without noticing.

Specifications

Technical specifications				MC	MC30YV/YB
Application					Floor Standing Type
Applicable room area					23 (1) / 46 (2)
CADR				m ³ /h	180
Weight				kg	5.8
Dimensions				mm	565/350/345
Casing				Colour	White
Fan				Type	Multi Blade Fan (Sirocco fan)
				Air flow rate	60
				Air purifying operation	120
				Silent Medium	180
				Turbo	
Sound pressure level				Silent	19
				Medium	27
				Turbo	37
Air purifying operation				Power input	0.008
				Medium	0.015
				Turbo	0.025
Deodorizing method					Flash streamer + Deodorizing catalyst
Dust collecting method					Electrostatic HEPA filter
Air filter				Type	Polyethylene terephthalate net
Sign				Item	Child proof lock lamp/ ON/OFF lamp
				01	Streamer lamp/ Sleep mode
Power supply				Phase	1~
				Frequency	50/60
				Voltage	220-240/220-30
Type					Air Purifier

Standard accessories: Electrostatic HEPA filter; Quantity : 1 | Standard accessories: Deodorising filter; Quantity : 1 | Standard accessories: Operation manual; Quantity : 1

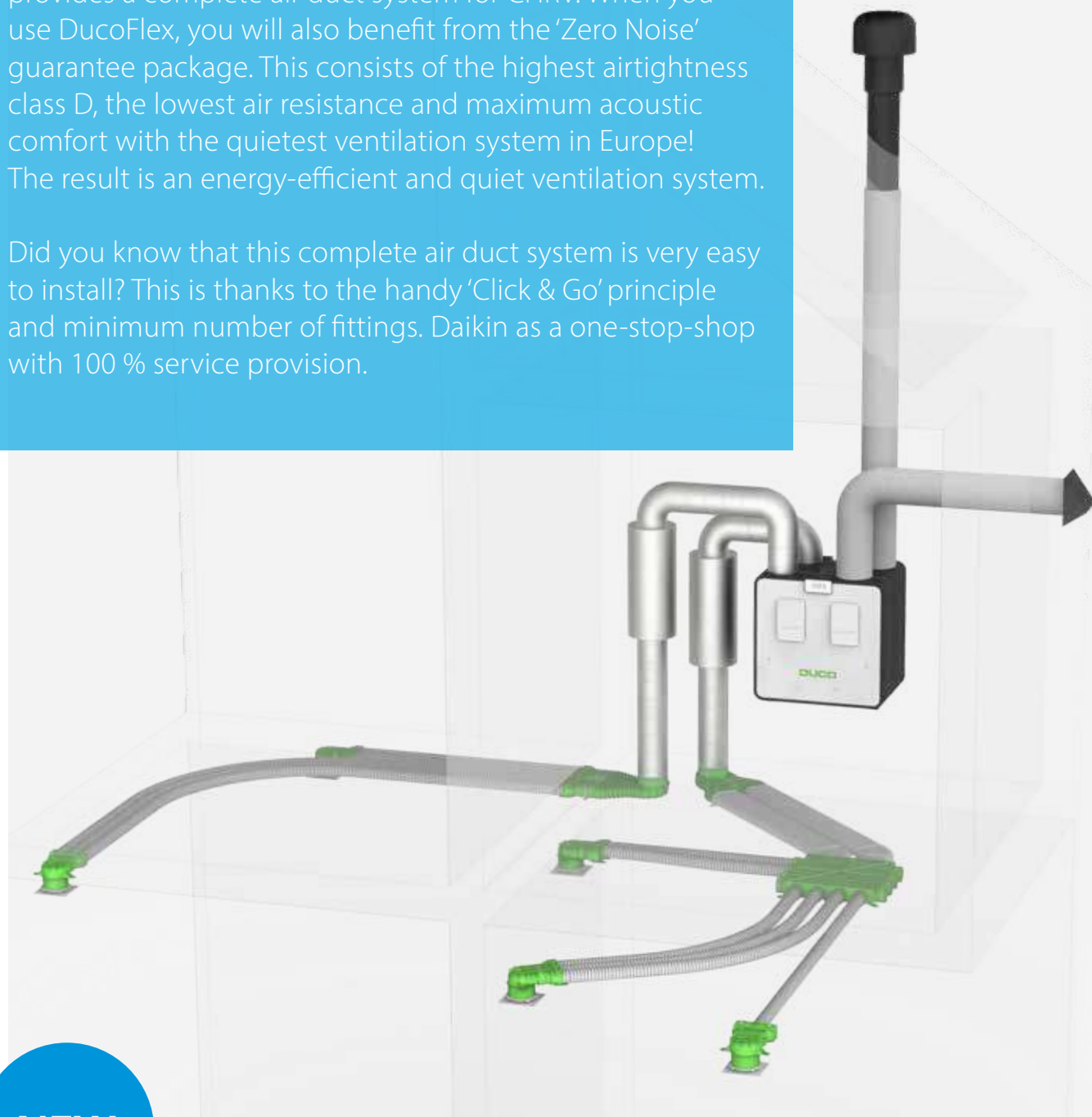
Note

(1) The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area indicates the space where a certain amount of dust particles can be removed in 30 minutes. (JEM 1467) | (2) The applicable room area is appropriate for operating the unit of maximum fan speed (HH). Applicable room area was calculated in accordance with NRCC-54013 standard using cigarette smoke CADR that was tested according to JEM1467. | Converted to CADR standards from test values in accordance with JEM1467. | Operating sound levels are the average of values measured at 1m away from the front, left, right and top of the unit. (These are equal to the values in an anechoic chamber) | Electrostatic HEPA filter is attached in the unit. | Other function : Auto-restart function.

Total ventilation package

Are you looking for a total ventilation package? Then you are best going to just one address. With DucoFlex, Daikin provides a complete air duct system for CHRV. When you use DucoFlex, you will also benefit from the 'Zero Noise' guarantee package. This consists of the highest airtightness class D, the lowest air resistance and maximum acoustic comfort with the quietest ventilation system in Europe! The result is an energy-efficient and quiet ventilation system.

Did you know that this complete air duct system is very easy to install? This is thanks to the handy 'Click & Go' principle and minimum number of fittings. Daikin as a one-stop-shop with 100 % service provision.



