

Product catalogue 2021
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.

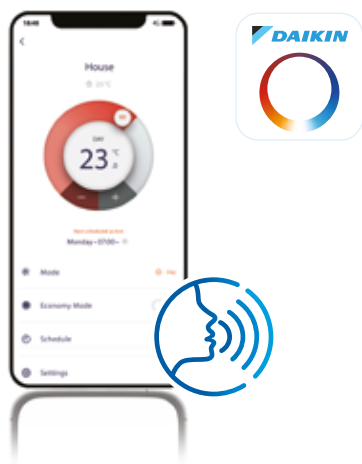
Did you know?

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 2021



Daikin Residential Controller App

- p. 196 **NEW**
- › Allows voice control of the Daikin system
 - › Can integrate with Amazon Alexa and Google assistant voice control
 - › Helps scheduling the operation mode, room temperature, holiday mode...
 - › Enables room and DHW temperature control, powerful mode to boost hot water production
 - › Applicable for Split, Heating and Sky Air units



Daikin Altherma 3 M

EBLA/EDLA09-16D(3)V3/(3)W1

- p. 80 **NEW**
- › WLAN cartridge connection (optional)
 - › Possible to combine with domestic hot water tanks
 - › Heating only or reversible air-to-water heat pump
 - › Monobloc all-in-one concept including all hydraulic parts
 - › An optional built-in 3 kW electric back-up heater or a separate back-up heater kit are available for additional heating
 - › Available in one phase and three phase



Daikin Altherma M HW

EKH(H/L)E-(P)CV3

- p. 122 **NEW**
- › Available in floor standing (200-260 L)
 - › Compact modern design
 - › Anti-legionella cycle
 - › Scheduled operation
 - › Integrated solar thermal control (EKHHE-PCV3)
 - › Suitable for warm climate (EKHLE-CV3)

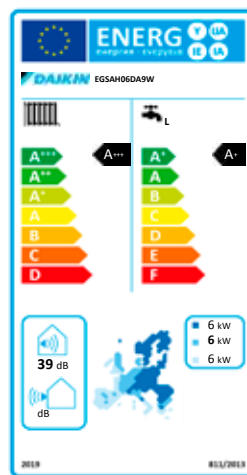
Top-notch technologies and efficiency

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

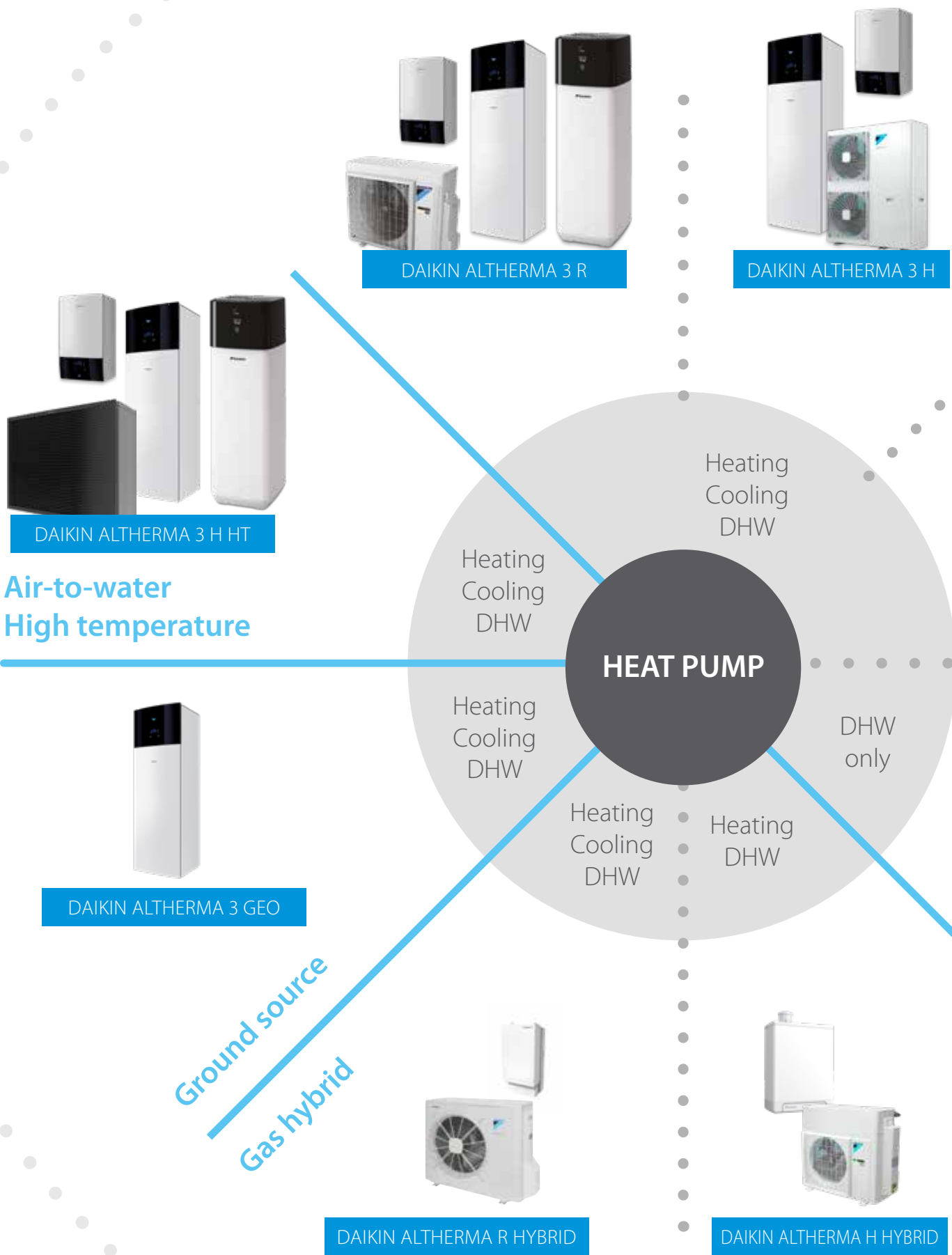


The Heat Pump KEYMARK is a voluntary, independent, European certification mark for all heat pumps. It certifies space heating performance, sound power level, domestic hot water performance as well as operating tests.

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 <http://www.heatpumpkeymark.com>.



A solution for every need

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.



DAIKIN ALTHERMA 3 M

DAIKIN ALTHERMA M



DAIKIN ALTHERMA R HW

DAIKIN ALTHERMA M HW

Air-to-water
Low temperature

1. HEAT EMITTERS

- › Daikin Altherma HPC, heat pump convectors
[Page 200](#)
- › Daikin Altherma UFH, underfloor heating
[Page 208](#)

2. CONTROLS

- › Stand By Me
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- › Madoka
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- › Daikin Residential Controller App
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3. HEAT COLLECTORS

- › Daikin Altherma ST, solar thermal solutions
[Page 214](#)

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



Daikin Residential Contoller

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

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 functions:
underfloor heating and Fan Coil
selection tool