NEW

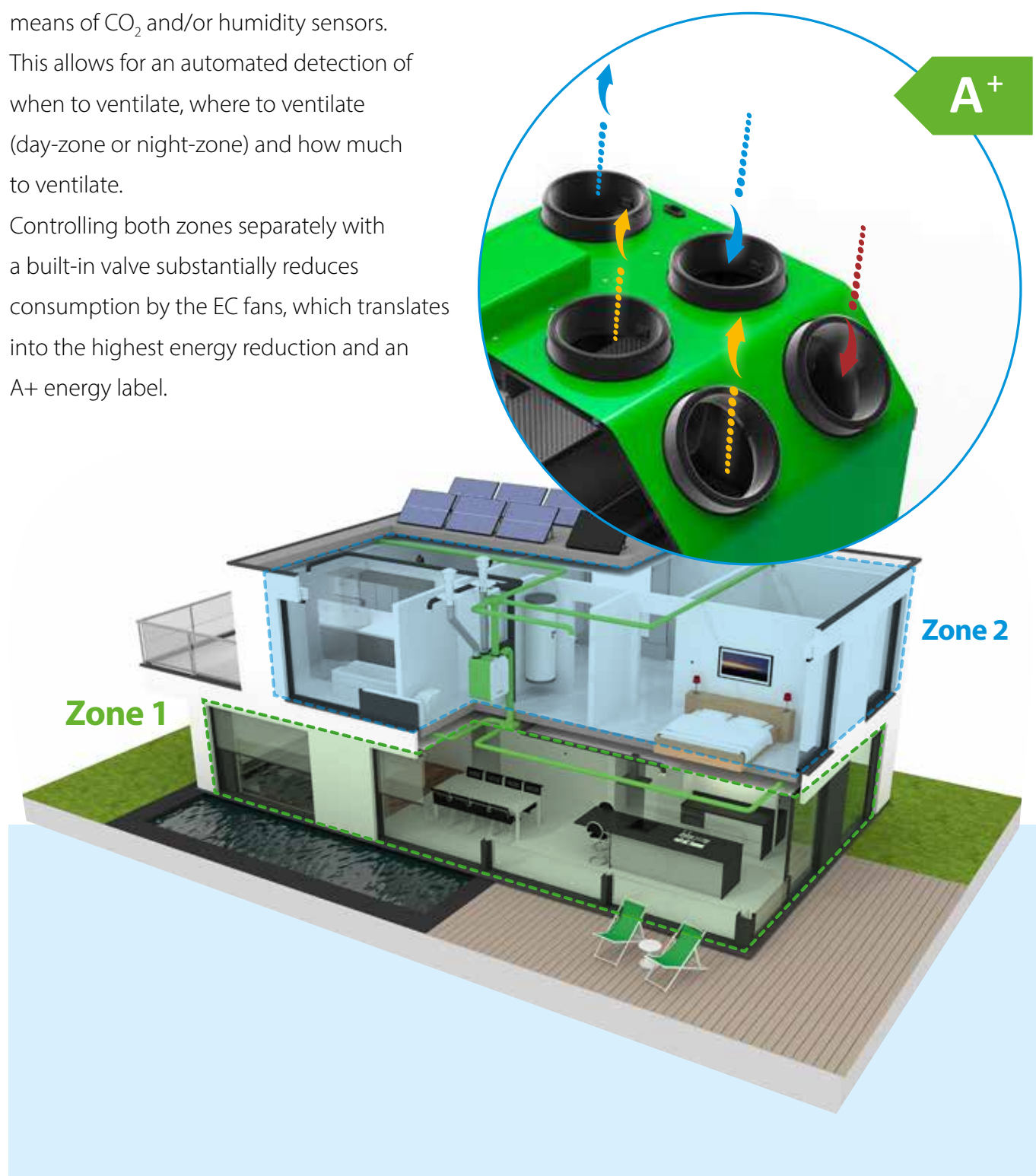


- ✓ **DucoFlex**
Complete air ducting system for CHRV
- ✓ **'Click & Go' system**
Flexible ducting with convenient click system
- ✓ **'Zero noise' guarantee**
Meets the most stringent requirements
- ✓ **100% service**
Complete ventilation package with support

2-zone ventilation system

Sensors closely monitor the occupant's presence and activity in the dwelling by means of CO₂ and/or humidity sensors. This allows for an automated detection of when to ventilate, where to ventilate (day-zone or night-zone) and how much to ventilate.

Controlling both zones separately with a built-in valve substantially reduces consumption by the EC fans, which translates into the highest energy reduction and an A+ energy label.



DucoBox Energy Comfort



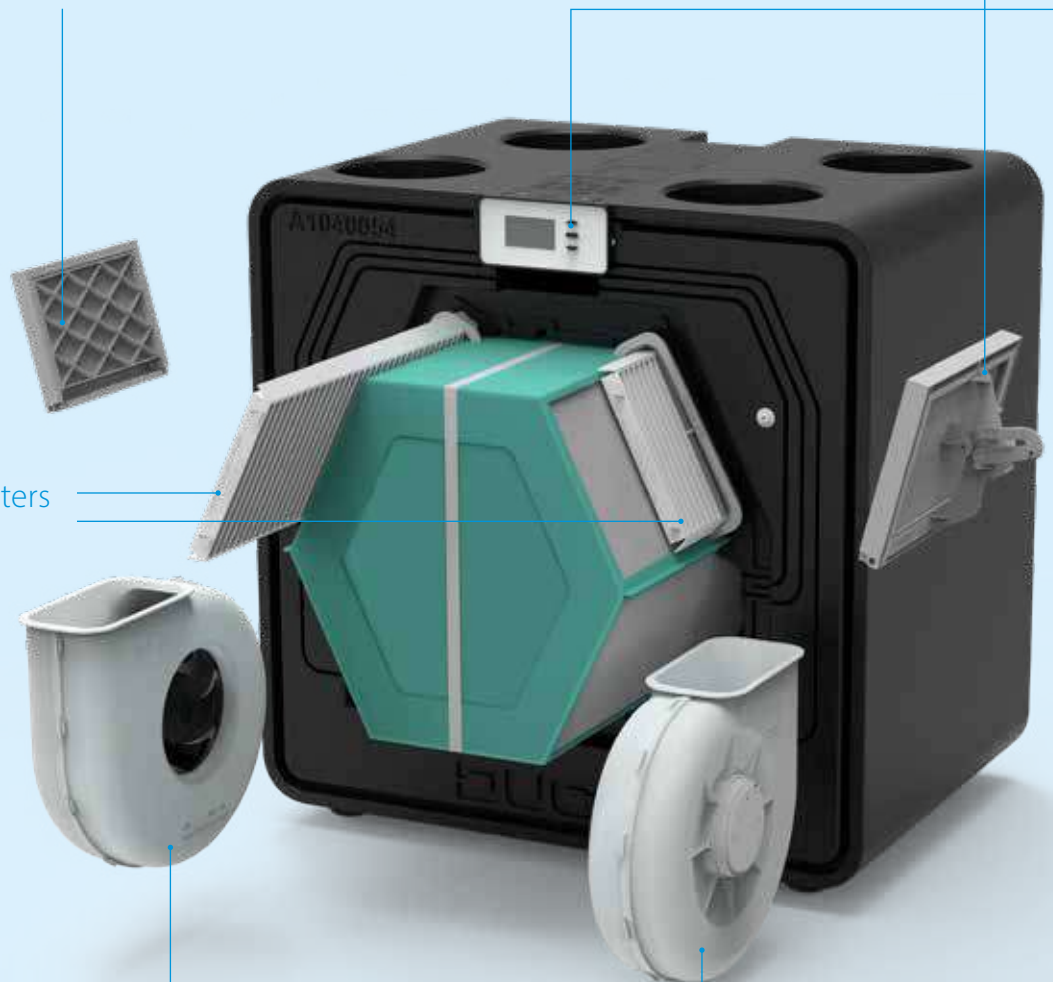
Making life easy for installers

- ✓ Patented principle of double by-pass

- ✓ Dynamic Airflow Filters

For maximum efficiency.

- ✓ Low power consumption due to energy-efficient EC motors



First choice for building projects

The DucoBox Energy Comfort is a Mechanical Ventilation unit with Heat Recovery (MVHR). This smart and silent ventilation unit, with its adjustable capacity of up to 325 m³/h, is the ideal solution for apartments and houses due to its compact size. The left/right switch is 100% software-driven thanks to the patented principle of double bypass. The dynamic air distribution filters, together with the smart demand control based on CO₂ and humidity, ensure for exceptional efficiency within this compact unit.

✓ L/R switch - 100% software-based

This unit is very user-friendly because physical interventions are not necessary. The left/right switch is carried out 100% by software thanks to a patented principle of double by-pass.

✓ Compact & light unit: 700 x 705 x 525 mm



This lightweight unit of 21 kg can easily be installed by 1 person. With its compact dimensions, the DucoBox Energy Comfort is ideal for a small technical space!

✓ Smart copy function

Thanks to a "copy" function which is integrated on software level, the installer has the possibility to copy the settings and parametrisation of one DucoBox Energy Comfort onto the next DucoBox Energy Comfort. This is particularly useful in a serial construction with the same types of houses.

✓ Automatic calibration

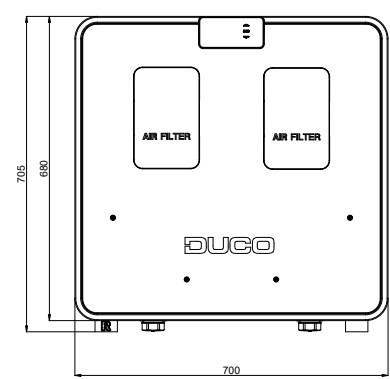
Relying on the principles of calibration at constant pressure, this method achieves a 50% saving on calibration time. DUCO saves you time.

✓ Smart demand control based on CO₂ and/or humidity measurement

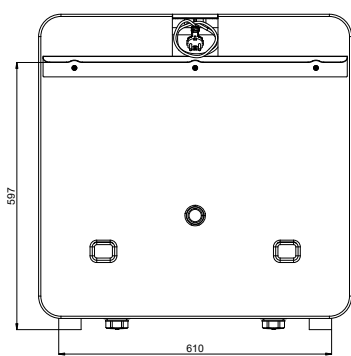


Technical specifications

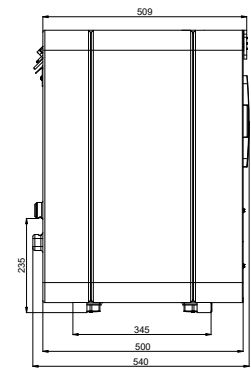
Front view



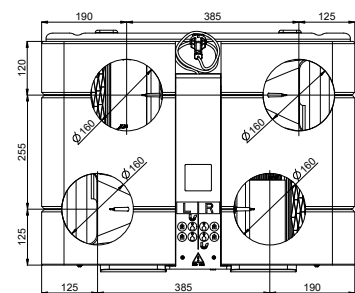
Rear view



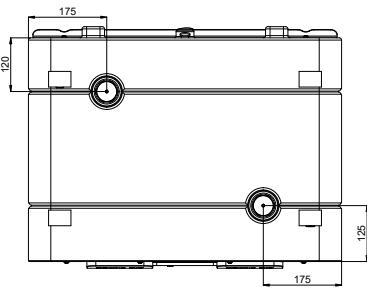
Side view



Top view



Bottom view



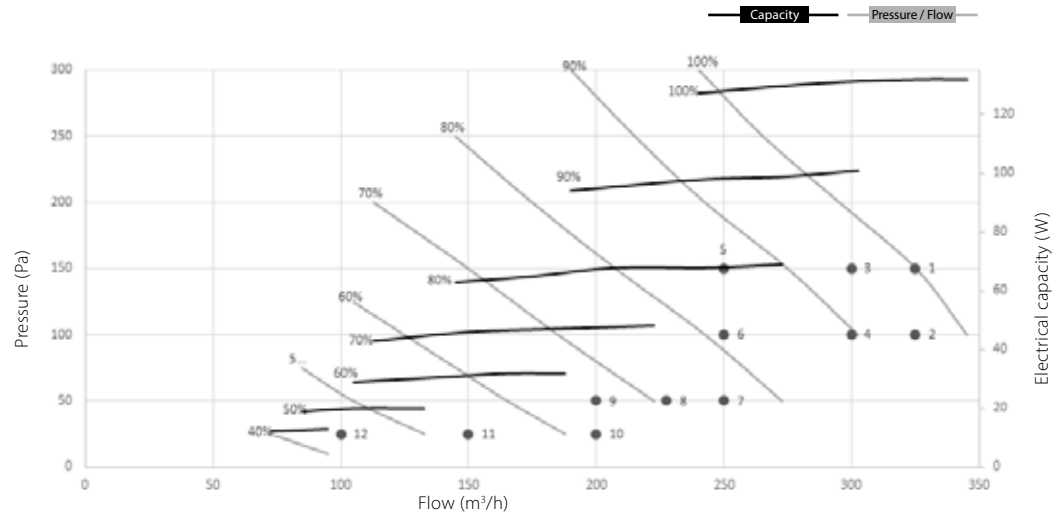
Versions

Type	Supply and exhaust airflow rate at 150 Pa	2-zone control	Frost protection	Reference number
DucoBox Energy Comfort 325	325 m³/h	No	Imbalance	00004485

For UK models, see page 238

Optional accessories

Product	Reference number
Siphon flat (Energy & Eco)	00004376
Communication Print	00004251
Humidity Box Sensor (Energy Comfort)	00004545
Mounting chair standing (Energy Comfort)	00004546
Filter set 2 x Coarse 65% (Energy Comfort)	00004547



DucoBox

Energy Comfort 325

Physical properties	
Width x Height x Depth (mm)	700 x 705 x 525 mm
Casing	Coated sheet steel + EPP
Colours	White + black
Connections	Interior diameter: Ø 160 mm
Condensate drain	Ø 32 mm (1 ¼") (2x)
Heat exchanger	PET / Polystyrene
Interior material	EPP / PP / ABS
Weight	21 kg
Power plug cable length	2 m (from top of device)
Mounting	Wall mounting (standard) - Optional floor mounting with mounting chair