Daikin e-Care

Newest function:
Commissioning Assistant

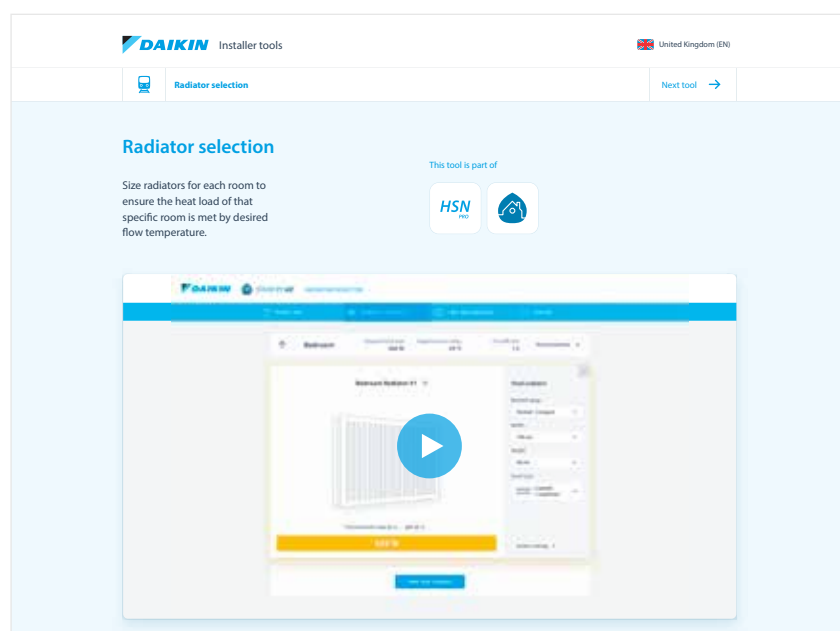


Stand By Me

Newest function:
remote control

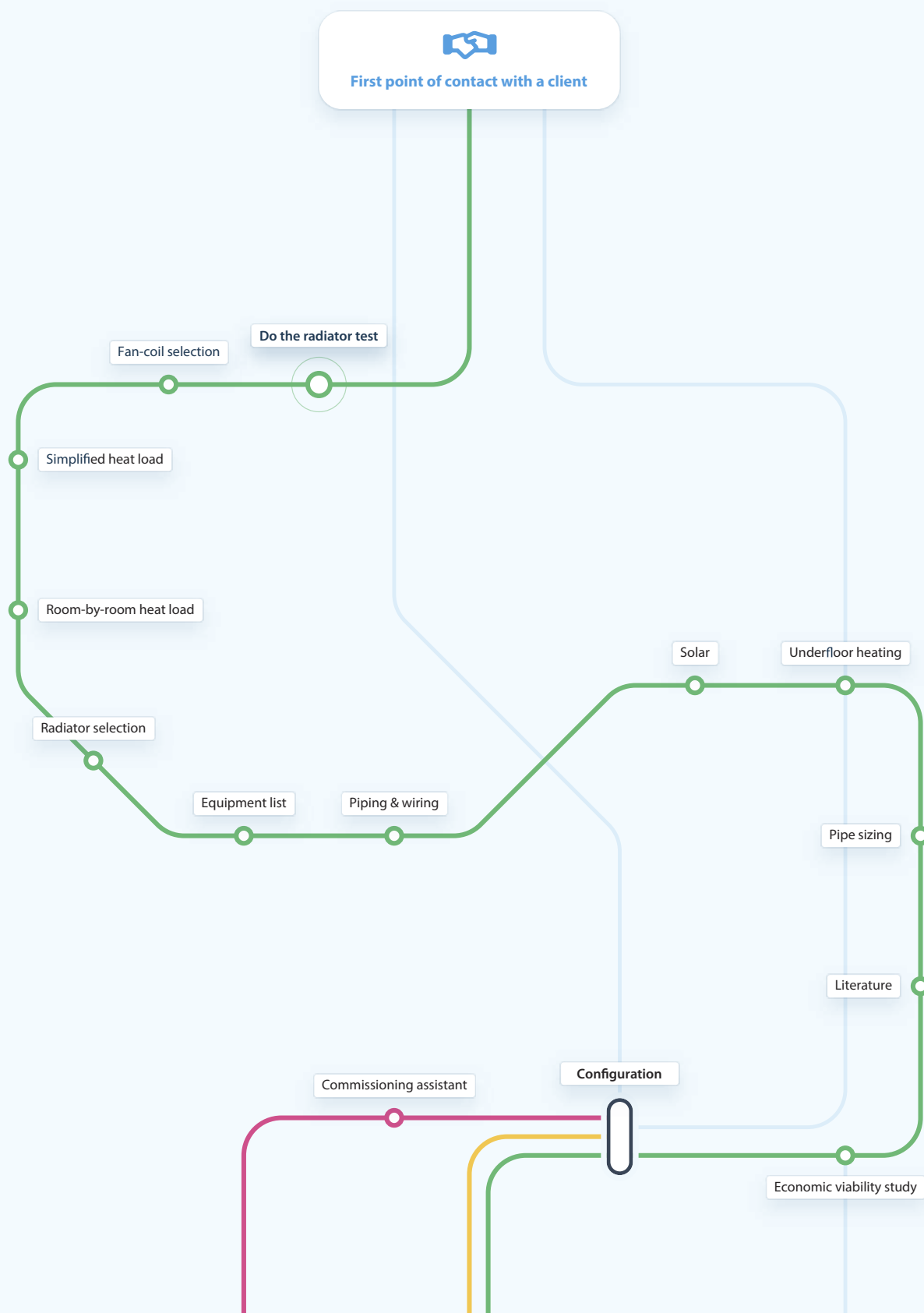


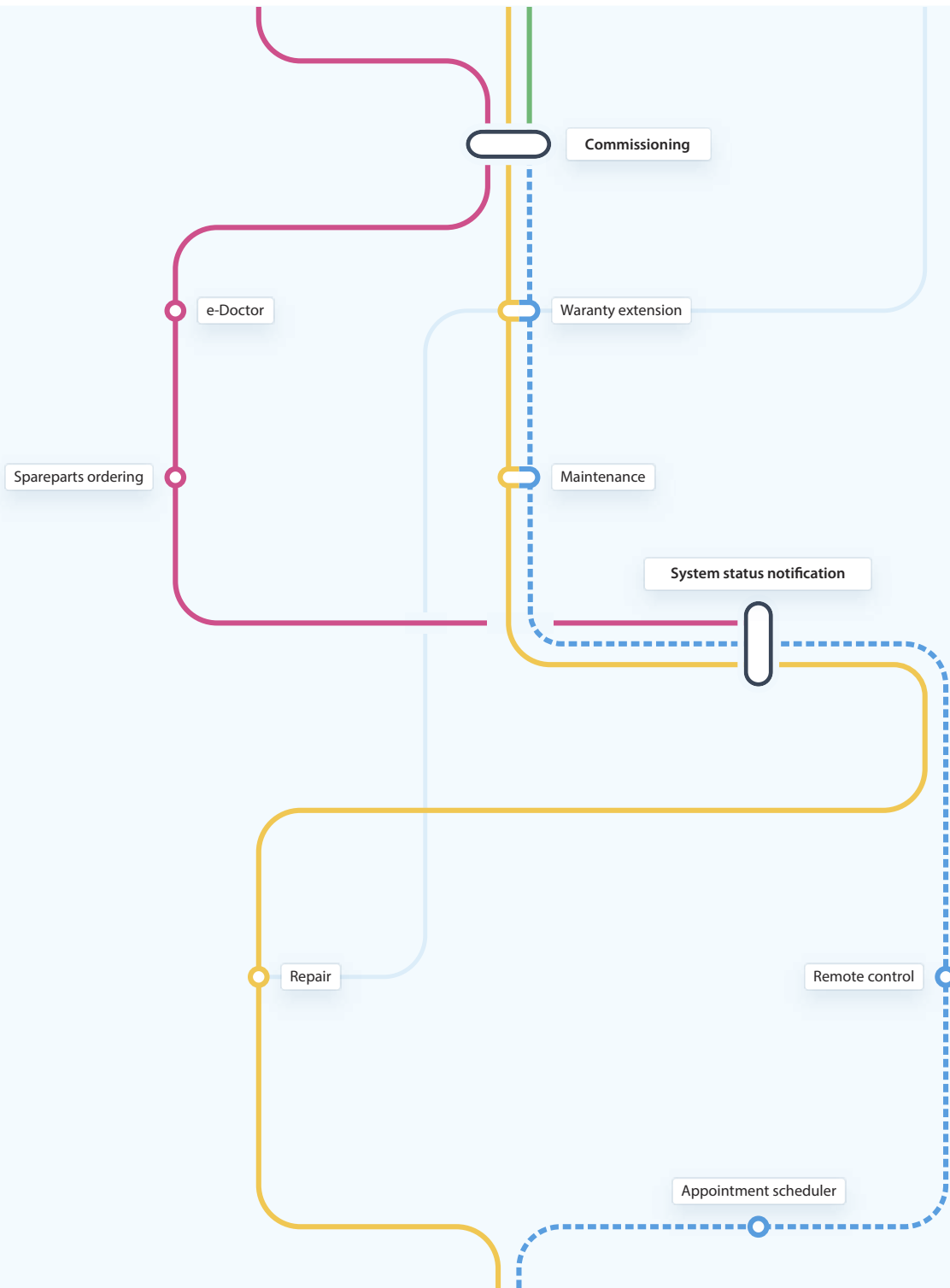
Daikin Residential Controller



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

Daikin Residential controller app

- Warranty extension
- Maintenance
- Remote control
- Appointment scheduler



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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 via app with the Daikin Residential Controller



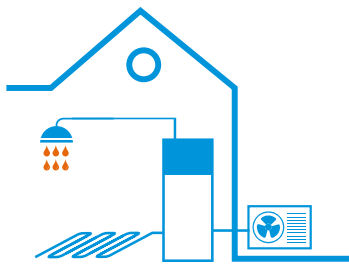
Daikin Altherma 3 R offers a wide range to adapt to your customers needs

✓ **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

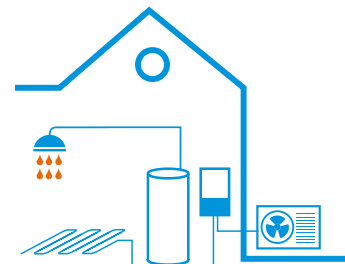


Daikin Altherma 3 R ECH₂O

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?

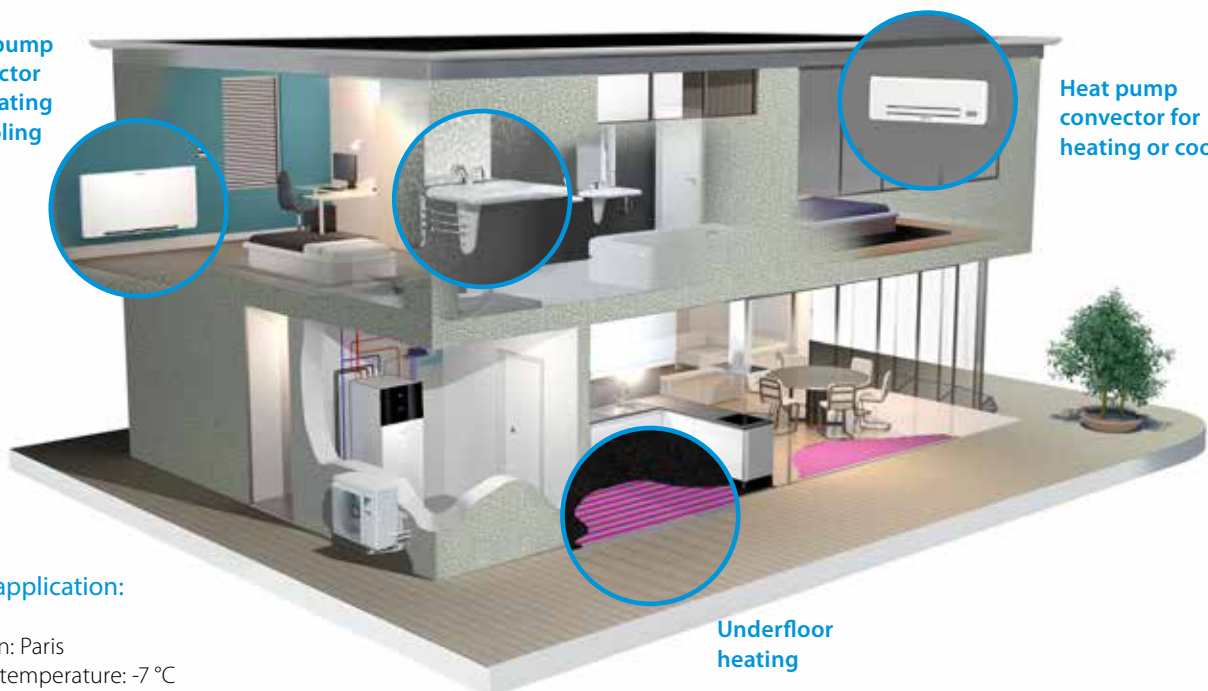
The Daikin Altherma 3 floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for new build and low energy houses.