Miscellaneous properties	
Energy class	With 2 sensors: A+. Others: A
Filters	Supply air: Standard: ISO 16890 Coarse 65 % (= G4) Exhaust air: Standard: ISO 16890 Coarse 65 % (= G4)
Summer bypass	Full (100% modulating)
Frost protection	Imbalance
Fans	EC fan with curved blades
Automatic configuration	Yes (constant pressure)
Constant flow control	Yes
Controls	Integrated display Use via control switches and room sensors Optionally via smartphone / tablet (if Communication Print in device)
Sensors	Integrated: pressure, temperature, onboard switch contact , Humidity (via optional Boxsensor) External: CO ₂ (via optional room sensor), humidity (via optional room sensor), external switch contact (voltage-free input) (optional)
Communication	Standard: DUCO RF, DUCO Wired, Switch contact Can be expanded with Communication Print: ModBus, PWM-IN, PWM-OUT, Switch contact (3x), Ethernet, Micro SD-card slot

Electrical characteristics	
Maximum electrical capacity 325 m³/h at 150 Pa	130 W (2 x 65 W)
Power supply	230 V, 50 Hz - via 3-core cable with earth plug
Plugs	0-10 V in/outputs
Motor type	DC
IP class	IP40
Efficiency	At 325 m³/h: 85 % - At 275 m³/h: 87 % - At 225 m³/h: 88 %

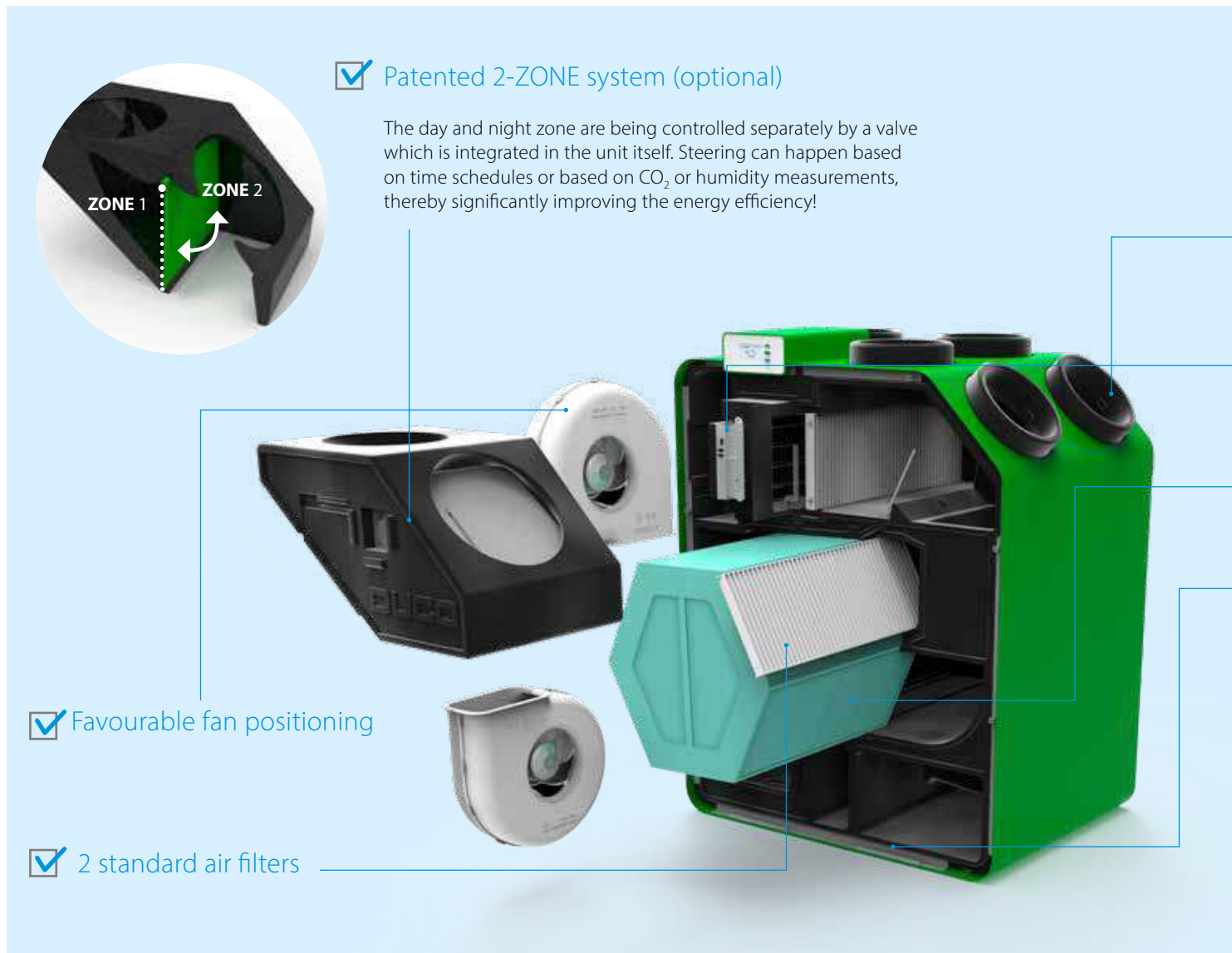
Measurement #	Flow Qv m³/h	Pressure Pa	Rated input P W	SFP Wh/m³	Sound level Lw*		
					Supply dB(A)	Exhaust dB(A)	Sound power level dB(A)
1	325	150	131	0,40	69	58,5	63
2	325	100	115	0,35	69	59	62
3	300	150	113	0,38	67,5	57,5	62
4	300	100	96	0,32	66,5	56	61
5	250	150	82	0,33	65	55	60
6	250	100	71	0,28	63,5	54,5	58,5
7	250	50	59	0,24	62,5	53	56
8	227,5	50	49	0,22	60	49	55
9	200	50	40	0,20	58,5	50	53
10	200	25	35	0,18	57,5	48,5	51,5
11	150	25	23	0,15	52	41,5	47
12	100	25	15	0,15	47,5	39,5	42

* Sound power level measured in accordance with ISO 3741: 2010. Supply and exhaust sound level according to ISO 5135: 1997 (with channel correction)

DucoBox Energy Premium

in the spotlight

The **DucoBox Energy Premium** raises CHRV with heat recovery to the next level. Ideal for installation in an energy-neutral home of the future, automatic calibration and integrated 2-zone control with demand control ensure ultra-quiet, intelligent and energy-saving operation.



✓ Patented 2-ZONE system (optional)

The day and night zone are being controlled separately by a valve which is integrated in the unit itself. Steering can happen based on time schedules or based on CO₂ or humidity measurements, thereby significantly improving the energy efficiency!