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

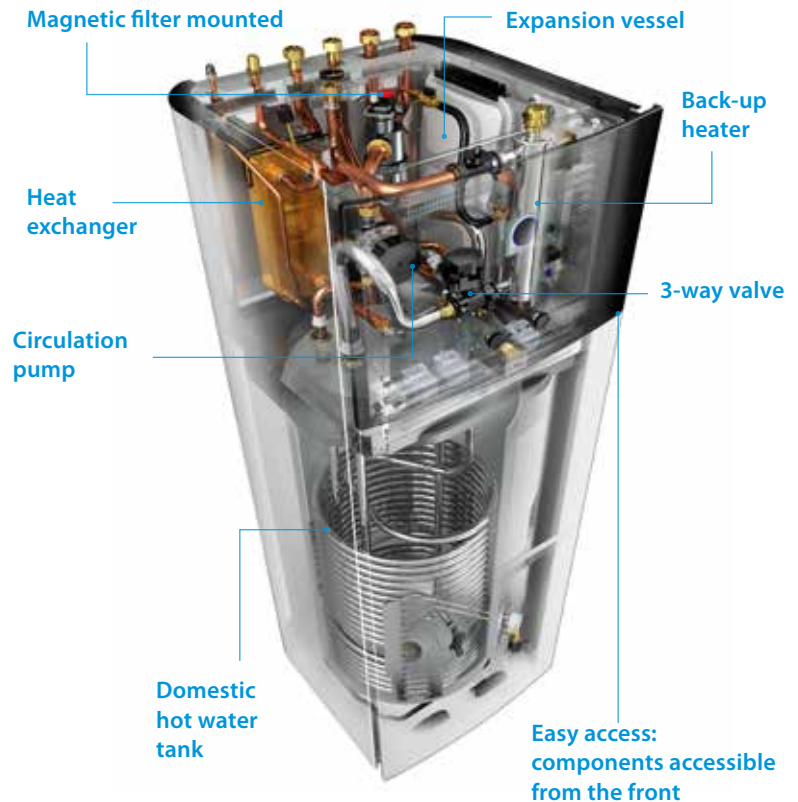
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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.



Heat pumps

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!

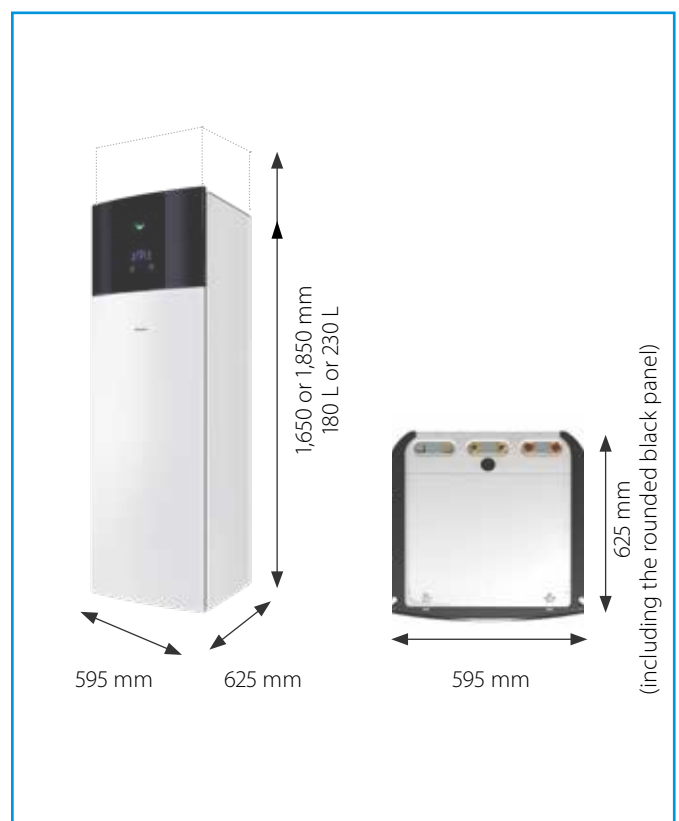
Easy operation

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.

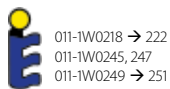
Integrated indoor unit



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 Daikin Residential Controller app
- › Voice control available



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

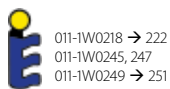
Efficiency data				EHVH + ERGA		04S18E 6V+ 04EV		04S23E 6V+ 04EV		08S18E6V/ E9W + 06EV		08S23E6V/ E9W + 06EV		08S18E6V/ E9W + 08EV		08S23E6V/ E9W + 08EV		
Heating capacity		Nom.		kW		4.30 (1) / 4.60 (2)				6.00 (1) / 5.90 (2)				7.50 (1) / 7.80 (2)				
Power input		Heating		Nom.		kW		0.850 (1) / 1.26 (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					
			ηs (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			
			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		L		XL	
	Average climate		ηwh (water heating efficiency)		%		125		133		125		133		125		133	
				Water heating energy efficiency class										A+				
Indoor Unit				EHVH		04S18E6V		04S23E6V		08S18E6V/E9W		08S23E6V/E9W		08S18E6V/E9W		08S23E6V/E9W		
Casing		Colour								White + Black								
		Material								Resin / Sheet metal								
Dimensions		Unit		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		
Weight		Unit				kg		119		128		119		128		119		
Tank	Water volume				L		180		230		180		230		180		230	
	Maximum water temperature				°C						70							
	Maximum water pressure				bar						10							
	Corrosion protection										Pickling							
Operation range	Heating	Ambient	Min.~Max.	°C						5~30								
		Water side	Min.~Max.	°C						15 ~65								
	Domestic hot water	Ambient	Min.~Max.	°CDB						5~35								
		Water side	Max.	°C						70								
Sound power level		Nom.				dBA				42								
Sound pressure level		Nom.				dBA				28								
Outdoor Unit				ERGA		04EV		06EV		08EV								
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 Daikin Residential Controller app
- › Voice control available



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



Efficiency data				EHVX + ERGA	04S18E3V/ E6V(G) + 04EV		04S23E3V/ E6V(G) + 04EV		08S18E6V(G)/ E9W + 06EV		08S23E6V(G)/ E9W + 06EV		08S18E6V(G)/ E9W + 08EV		08S23E6V(G)/ E9W + 08EV				
Heating capacity		Nom.			kW		4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		7.50 (1) / 7.80 (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)		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)		6.25 (1) / 5.44 (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)		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)		4.60 (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)		5.40 (1) / 3.14 (2)		5.40 (1) / 3.14 (2)				
	Average climate water outlet 55 °C	General	SCOP			3.29		3.28		3.35		3.35		3.35		3.35			
			ηs (Seasonal space heating efficiency)		%	129		128		131		131		131					
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class			A++		A++		A++		A++		A++		A++			
			SCOP			4.54		4.52		4.61		4.61		4.61					
	Average climate	General	Declared load profile			L		XL		L		XL		L		XL			
			ηwh (water heating efficiency)		%	127		125		134		133		125		133			
	Water heating energy efficiency class			A+															
	Indoor Unit				EHVX	04S18E3V/E6V(G)		04S23E3V/E6V(G)		08S18E6V(G)/E9W		08S23E6V(G)/E9W		08S18E6V(G)/E9W		08S23E6V(G)/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				06EV				08EV						
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													
Sound power level	Control					Expansion valve													
	Heating	Nom.		dBA	58				60				62						
	Cooling	Nom.		dBA	61								62						
	Heating	Nom.		dBA	44				47				49						
Sound pressure level	Cooling	Nom.		dBA	48				49				50						
	Cooling	Nom.		dBA															
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 Daikin Residential Controller app
- › Voice control available






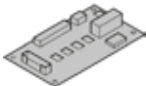
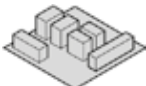






011-IW0218 → 222

Efficiency data				EHVZ + ERGA		04S18 E6V + 04EV		08S18 E6V/E9W + 06EV		08S23 E6V/E9W + 06EV		08S18 E6V/E9W + 08EV		08S23 E6V/E9W + 08EV		
Heating capacity		Nom.		kW		4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)				7.50 (1) / 7.80 (2)		4.60 (1) / 3.50 (2)		
Power input		Heating		Nom.		kW		0.850 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		4.60 (1) / 3.50 (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			
	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		06EV		08EV		08EV		08EV		
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.

Options - Daikin Altherma 3 R F

		Type	Material name
Controllers		Remote user interface	BRC1HHDW/S/K
		WLAN module	BRP069A71
		Room thermostat (wired)	EKRTWA
		Room thermostat (wireless)	EKRTR1
		External sensor	EKRTETS
Adapter		Demand PCB	EKRPIAHTA
		Digital I/O PCB	EKRPIHBAA
Installation		Bi-Zone kit (watts kit)	BZKA7V3
Sensors		Remote indoor sensor	KRCS01-1
		Remote outdoor sensor	EKRSCA-1
Others		PC USB Cable	EKPCCAB4
		Conversion kit	EKHVCONV
		Low sound cover for ERGA-E	EKLN-A

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

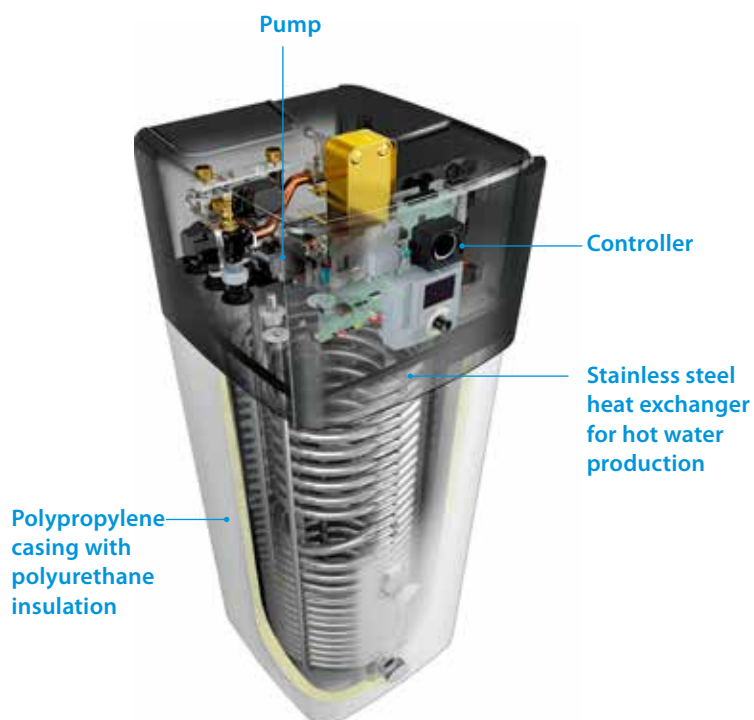
Innovative and high-quality tank

- › 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

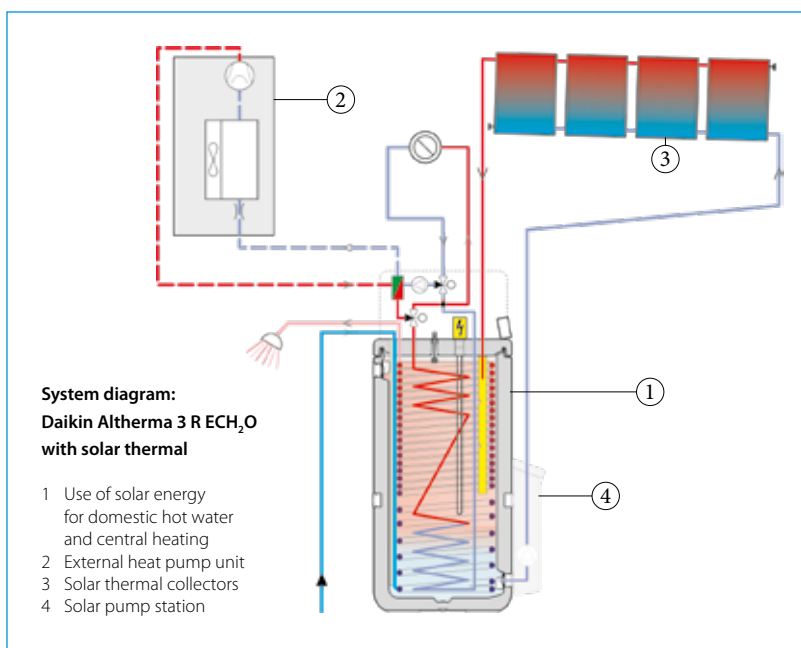
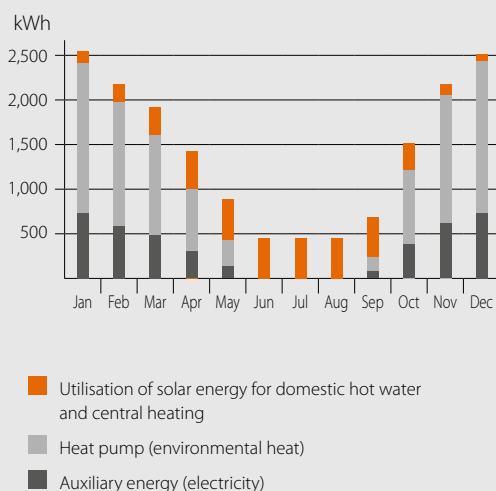
Pressureless (drain-back) solar system (EHSB-D3, EHSX-D3)

- › 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 (EHSB-D3, EHSXB-D3)

- › 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



011-IW0262
011-IW0264 → 267

Efficiency data				EHS + ERGA	04P30D3 + 04EV	08P30D3 + 06EV	08P50D3 + 06EV	08P30D3 + 08EV	08P50D3 + 08EV
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)		%	115	106	115	106	
		Water heating energy efficiency class		A+		A	A+	A	
Indoor Unit				EHS	04P30D3	08P30D3	08P50D3	08P30D3	08P50D3
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material			Impact resistant polypropylene					
Dimensions	Unit	Height x Width x Depth		mm	1,891 x 595 x 615		1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790
Weight	Unit			kg	73		93	73	93
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	06EV	08EV		
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		
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

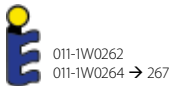
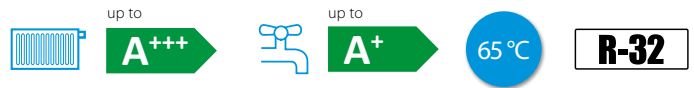
Floor standing air to water heat pump for **bivalent heating and hot water** with thermal solar support

- › 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



ERGA-EV

EHSB-D3



011-1W0262
011-1W0264 → 267

Efficiency data				EHSB + ERGA		04P30D3 + 04EV		08P30D3 + 06EV		08P50D3 + 06EV		08P30D3 + 08EV		08P50D3 + 08EV				
Heating capacity		Nom.			kW		4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)				7.50 (1) / 7.80 (2)					
Power input		Heating		Nom.			kW		0.84 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)				1.63 (1) / 2.23 (2)			
COP							5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)				4.60 (1) / 3.50 (2)					
Space heating	Average climate water outlet 55 °C	General	SCOP				3.26						3.32					
			ηs (Seasonal space heating efficiency)		%		127						130					
			Seasonal space heating eff. class				A++											
	Average climate water outlet35 °C	General	SCOP				4.48		4.47				4.56					
			ηs (Seasonal space heating efficiency)		%		176						179					
			Seasonal space heating eff. class				A+++											
Domestic hot water heating	General		Declared load profile				L				XL		L		XL			
	Average climate		ηwh (water heating efficiency)		%		115				110		115		110			
			Water heating energy efficiency class				A+				A		A+		A			
Indoor Unit				EHSB				04P30D3		08P30D3		08P50D3		08P30D3		08P50D3		
Casing		Colour				Traffic white (RAL9016) / Dark grey (RAL7011)												
		Material														Impact resistant polypropylene		
Dimensions		Unit		Height x Width x Depth		mm		1,891 x 595 x 615				1,896 x 790 x 790		1,891 x 595 x 615				
Weight		Unit				kg		73				93		73		93		
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		06EV				08EV				
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				
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



011-1W0262 → 267

Efficiency data				EHSX + ERGA		04P30D3 + 04EV		04P50D3 + 04EV		08P30D3 + 06EV		08P50D3 + 06EV		08P30D3 + 08EV		08P50D3 + 08EV							
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					
		Average climate water outlet 35 °C		General		Seasonal space heating eff. class						A++											
						SCOP				4.54				4.52				4.61					
 Domestic hot water heating		Average climate		General		ηs (Seasonal space heating efficiency)				179				178				181					
						Seasonal space heating eff. class						A+++											
		Declared load profile				L		XL		L		XL		L		XL							
		Average climate		ηwh (water heating efficiency)				115		106		115		106		115		106					
		Water heating energy efficiency class				A+		A		A+		A		A+		A							
Indoor Unit				EHSX		04P30D3		04P50D3		08P30D3		08P50D3		08P30D3		08P50D3							
Casing		Colour		Traffic white (RAL9016) / Dark grey (RAL7011)																			
		Material																					
Dimensions		Unit		Height x Width x Depth		mm		Impact resistant polypropylene															
Weight		Unit				kg		73		93		73		93		73		93					
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		06EV		08EV													
Dimensions		Unit		Height x Width x Depth		mm		740 x 884 x 388															
Weight		Unit				kg		58.5															
Compressor		Quantity		1																			
		Type																					
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													
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, 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





ERGA-EV

EHSXB-D3










011-1W0262 → 267

Efficiency data				EHSXB + ERGA	04P30D3 + 04EV	04P50D3 + 04EV	08P30D3 + 06EV	08P50D3 + 06EV	08P30D3 + 08EV	08P50D3 + 08EV	
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)			115	110	115	110	115	110	
		Water heating energy efficiency class			A+	A	A+	A	A+	A	
Indoor Unit					EHSXB	04P30D3	04P50D3	08P30D3	08P50D3	08P30D3	08P50D3
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material			Impact resistant polypropylene							
Dimensions	Unit	Height x Width x Depth		mm	1,891 x 595 x 615	1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790	1,891 x 595 x 615	1,896 x 790 x 790	
Weight	Unit			kg	76	99	76	99	76	99	
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	06EV		08EV		
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		
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.