✓ Favourable fan positioning

✓ 2 standard air filters

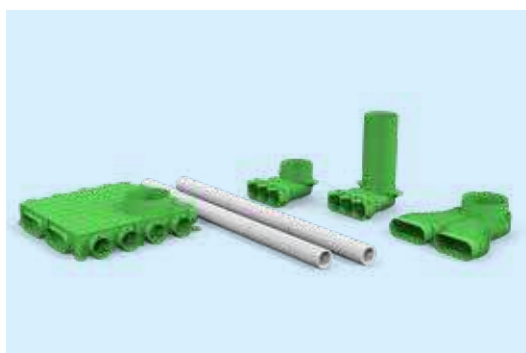
✓ Distinguishing features

- › **Demand-controlled** balanced system with **heat recovery**
- › **Lowest** sound power (air supply) in the market
- › Patented **2-zone control** guarantees maximum energy efficiency (60.5 W)
- › Automatic calibration reduces installation time by **at least 50%**
- › **Modular** set-up of on-demand **components**
- › Minimum number of components
- › **Smart communication** with domotic systems through ModBus or ethernet



- ✓ Smart humidity measurement & pressure sensors
- ✓ Intelligent preheater
- ✓ Heat exchanger for maximum efficiency
- ✓ One of the quietest CHRV solution
- ✓ Automatic calibration

The automatic calibration, which is based on the principle of constant pressure, allows for a very fast and accurate calibration. This easily reduces set-up time to 50%! DUCO saves you time and money.

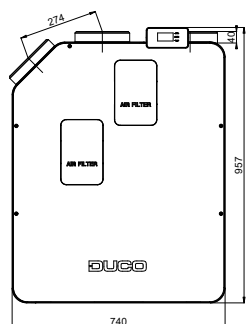


- ✓ **DucoFlex**
Complete air ducting system for CHRV
- ✓ **'Click & Go' system**
Flexible ducting with convenient click system
- ✓ **'Zero noise' guarantee**
Meets the most stringent requirements
- ✓ **100% service**
Complete ventilation package with support

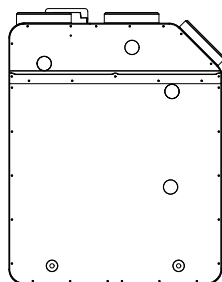


Technical specifications

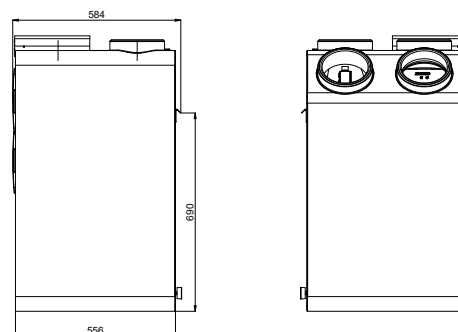
Front view



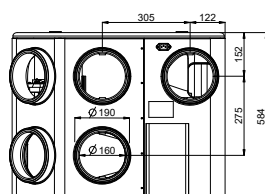
Rear view



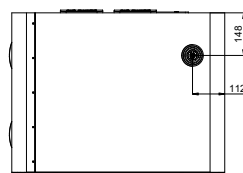
Side view



Top view



Bottom view



Versions

A⁺

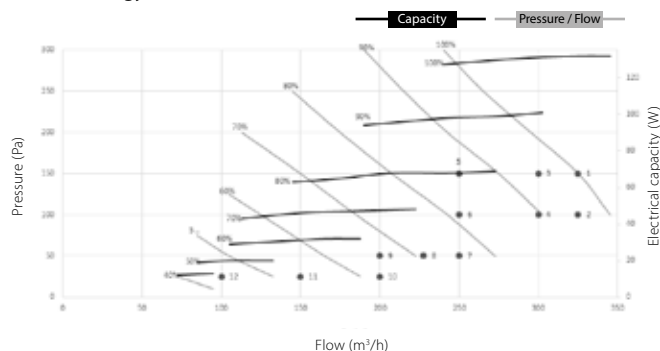
Type	Supply and exhaust capacity at 150 Pa in m ³ /h	2-zone system	Frost protection	Reference number	
				LEFT	RIGHT
DucoBox Energy Premium 325-1ZS	325	No	Imbalance	00004358	00004359
DucoBox Energy Premium 325-1ZH			Imbalance + heater	00004360	00004361
DucoBox Energy Premium 325-2ZS		Yes	Imbalance	00004362	00004363
DucoBox Energy Premium 325-2ZH			Imbalance + heater	00004364	00004365
DucoBox Energy Premium 400-1ZS	400	No	Imbalance	00004366	00004367
DucoBox Energy Premium 400-1ZH			Imbalance + heater	00004368	00004369
DucoBox Energy Premium 400-2ZS		Yes	Imbalance	00004370	00004371
DucoBox Energy Premium 400-2ZH			Imbalance + heater	00004372	00004373

For UK models, see page 238

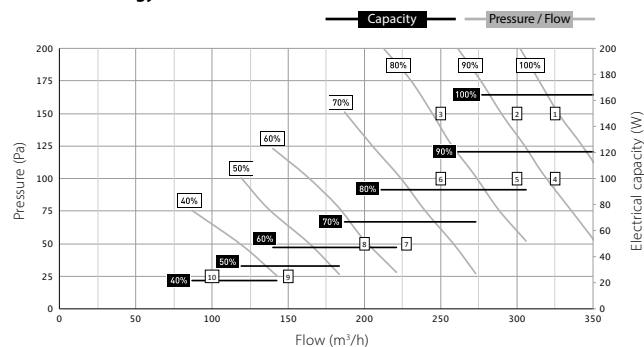
Optional accessories

Product	Reference number
Mounting chair standing (Energy Premium)	00004421
Mounting chair hanging (Energy Premium)	00004422
Siphon flat (Energy & Eco)	00004376
Communication Print	00004251
Humidity Box Sensor (Energy Premium)	00004374

DucoBox Energy Premium 325



DucoBox Energy Premium 400



DucoBox

Energy Premium 325 - 400

Physical properties	325	400
Width x Height x Depth (mm)	740 x 957 x 585 mm	
Casing	Coated sheet steel	
Colours	White + green	
Connections	Interior diameter: Ø 160 mm - Exterior diameter: Ø 190 mm	
Condensate drain	Ø 32 mm (1 ¼")	
Heat exchanger	PET / Polystyrene	
Interior material	EPP / PP / ABS	
Weight	47 kg	
Power plug cable length	2 m (connected at the top side of the unit)	
Mounting	Wall mounting (standard) - Optional floor mounting with mounting chair	
Miscellaneous properties	325	400
Energy class	With 2 sensors: A+. Others: A	
Filters	Supply air: Standard: ISO 16890 Coarse 65 % (≈ G4) Supply air: Optional: ISO 16890 ePM1 70% (≈ F7) Exhaust air: Standard: ISO 16890 Coarse 65 % (≈ G4)	
Summer bypass	Full (100% modulating)	
Frost protection	Imbalance - Optional via proportional Heater	
Fans	EC fan with curved blades	
Automatic configuration	Yes (constant pressure)	
Constant flow control	Yes	
Controls	Integrated display Use via control switches and room sensors Optionally via smartphone / tablet (if Communication Print in device)	
Sensors	Integrated: pressure, temperature, humidity (via optional box sensor), onboard switch contact External: CO ₂ (via optional room sensor), humidity (via optional room sensor), external switch contact (voltage-free input) (optional)	
Communication	Standard: DUCO RF, DUCO Wired, Switch contact Can be expanded with Communication Print: ModBus, PWM-IN, PWM-OUT, Switch contact (3x), Ethernet, Micro SD-card slot	