Options

Type	Daikin Altherma 3 R ECH ₂ O		Material name
Controllers		Room thermostat	RoCon U1 / EHS157034
		Mixer module	RoCon M1 / EHS157068
		Remote outdoor sensor	EKRSC1
		Gateway for apps	RoCon G1 / EHS157056
Back-up heater		Back-up heater 1 kW + Switchbox	EKBUB1C + EKBUSWB
		Back-up heater 3 kW + Switchbox	EKBUB3C + EKBUSWB
		Back-up heater 9 kW + Switchbox	EKBUB9C + EKBUSWB
Hydraulics		Hydraulic separator	HWC / 172900
		Heat insulation for HWC	WHWC / 172901
Pump group		Pump group with mixer module	156075
		Pump group without mixer module	156077
Additional connections		Dirt separator SAS1	SAS1 / 156021
		Dirt separator SAS2	SAS2 / 156023
		Biv connector kit	141589
		DB connector kit	141590
		Terminal connection kit	141592
Other		Connector external heater	141591
		Low sound cover for ERGA-E	EKLN-A



Daikin Altherma 3 R W

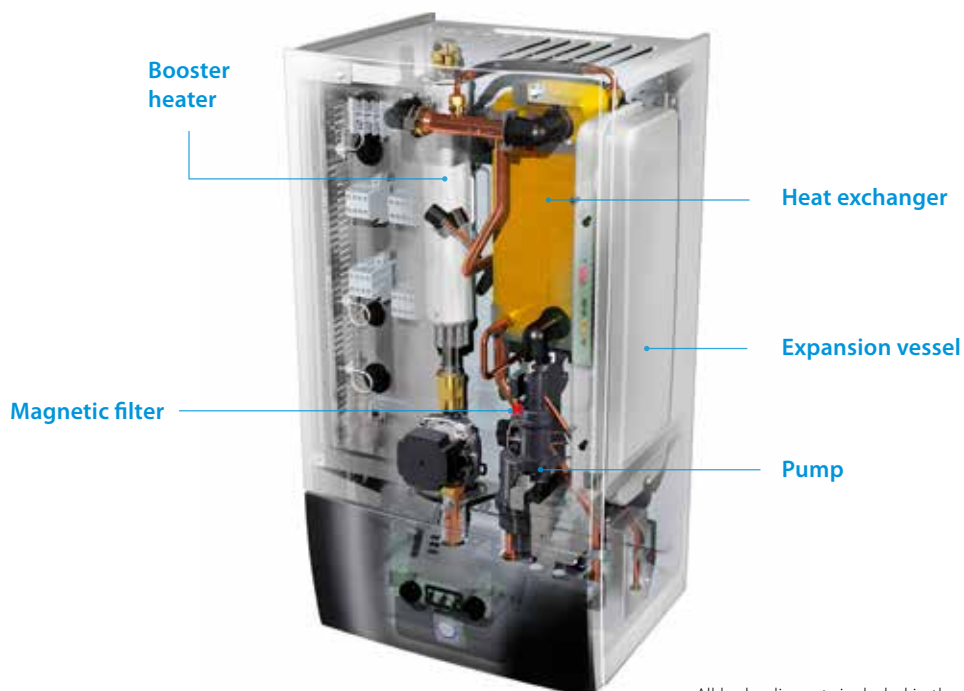
Wall mounted unit

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-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 Daikin Residential Controller app
- › Voice control available



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

Efficiency data				EBBH + ERGA		04E6V + 04EV		08E6V + 06EV		08E9W + 06EV		08E6V + 08EV		08E9W + 08EV	
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>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+++						
Indoor Unit				EBBH		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		06EV		08EV					
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 W

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






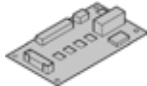
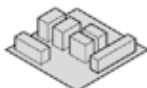




- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends 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 Daikin Residential Controller app
- › Voice control available



Efficiency data				EBHX + ERGA		04E6V + 04EV		08E6V + 06EV		08E9W + 06EV		08E6V + 08EV		08E9W + 08EV		
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>	<div>Average climate water outlet 55 °C</div>	General	SCOP				3.29		3.28		3.35					
			η _s (Seasonal space heating efficiency)		%		129		128		131					
			Seasonal space heating eff. class						A++							
	<div>Average climate water outlet 35 °C</div>	General	SCOP				4.54		4.52		4.61					
			η _s (Seasonal space heating efficiency)		%		179		178		181					
			Seasonal space heating eff. class						A+++							
Indoor Unit				EBHX		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		06EV				08EV				
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.

Options - Daikin Altherma 3 R W

		Type	Material name
Controllers		Remote user interface	BRC1HHDW/S/K
		WLAN Adapter module	BRP069A71
		Room thermostat (wired)	EKRTWA
		Room thermostat (wireless)	EKRTR1
		External sensor	EKRTETS
Adapter		Demand PCB	EKRPIAHTA
		Digital I/O PCB	EKRPIHBAA
Installation		Bi-Zone kit (watts kit)	BZKA7V3
Sensors		Remote indoor sensor	KRCS01-1
		Remote outdoor sensor	EKRSCA-1
Others		PC USB Cable	EKPCCAB4
		Conversion kit	EKHBCONV
		Low sound cover for ERGA-E	EKLN-A
		Connection kit with storage tank EKHWP*	EKBH3SD



Daikin Altherma 3 H

EPGA-D 11-14-16 kW
powered by Bluevolution with R-32

R-32, the environmentally-friendly refrigerant

Bluevolution

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

BLUEVOLUTION

R-32

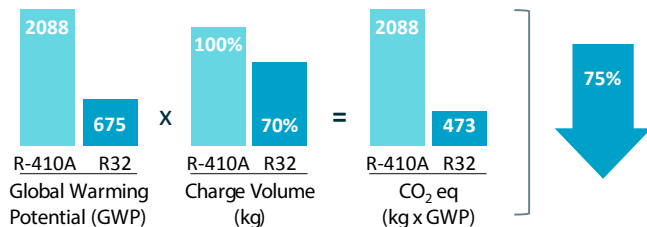


reddot award 2018
winner



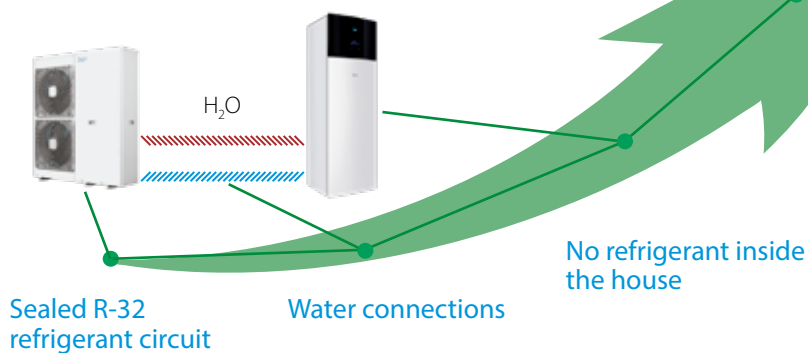
Environmentally-friendly

Thanks to the combination of its lower GWP (675 vs. 2,087, 5 for R-410A) and a lower refrigerant charge, R-32 is able to reduce by 75% its CO₂ equivalent which makes it better for the environment.



The hydrosplit concept

Looking ahead to a better future



Sealed R-32 refrigerant circuit

Reduction of the risk of refrigerant leakage.

Water connections

Between the indoor and the outdoor units.

With R-32, the future is now

Pioneer in the use of R-32 in air-to-water heat pumps, Daikin places the reduction of its environment impact as an absolute priority.

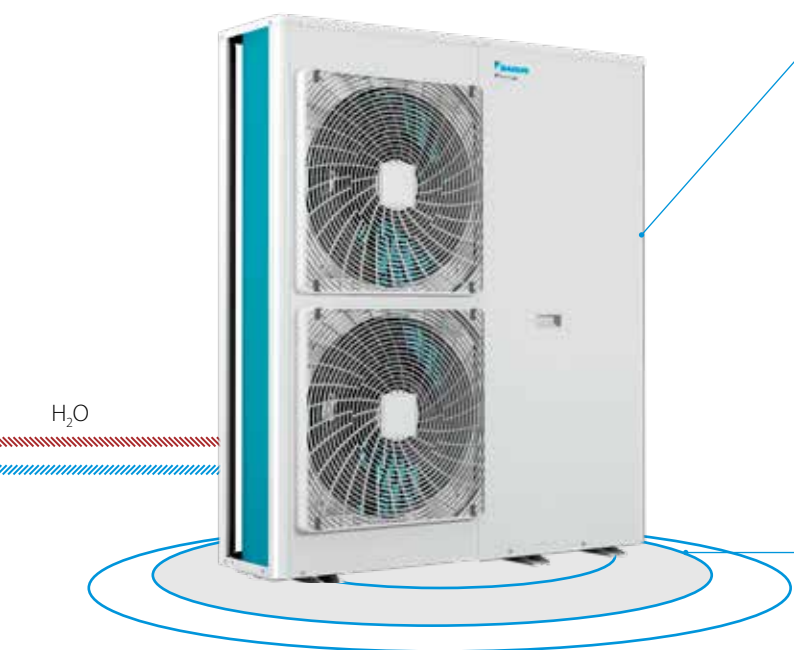


Gas injection advantage

Higher capacity at low ambient

The Daikin Daikin Altherma 3 H 11-14-16 kW outdoor unit is equipped with a new gas injection scroll compressor allowing the unit to operate down to -28 °C outside temperature.

Moreover, the heating capacity at low ambient temperature (-7/35 °C) sees an improvement of 35% compared to its predecessor.



Convenient for sensitive urban areas

Low sound installer setting

In order to fulfill the requirements of the most sound sensitive urban areas, the installer can set up the unit in low sound mode that reduce the sound level by -3 dB(A).

Higher performances

Leaving water temperature

With a leaving water temperature of 60 °C at -10 °C outside, the Daikin Altherma 3 H 11-14-16 kW is perfect:

- › For new build applications using underfloor heating
- › For renovation applications using radiators

Top energy performances

Thanks to the use of R-32, the unit reaches the highest energy performances represented by the best energy labels.

Daikin Altherma 3 H 11-14-16 kW outdoor unit

The outdoor unit EPGA-D is available in size 11-14-16 kW 1 phase and is connectable to:

- › EAB(H/X)-D wall mounted indoor units
- › EAV(H/X)-D tank integrated floor standing indoor units
- › EAVZ-D tank integrated and Bi-Zone floor standing indoor units

up to



Daikin Altherma 3 H F

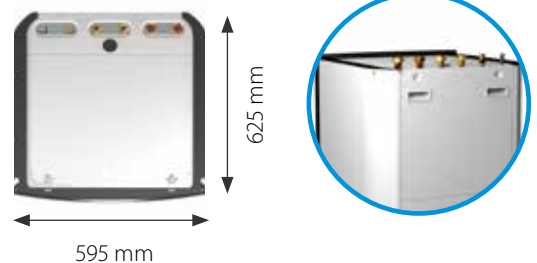
with integrated domestic hot water tank

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

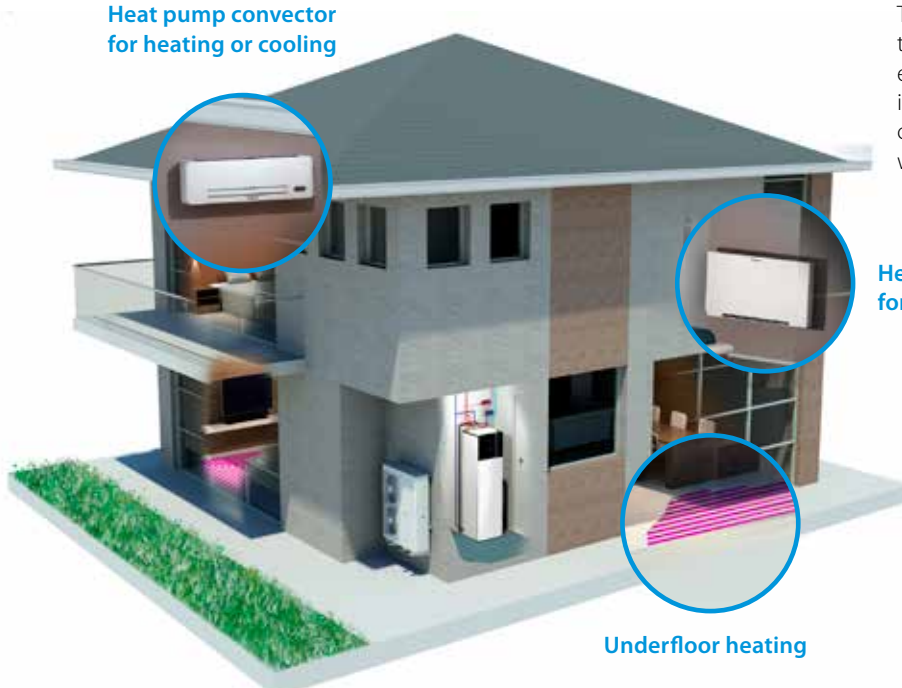
The Daikin Altherma 3 H floor standing unit is the ideal system **to deliver heating, domestic hot water and cooling** for new build and low energy houses.

Easy to install

Small footprint & practical handles



Heat pump convector for heating or cooling



Heat pump convector for heating or cooling

Underfloor heating

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 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 an USB stick and download it directly into the unit, or via the cloud.

Easy operation

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

A complete range to answer all needs

Heating only models - EAVH-D

The heating only Daikin Altherma 3 models provide domestic hot water and space heating in an efficient way.

Reversible models - EAVX-D

Additionally to its core function, Daikin Altherma 3 can provide cooling during hot season.

This cooling function is working via emitters such as an underfloor system or thanks to a fancoil.



Bi-Zone models - EAVZ-D

Daikin also provides a third option to satisfy all the needs: the Daikin Altherma 3 Bi-Zone models. Bi-Zone means that the unit can manage two different water temperature zones at the same time, for instance radiators (45 °C) in the bedroom and underfloor heating (35 °C) in the living room.



Colour choice



White

Silver-grey

Capacity and sizes



180 or 230 l
1,650 or 1,850 mm

Daikin Altherma 3 H F



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

- › Integrated stainless steel domestic hot water tank of 180 or 230 L
- › 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 -28 °C



011-1W0319 -> 324



Efficiency data				EAVH + EPGA	16S18D6V(G)/ D9W(G) + 11DV	16S23D6V(G)/ D9W(G) + 11DV	16S18D6V(G)/ D9W(G) + 14DV	16S23D6V(G)/ D9W(G) + 14DV	16S18D6V(G)/ D9W(G) + 16DV	16S23D6V(G)/ D9W(G) + 16DV	
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)		
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)		
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)		
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.34		3.41		
			η _{sp} (Seasonal space heating efficiency)	%	129		130		133		
			Seasonal space heating eff. class	A++							
	Average climate water outlet 35 °C	General	SCOP		4.38		4.45		4.56		
			η _{sp} (Seasonal space heating efficiency)	%	172		175		179		
				Seasonal space heating eff. class	A++		A+++				
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL	
	Average climate	η _{wh} (water heating efficiency)			%	104	111	104	111	104	111
		Water heating energy efficiency class			A						
Indoor Unit				EAVH	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	
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	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	5~30						
		Water side	Min.~Max.	°C	15~60						
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35						
		Water side	Max.	°C	60						
Sound power level	Nom.				dBA	44					
Sound pressure level	Nom.				dBA	30					
Outdoor Unit				EPGA	11DV		14DV		16DV		
Dimensions	Unit	Height x Width x Depth		mm	1,440 x 1,160 x 380						
Weight	Unit				kg	143					
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10~43						
	Domestic hot water	Min.~Max.		°CDB	-28~35						
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge				kg	3.50					
	Charge				TCO ₂ /Eq	2.36					
	Control				Expansion valve						
Sound power level	Heating	Nom.		dBA	64				66		
	Cooling	Nom.		dBA	68						
Sound pressure level	Heating	Nom.		dBA	48		49		52		
	Cooling	Nom.		dBA	55						
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230						
Current	Recommended fuses			A	32						

(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 H F



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

- › Integrated stainless steel domestic hot water tank of 180 or 230 L
- › 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 -28 °C



011-1W0319 -> 324



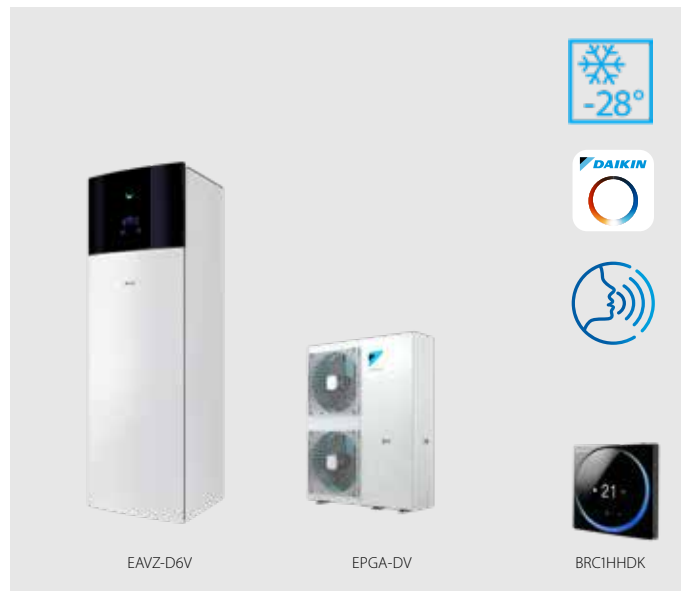
Efficiency data				EAVX + EPGA	16S18D6V(G)/ D9W(G) + 11DV	16S23D6V(G)/ D9W(G) + 11DV	16S18D6V(G)/ D9W(G) + 14DV	16S23D6V(G)/ D9W(G) + 14DV	16S18D6V(G)/ D9W(G) + 16DV	16S23D6V(G)/ D9W(G) + 16DV	
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)		
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)		
Cooling capacity	Nom.			kW	10.5 (1) / 10.7 (2)		11.1 (1) / 11.9 (2)		13.5 (1) / 11.9 (2)		
Power input	Cooling	Nom.		kW	2.21 (1) / 3.30 (2)		2.72 (1) / 3.97 (2)		3.42 (1) / 3.97 (2)		
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)		
EER					4.75 (1) / 3.23 (2)		4.09 (1) / 2.99 (2)		3.94 (1) / 2.99 (2)		
	Average climate water outlet 55 °C	General	SCOP		3.32		3.37		3.43		
			η _s (Seasonal space heating efficiency)	%	130		132		134		
			Seasonal space heating eff. class				A++				
	Average climate water outlet 35 °C	General	SCOP		4.44		4.51		4.61		
			η _s (Seasonal space heating efficiency)	%	175		178		182		
			Seasonal space heating eff. class		A++		A+++				
	General	Declared load profile			L	XL	L	XL	L	XL	
	Average climate	η _{wh} (water heating efficiency)			%	104	111	104	111	104	111
		Water heating energy efficiency class			A						
Indoor Unit				EAVX	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	
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	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						
Operation range	Corrosion protection				Pickling						
	Heating	Ambient	Min.~Max.	°C	5~30						
		Water side	Min.~Max.	°C	15~60						
	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	60						
Sound power level	Nom.			dBA	44						
Sound pressure level	Nom.			dBA	30						
Outdoor Unit				EPGA	11DV		14DV		16DV		
Dimensions	Unit	Height x Width x Depth			mm	1,440 x 1,160 x 380					
Weight	Unit				kg	143					
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10~43						
	Domestic hot water	Min.~Max.		°CDB	-28~35						
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge	kg			3.50						
	Charge	TCO ₂ Eq			2.36						
	Control				Expansion valve						
	Sound power level	Heating	Nom.		dBA	64				66	
Cooling		Nom.		dBA	68						
Sound pressure level	Heating	Nom.		dBA	48		49		52		
	Cooling	Nom.		dBA	55						
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1N~/50/230					
Current	Recommended fuses				A	32					

(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 H F



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

- › Integrated stainless steel domestic hot water tank of 180 or 230 L
- › 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 -28 °C