Electrical characteristics	325	400
Maximum electrical capacity at 150 Pa	120 W (2 x 60 W)	183 W (2 x 91,5 W)
Maximum electrical capacity heater	1000 W	
Power supply	230 V, 50 Hz - via 3-core cable with earth plug	
Plugs	0-10 V in/outputs	
Motor type	DC	
IP class	IP40	
Efficiency	At 228 m³/h: 87 % - At 275 m³/h: 86 % - At 332 m³/h: 85 %	At 301 m³/h: 85 % - At 351 m³/h: 85 % - At 401 m³/h: 84 %

Measurement #	Flow Qv m³/h		Pressure Pa		Rated input P W		SFP Wh/m³		Sound level Lw*					
									Supply dB(A)		Exhaust dB(A)		Sound power level dB(A)	
	325	400	325	400	325	400	325	400	325	400	325	400	325	400
1	325	400	150	150	118	180	0,36	0,45	52,0	52,5	54,5	57,0	51,0	55,0
2	300	350	150	150	100	135	0,33	0,39	51,0	51,0	55,0	56,0	50,0	53,5
3	250	300	150	150	80	100	0,32	0,33	46,5	51,0	48,5	55,0	48,0	50,0
4	325	400	100	100	104	159	0,32	0,40	51,0	52,0	56,5	56,5	50,5	54,5
5	300	350	100	100	93	120	0,31	0,34	48,0	51,5	52,5	55,5	50,5	51,5
6	250	300	100	100	67	93	0,27	0,31	45,0	48,0	46,5	52,5	46,0	50,5
7	227,5	280	50	50	47	68	0,21	0,24	41,0	46,0	45,5	47,0	41,5	46,0
8	200	250	50	50	37	55	0,19	0,22	39,0	44,0	44,5	46,0	40,0	43,0
9	150	200	25	50	26	37	0,17	0,19	31,0	39,0	36,0	44,5	39,5	40,0
10	100	200	25	25	16	35	0,16	0,18	28,5	36,0	35,5	40,5	39,0	40,0
11	-	150	-	25	-	26	-	0,17	-	31,0	-	36,0	-	39,5
12	-	100	-	25	-	16	-	0,16	-	28,5	-	35,5	-	39,0

* Sound power level measured in accordance with ISO 3741: 2010. Supply and exhaust sound level according to ISO 5135: 1997 (with channel correction)

Material list

Category	Reference	Description
CHRV UNITS (NON-UK)	00004485	DucoBox Energy Comfort 325
	00004358	DucoBox Energy Premium 325 - 1ZS - Left
	00004359	DucoBox Energy Premium 325 - 1ZS - Right
	00004360	DucoBox Energy Premium 325 - 1ZH - Left
	00004361	DucoBox Energy Premium 325 - 1ZH - Right
	00004362	DucoBox Energy Premium 325 - 2ZS - Left
	00004363	DucoBox Energy Premium 325 - 2ZS - Right
	00004364	DucoBox Energy Premium 325 - 2ZH - Left
	00004365	DucoBox Energy Premium 325 - 2ZH - Right
	00004366	DucoBox Energy Premium 400 - 1ZS - Left
	00004367	DucoBox Energy Premium 400 - 1ZS - Right
	00004368	DucoBox Energy Premium 400 - 1ZH - Left
	00004369	DucoBox Energy Premium 400 - 1ZH - Right
	00004370	DucoBox Energy Premium 400 - 2ZS - Left
	00004371	DucoBox Energy Premium 400 - 2ZS - Right
	00004372	DucoBox Energy Premium 400 - 2ZH - Left
	00004373	DucoBox Energy Premium 400 - 2ZH - Right
CHRV UNITS (UK)	00004591	DucoBox Energy Comfort 325 (UK)
	00004456	DucoBox Energy Premium 325 - 1ZS - Left (UK)
	00004457	DucoBox Energy Premium 325 - 1ZH - Left (UK)
	00004458	DucoBox Energy Premium 325 - 2ZS - Left (UK)
	00004459	DucoBox Energy Premium 325 - 2ZH - Left (UK)
	00004460	DucoBox Energy Premium 325 - 1ZS - Right (UK)
	00004461	DucoBox Energy Premium 325 - 1ZH - Right (UK)
	00004462	DucoBox Energy Premium 325 - 2ZS - Right (UK)
	00004463	DucoBox Energy Premium 325 - 2ZH - Right (UK)
	00004464	DucoBox Energy Premium 400 - 1ZS - Left (UK)
	00004465	DucoBox Energy Premium 400 - 1ZH - Left (UK)
	00004466	DucoBox Energy Premium 400 - 2ZS - Left (UK)
	00004467	DucoBox Energy Premium 400 - 2ZH - Left (UK)
	00004468	DucoBox Energy Premium 400 - 1ZS - Right (UK)
	00004469	DucoBox Energy Premium 400 - 1ZH - Right (UK)
	00004470	DucoBox Energy Premium 400 - 2ZS - Right (UK)
	00004471	DucoBox Energy Premium 400 - 2ZH - Right (UK)
ACCESSORIES	00004546	Mounting chair standing (Energy Comfort)
	00004421	Mounting chair standing (Energy Premium)
	00004422	Mounting chair hanging (Energy Premium)
	00004251	Communication Print (Energy Comfort + Premium)
	00004376	Flat siphon
	00004547	Filterset 2 x Coarse 65 % (Energy Comfort)
	00004416	Filterset 1x Coarse 65 % & 1 x ePM1 70% (Energy Premium)
	00004417	Filterset 2 x Coarse 65 % (Energy Premium)
CONTROLLERS	00004175	User controller RF/BAT black
	00004174	Switching contact RF/230V
	00004545	Humidity Box Sensor (Energy Comfort)
	00004374	Humidity Box Sensor (Energy Premium)
	00004600	User controller RF/BAT white
	00004601	User controller RF/Wired black
	00004602	User controller RF/Wired white
	00004603	CO ₂ sensor RF/Wired black
	00004604	CO ₂ sensor RF/Wired white
	00004605	Humidity sensor RF/Wired black
	00004606	Humidity sensor RF/Wired white
	00004636	CO ₂ sensor without command RF/Wired black
	00004637	CO ₂ sensor without command RF/Wired white