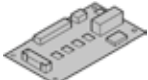





011-1W0319 -> 324



Efficiency data				EAVZ + EPGA	16S18D6V/D9W + 11DV	16S23D6V/D9W + 11DV	16S18D6V/D9W + 14DV	16S23D6V/D9W + 14DV	16S18D6V/D9W + 16DV	16S23D6V/D9W + 16DV	
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)		
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)		
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)		
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.34		3.41		
			ηs (Seasonal space heating efficiency)	%	129		130		133		
			Seasonal space heating eff. class				A++				
	Average climate water outlet 35 °C	General	SCOP		4.38		4.45		4.56		
			ηs (Seasonal space heating efficiency)	%	172		175		179		
			Seasonal space heating eff. class		A++		A+++				
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL	
	Average climate		ηwh (water heating efficiency)	%	104	111	104	111	104	111	
		Water heating energy efficiency class			A						
Indoor Unit				EAVZ	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W	
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	120	128	120	128	120	128	
Tank	Water volume			L	180	230	180	230	180	230	
	Maximum water temperature			°C	70						
	Maximum water pressure			bar	10						
	Corrosion protection				Pickling						
Operation range	Heating	Ambient	Min.~Max.	°C	5~30						
		Water side	Min.~Max.	°C	15~60						
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35						
		Water side	Max.	°C	60						
Sound power level	Nom.			dBA	44						
Sound pressure level	Nom.			dBA	30						
Outdoor Unit				EPGA	11DV		14DV		16DV		
Dimensions	Unit	Height x Width x Depth		mm	1,440 x 1,160 x 380						
Weight	Unit			kg	143						
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10~43						
	Domestic hot water	Min.~Max.		°CDB	-28~35						
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge			kg	3.50						
	Charge			TCO ₂ Eq	2.36						
	Control				Expansion valve						
Sound power level	Heating	Nom.	dBA	64						66	
	Cooling	Nom.	dBA					68			
Sound pressure level	Heating	Nom.	dBA	48			49		52		
	Cooling	Nom.	dBA				55				
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230						
Current	Recommended fuses			A	32						

(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.

Options

	Type	Material name
Controllers		Remote user interface
		LAN Adapter + PV Solar connection
		LAN only
		Room thermostat (wired)
		Room thermostat (wireless)
		External sensor
		DCOM gateway
		DCOM gateway
Adapter		Demand PCB
		Digital I/O PCB
Installation		Bi-Zone kit (watts kit)
Sensors		Remote indoor sensor
		Remote outdoor sensor
Others		PC USB Cable
		Conversion kit
		Universal centralized controller
		Freeze protection valve
		Heat pump convector

Daikin Altherma 3 H W

wall mounted unit

Why choose Daikin wall mounted unit?

The Daikin Altherma 3 H W 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

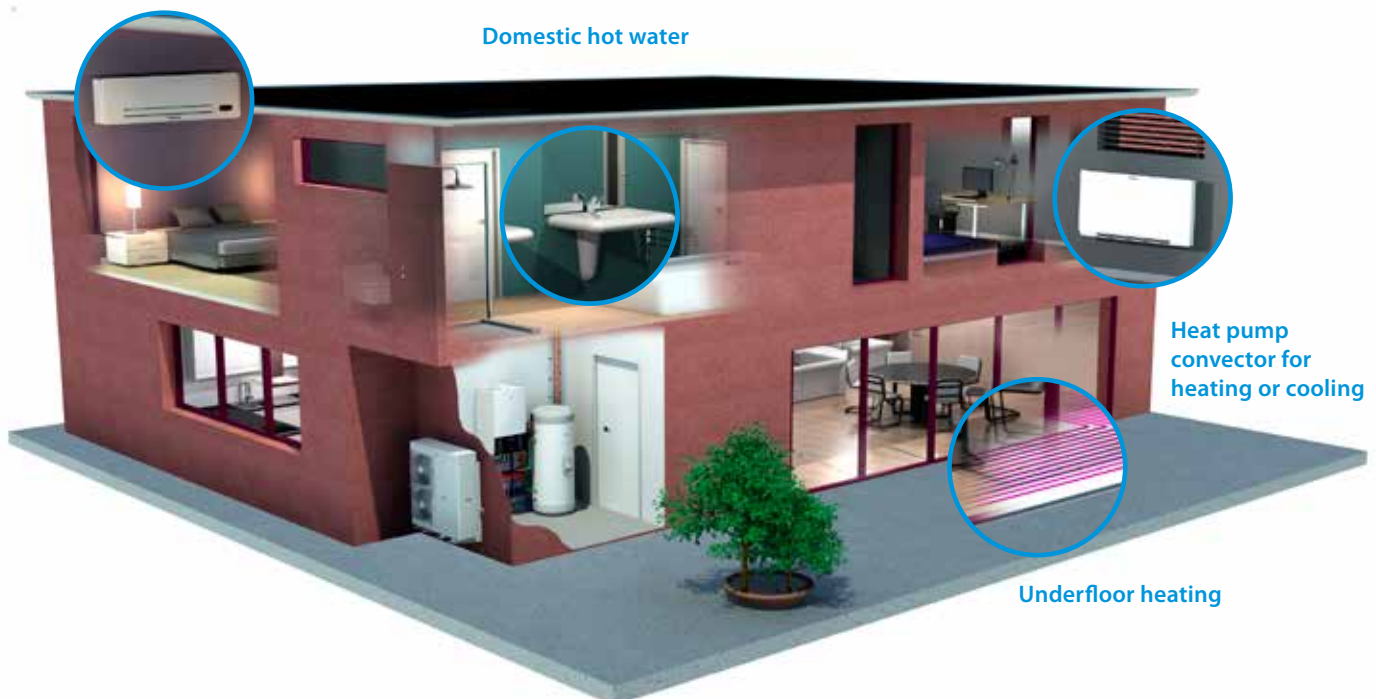
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends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

Heat pump convector for heating or cooling

Domestic hot water

Heat pump convector for heating or cooling

Underfloor heating



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 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 an USB stick and download it directly into the unit, or via the cloud.

Easy operation

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

Heat pumps

Multiple tank solutions, infinite possibilities

ECH₂O Thermal stores (EKHWP-(P)B)

Connect your Daikin Altherma 3 wall mounted unit with a thermal store and take advantage of the energy of the sun.

Stainless steel tank (EKHWS(U)-D)

Connect your Daikin Altherma 3 wall mounted unit with a stainless steel tank to achieve efficient domestic hot water heating production.

Flexibility in providing domestic hot water

Heating only models - EABH-D

The heating only Daikin Altherma 3 models provide domestic hot water and space heating in an efficient way.



Reversible models - EABX-D

Additionally to its core function, Daikin Altherma 3 can provide cooling during hot season.

This cooling function is working via emitters such as an underfloor system or thanks to a fancoil.




Daikin Altherma 3 H W

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

- › Combine with a stainless steel tank or ECH₂O thermal store to provide domestic hot water
- › 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
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28 °C



011-1W0319 -> 324

Efficiency data				EABH + EPGA	16D6V/D9W + 11DV		16D6V/D9W + 14DV		16D6V/D9W + 16DV	
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)	
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.29		3.34		3.41	
			ηs (Seasonal space heating efficiency)	%	129		130		133	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	SCOP		4.38		4.45		4.56	
			ηs (Seasonal space heating efficiency)	%	172		175		179	
			Seasonal space heating eff. class		A++		A+++			
Indoor Unit				EABH	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit	Height x Width x Depth		mm	840 x 440 x 390					
Weight	Unit			kg	38					
Operation range	Heating	Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Water side	Min.~Max.	°C	25~75					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					
Outdoor Unit				EPGA	11DV		14DV		16DV	
Dimensions	Unit	Height x Width x Depth		mm	1,440 x 1,160 x 380					
Weight	Unit			kg	143					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.		°CDB	10~43					
	Domestic hot water	Min.~Max.		°CDB	-28~35					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge			kg	3.50					
	Charge			TCO2Eq	2.36					
	Control				Expansion valve					
Sound power level	Heating	Nom.	dBA		64				66	
	Cooling	Nom.	dBA				68			
Sound pressure level	Heating	Nom.	dBA		48		49		52	
	Cooling	Nom.	dBA				55			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230					
Current	Recommended fuses			A	32					

(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 H W

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

- › Combine with a stainless steel tank or ECH₂O thermal store to provide domestic hot water
- › 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
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28 °C










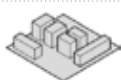






011-1W0319 -> 324

Efficiency data				EABX + EPGA	16D6V/D9W + 11DV		16D6V/D9W + 14DV		16D6V/D9W + 16DV		
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)		
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)		
Cooling capacity	Nom.			kW	10.5 (1) / 10.7 (2)		11.1 (1) / 11.9 (2)		13.5 (1) / 11.9 (2)		
Power input	Cooling	Nom.		kW	2.21 (1) / 3.30 (2)		2.72 (1) / 3.97 (2)		3.42 (1) / 3.97 (2)		
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)		
EER					4.75 (1) / 3.23 (2)		4.09 (1) / 2.99 (2)		3.94 (1) / 2.99 (2)		
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.32	3.37		3.43			
			ηs (Seasonal space heating efficiency)	%	130	132		134			
			Seasonal space heating eff. class				A++				
	Average climate water outlet 35 °C	General	SCOP		4.44	4.51		4.61			
			ηs (Seasonal space heating efficiency)	%	175	178		182			
					A++		A+++				
Indoor Unit					EABX	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour					White + Black					
	Material					Resin, sheet metal					
Dimensions	Unit	Height x Width x Depth			mm	840 x 440 x 390					
Weight	Unit				kg	38					
Operation range	Heating	Water side	Min.~Max.	°C		15~60					
	Domestic hot water	Water side	Min.~Max.	°C		25~75					
Sound power level	Nom.				dBA	44					
Sound pressure level	Nom.				dBA	30					
Outdoor Unit					EPGA	11DV		14DV		16DV	
Dimensions	Unit	Height x Width x Depth			mm	1,440 x 1,160 x 380					
Weight	Unit				kg	143					
Compressor	Quantity					1					
	Type					Hermetically sealed scroll compressor					
Operation range	Cooling		Min.~Max.	°CDB		10~43					
	Domestic hot water		Min.~Max.	°CDB		-28~35					
Refrigerant	Type					R-32					
	GWP					675.0					
	Charge			kg		3.50					
	Charge			TCO ₂ Eq		2.36					
	Control					Expansion valve					
Sound power level	Heating		Nom.	dBA		64				66	
	Cooling		Nom.	dBA				68			
Sound pressure level	Heating		Nom.	dBA		48		49		52	
	Cooling		Nom.	dBA				55			
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1N~/50/230					
Current	Recommended fuses				A	32					

(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.