Category	Reference	Description
AIR VENT	00004179	DucoVent Design square standard AK (exhaust) - RAL 9010
	00004594	DucoVent Design square standard AK (exhaust) - other RAL
	00004226	DucoVent Design square XL AK (supply and exhaust) - RAL 9010
	00004597	DucoVent Design square XL AK (supply and exhaust) - other RAL
	00004211	DucoVent Design rounded square standard AK (exhaust) - RAL 9010
	00004596	DucoVent Design rounded square standard AK (exhaust) - other RAL
	00004227	DucoVent Design rounded square XL AK (supply and exhaust) - RAL 9010
	00004598	DucoVent Design rounded square XL AK (supply and exhaust) - other RAL
	00004210	DucoVent Design round AK (supply and exhaust) - RAL 9010
	00004595	DucoVent Design round AK (supply and exhaust) - other RAL
	00004178	DucoVent Basic (supply and exhaust)
	10300800	DoorVent RAL 9001
	10300700	DoorVent RAL 9010
	10300500	DoorVent (other RAL)
DUCOFLEX	00004552	DucoFlex Round air duct D63
	00004563	DucoFlex Floor plenum 12x63 - D180
	00004565	DucoFlex Floor plenum 12x63 - 2 oval
	00004564	DucoFlex Ceiling plenum 12x63 - D180
	00004560	DucoFlex Valve connector right angled 3x63 - D125
	00004561	DucoFlex Valve connector right angled short 3x63 - D125
	00004608	DucoFlex connector riser round 3x63 - D125
	00004566	DucoFlex connector riser round D160 - 2 oval
	00004553	DucoFlex O-ring D63 (10 units)
	00004554	DucoFlex Coupling D63
	00004599	DucoFlex Tube cutter
	00004569	DucoFlex Star air duct & coupling D160
	00004570	DucoFlex Star air duct & coupling D180
	00004571	DucoFlex Star bend 90° & coupling D160
	00004572	DucoFlex Star bend 90° & coupling D180
	00004573	DucoFlex Star bend 45° & coupling D160
	00004574	DucoFlex Star bend 45° & coupling D180
	00004575	DucoFlex Star coupling D160
	00004576	DucoFlex Star coupling D180
	00004584	DucoFlex Wall terminal black D160
	00004627	DucoFlex Wall terminal white D160
	00004585	DucoFlex Wall terminal black D180
	00004628	DucoFlex Wall terminal white D180
	00004580	DucoFlex Roof terminal Compact D160 - Terracotta
	00004582	DucoFlex Roof terminal Compact D160 - Slate
	00004578	DucoFlex Roof terminal D160/180
	00004581	DucoFlex Roof terminal for flat roofs D160/180
	00004579	DucoFlex Roof terminal tile D160/180
	00004586	DucoFlex Silencer D127
	00004630	DucoFlex Silencer D125
	00004631	DucoFlex Silencer D160
	00004632	DucoFlex Silencer D180
	00004587	DucoFlex Silencer Semi Rigid D160
	00004588	DucoFlex Silencer Semi Rigid D180



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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.

ECH₂O

✓ 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

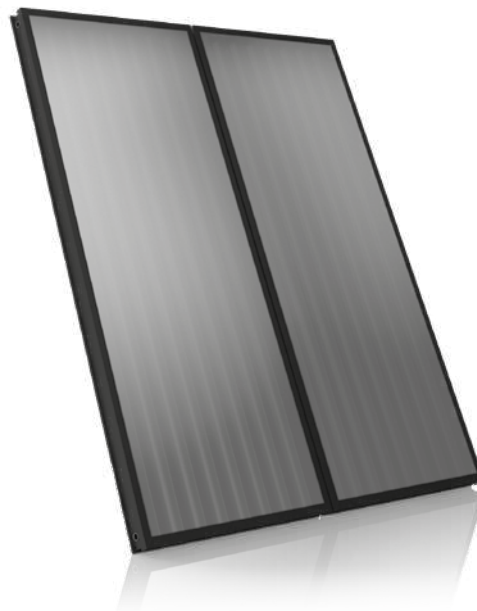
ECH₂O thermal store range:
Hot water savings with solar energy

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



011-7S1016 F



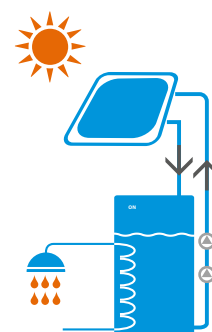
The Drain-Back solar system

✓ 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 a 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

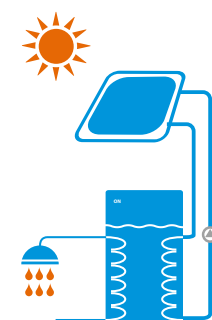
✓ Advantages

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



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	4 ²⁾	0	6 ²⁾	0	8 ²⁾	0	10 ²⁾	0
In-roof installation package, basic storage for two solar panel	IB EKSV21P	16 20 17	0	1	0	1	0	1	0	1
In-roof installation package, additional storage for central solar panel	IE EKSV21P	16 20 18	0	0	0	1	0	2	0	3

Material list standard solar panels
with Drain-back system

Type of installation	Type	Order No.	On-roof Quantity	In-roof Quantity
Control and pump unit	RPS 4	EKSRPS4A	1	1
Support for connecting pipe solar panel	TS	16 42 45	1	1
Connection pipe solar panel	CON 15	16 47 32	1	1
Roof penetration pack solar panel on-roof	EKSRCAP 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



Drain-back system



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).

Material list for standard solar panel systems for hot water preparation and heating support EKS26P

Solar panel
EKS26P

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	EKS26P	EKS26P	2	2	2	3	3	3	4	4	4	5	5	5
Solar panel connection	FIX-VBP	16 20 16 - RTX	1	1	1	2	2	2	3	3	3	4	4	4
Mounting rail single collector	FIX MP 130	16 20 67	2	2	2	3	3	3	4	4	4	5	5	5
On-roof installation pack for one solar panel ^(DB+P) (2 roof hooks per kit)	FIX-ADDP	16 20 85	4 ²⁾	0	0	6 ²⁾	0	0	8 ²⁾	0	0	10 ²⁾	0	0
In-roof installation kit, basic flashing for two solar panels	IB V26P	16 20 19	0	1	0	0	1	0	0	1	0	0	1	0
In-roof installation pack, additional flashing for central solar panel	IE V26P	16 20 20	0	0	0	0	1	0	0	2	0	0	3	0
Flat-roof frame, basic pack for two solar panels	FB V26P	16 20 58	0	0	1	0	0	1	0	0	1	0	0	1
Flat-roof frame, expansion pack additional solar panel	FE V26P	16 20 59	0	0	0	0	0	1	0	0	2	0	0	3

Material list standard solar panels with Drain-back system



Number of solar panels Installation type / Article	Type	Order No.	On-roof Quantity	In-roof Quantity	Flat roof Quantity
Control and pump unit	EKS26P4A	EKS26P4A	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	EKS26CAP EKS26CRP	EKS26CAP Anthracite EKS26CAP 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	Nominal volume, complete system				
Controller	EKS26SR1A	EKS26SR1A	1	1	1	Number of solar panels	2	3	4	5
Pressure station solar panel	EKS26RDS2A	EKS26RDS2A	1	1	1	Connecting line 15 m	DN 16	DN 16	DN 20	DN 20
Solar panel pressurised solar line DN16 15 m	CON 15P16	16 20 73	1	1	0	Nominal volume entire system (L)	21	22.7	24.4	26.1
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	EKS26RCP	1	1	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	2 ²⁾	0	4 ²⁾	0	6 ²⁾	0	8 ²⁾	0	10 ²⁾	0
Flat roof support frame basic kit for one solar panel	FB H26P	16 20 60	0	1	0	1	0	1	0	1	0	1
Flat roof trestle Extension pack for one additional solar panel	FE H26P	16 20 61	0	0	0	1	0	2	0	3	0	4



Nominal volume, complete system

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

Material list solar panels with pressurised system ¹⁾



Pressurised system

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

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.

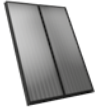
2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

List of materials for solar components that connect several storage tanks



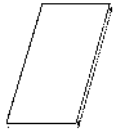
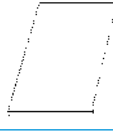


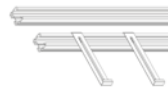



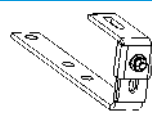
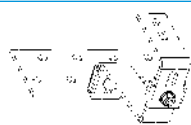
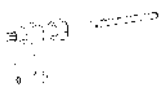
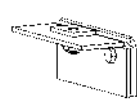
Total number of storage tanks Article	Type	Order No.	2 Quantity	3 Quantity
Solar panel storage tank extension kit	CON SX	16 01 20	1	1
Solar panel storage tank extension kit 2	CON SXE	16 01 21	0	1

Solar panels for pressurised use and Drain-back system



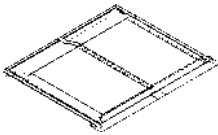
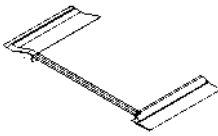
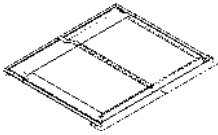
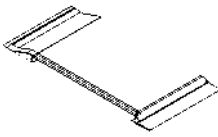
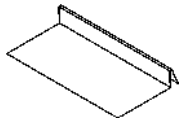




High-efficiency flat solar panels

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 EKS21P	 (2,000 x 1,006 x 85 mm), solar panel area 1.79 m ² , Weight 35kg, water content 1.3 l. Max. 6 bar.	EKS21P	EKS21P
High-efficiency flat solar panel EKS26P	 (2,000 x 1,300 x 85 mm), solar panel area 2.35 m ² , Weight 42kg, water content 1.7 l. Max. 6 bar.	EKS26P	EKS26P
High-efficiency flat solar panel EKSH26P	 (1,300 x 2,000 x 85 mm), solar panel area 2.35 m ² , 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 EKS21P	 Consisting of installation profile rails and solar panel securing clips.	FIX MP 100	16 20 66
Installation profile rail for EKS26P	 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 EKS21P		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 EKS21P		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 EKS26P		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 EKS26P		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 EKS26P 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 EKS26P 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




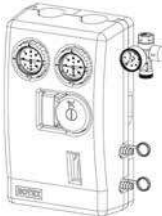









Drain-back system



Pressurised system


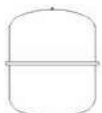





Solar panel - pressurised system



		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

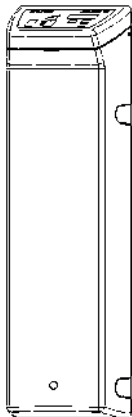


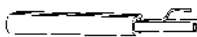
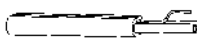


Solar panel - pressurised system




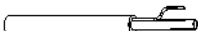
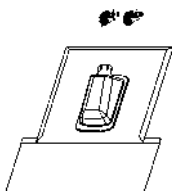
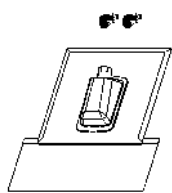
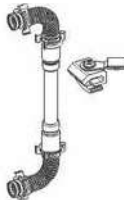
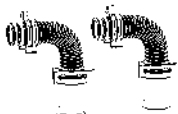

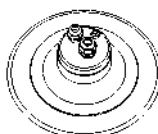
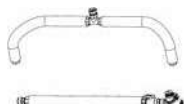
		Article	Type	Order No.
Expansion vessel 12 L with connection block		For solar panels with pressure systems of max. 2 x EKS21P - solar panels.	MAG S12	16 20 70
Expansion vessel 25 L with connection block		For solar panels with pressure systems of max. 3 solar panels.	MAG S 25	16 20 50
Expansion vessel 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.	
EKS RPS4 regulation and pump unit	<div></div> <div>Ready to plug in unit (230V), with digital differential temperature regulation, return and storage tank temperature sensors, high-efficiency circulation pump.</div> <div>INFO: The flow sensor (FLS 20), included in the supply, provides more effective operation of the EKS RPS4. 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.</div>	EKS RPS4	EKS RPS4A	
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	<div></div>	For RPS2, RPS3, RPS3 M, RPS3 25M.	BSKK	16 41 10-RTX
Solar panel FlowGuard solar flow regulator	<div></div>	With solar flow indicator 2-16 l/min.	FLG	16 41 02-RTX
Connection tube solar panel	<div></div>	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	<div></div>	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	<div></div>	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	<div></div>	For connecting a collector array (EKSV21P, EKSV26P, EKSH26P) to the on-site rigid copper connection pipes when using roof penetration box kits EKSRCAP, EKSRCP, RCIP, RCFP.	CON X20 25M	16 42 31

Solar panels - drain-back system

	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: <table><tr><th>Number of solar panels</th><th>Max. length</th></tr><tr><td>2</td><td>45 m</td></tr><tr><td>3</td><td>30 m</td></tr><tr><td>4</td><td>17 m</td></tr><tr><td>5</td><td>15 m</td></tr></table>	Number of solar panels	Max. length	2	45 m	3	30 m	4	17 m	5
Number of solar panels	Max. length										
2	45 m										
3	30 m										
4	17 m										
5	15 m										
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								
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								
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								
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								
Installation material, solar panel in-roof		Ready to plug in including installation material and connection fittings.	RCIP								
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								
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								
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								

Solar panels - drain-back system



		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



Accessory				EKSVP21P	EKSVP26P	EKSH26P
Mounting				Vertical		Horizontal
Dimensions	Unit	Height x Width x Depth	mm	2,000 x 1,006 x 85	2,000 x 1,300 x 85	1,300 x 2,000 x 85
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 (η _{col})		%	53		
	Zero loss collector efficiency η ₀		%	0.71		
	Heat loss coefficient a ₁		W/m ² .K	4,300		
	Temperature dependence of the heat loss coefficient a ₂		W/m ² .K ²	0.006		
	Thermal capacity		kJ/K	4.90	6.50	

EKSRRS4A/EKSRRDS2A

Pump station

- › Save energy and reduce CO₂ 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



Accessory				EKSRRS4A	EKSRRDS2A
Mounting				On side of tank	On wall
Dimensions	Unit	Height x Width x Depth	mm	815 x 142 x 230	410 x 314 x 154
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 Q _{aux}		kWh	92.1	89
	Solstandby		W	2.00	5.00



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