Options

		Type	Material name
Controllers		Remote user interface	BRC1HHDK/S/W
		LAN Adapter + PV Solar connection	BRP069A61
		LAN only	BRP069A62
		Room thermostat (wired)	EKRTWA
		Room thermostat (wireless)	EKRTR1
		External sensor	EKRTETS
		DCOM gateway	DCOM-LT/IO
		DCOM gateway	DCOM-LT/MB
Adapter		Demand PCB	EKRP1AHTA
		Digital I/O PCB	EKRP1HBAA
Installation		Bi-Zone kit (watts kit)	BZKA7V3
		Third party tank it for tank with sensor pocket	EKHY3PART
		Third party tank kit for tank with built-in thermostat	EKHY3PART2
Sensors		Remote indoor sensor	KRCS01-1
		Remote outdoor sensor	EKRSCA-1
Others		PC USB Cable	EKPCCAB4
		Conversion kit	EKHBCONV
		Universal centralized controller	EKCC8-W
		Freeze protection valve	AFVALVE1
		Heat pump convector	FWX(V/M/T)-ATV3
		Connection kit with storage tank EKHWP*	EKBH3SD



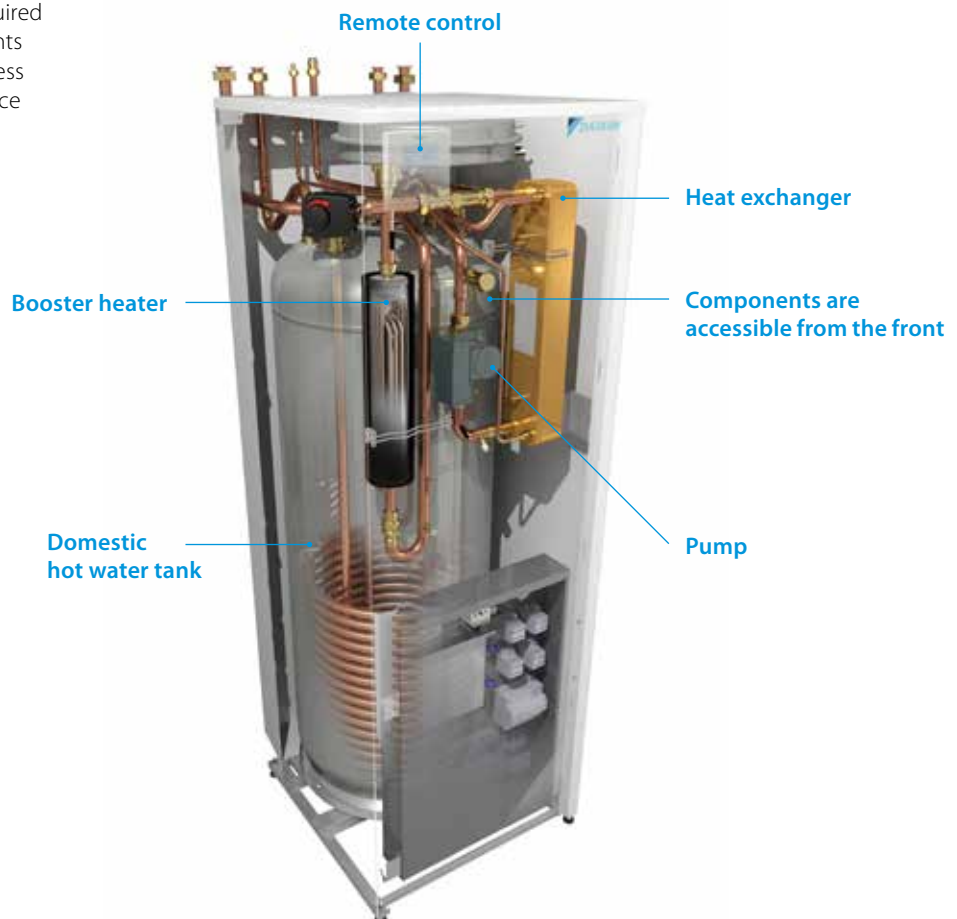
Daikin Altherma R F

low temperature split with an integrated domestic hot water tank

The Daikin Altherma floor standing unit heating delivers domestic hot water and cooling for new builds and low-energy houses.

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

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





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

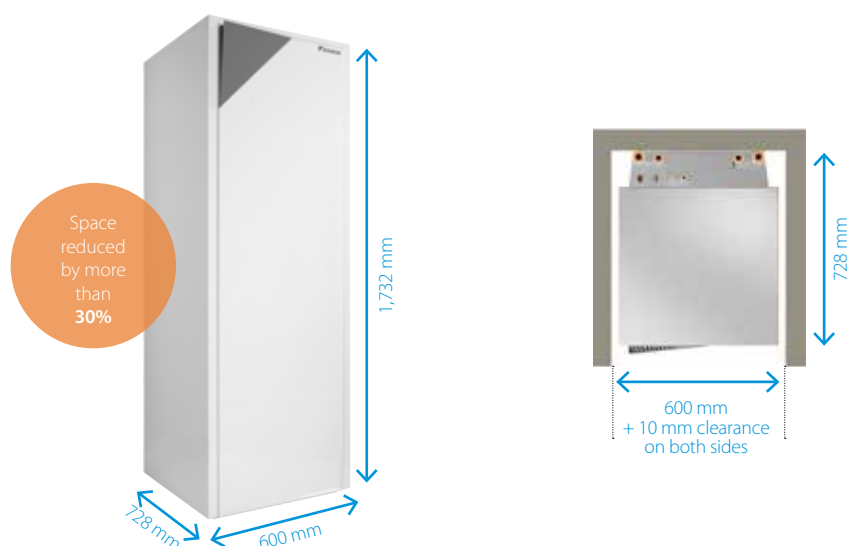
Compared to the traditional split version for a wall mounted indoor unit and separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

Smaller footprint: with a width of only 600 mm and a depth of 728 mm, the integrated indoor unit has a similar footprint when compared to other household appliances. For installation projects, almost no side clearance is necessary as the piping is located at the top of the unit. This results in an installation footprint of only 0.45 m².

Low installation height: both the 180 L and 260 L version come with a height of 173 cm. 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, easily blending in with other household appliances.

Integrated indoor unit



Daikin Altherma low temperature split integrated floor standing unit

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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78



Efficiency data				EHVH + ERLQ-C		11S18CB3V / 11S26CB9W + 011CV3		16S18CB3V / 16S26CB9W + 014CV3		16S18CB3V / 16S26CB9W + 016CV3		11S18CB3V / 11S26CB9W + 011CW1		16S18CB3V / 16S26CB9W + 014CW1		16S18CB3V / 16S26CB9W + 016CW1	
Heating capacity	Nom.				kW	11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)		11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)	
Power input	Heating	Nom.			kW	2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)		2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)	
COP						4.60 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)		4.30 (1) / 2.65 (3) / 3.32 (2) / 2.08, (4)		4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)		4.60 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)		4.30 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)		4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	
Space heating	Average climate water outlet 55 °C	General	SCOP		%	3.09		3.16		3.06		3.09		3.16		3.06	
			η _s (Seasonal space heating efficiency)		%	120		123		119		120		123		119	
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class			A+											
			SCOP		%	3.98		3.90		3.80		3.98		3.90		3.80	
Domestic hot water heating	Average climate	Declared load profile	η _{wh} (water heating efficiency)		%	156		153		149		156		153		149	
			Water heating energy efficiency class			A++											
	General	Average	η _{wh} (water heating efficiency)		%	L	XL	L	XL	L	XL	L	XL	L	XL	L	XL
			Water heating energy efficiency class			87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7

Indoor Unit				EHVH	11S18CB3V / 11S26CB9W		16S18CB3V / 16S26CB9W		16S18CB3V / 16S26CB9W		11S18CB3V / 11S26CB9W		16S18CB3V / 16S26CB9W		16S18CB3V / 16S26CB9W	
Casing	Colour				White											
	Material				Precoated sheet metal											
Dimensions	Unit	Height x Width x Depth	mm	1,732 x 600 x 728												
Weight	Unit		kg	117	126	118	128	118	128	117	126	118	128	118	128	
Tank	Water volume		L	180	260	180	260	180	260	180	260	180	260	180	260	
	Maximum water temperature		°C	65												
	Maximum water pressure		bar	10												
	Corrosion protection			Anode												
Operation range	Heating	Water side	Min.~Max.	°C	15 ~55.0											
	Domestic	Water side	Min.~Max.	°C	25~60 / 60											
	hot water															
Sound power level	Nom.		dBA	42.0				44.0				42.0			44.0	
Sound pressure level	Nom.		dBA	28.0				30.0				28.0			30.0	
Outdoor Unit				ERLQ-C	011CV3		014CV3		016CV3		011CW1		014CW1		016CW1	
Dimensions	Unit	Height x Width x Depth	mm	1,345 x 900 x 320												
Weight	Unit		kg	113												
Compressor	Quantity			1												
	Type			Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.	°CDB	10.0~46.0												
	Domestic hot water	Min.~Max.	°CDB	-20 ~35												
Refrigerant	Type			R-410A												
	GWP			2,087.5												
	Charge		kg	3.4												
	Charge		TCO ₂ Eq	7.1												
	GWP			2,087.5												
Sound power level	Heating	Nom.	dBA	64				66		64				66		
	Cooling	Nom.	dBA	64		66		69		64		66		69		
Sound pressure level	Heating	Nom.	dBA	51				52		51				52		
	Cooling	Nom.	dBA	50		52		54		50		52		54		
Power supply	Name/Phase/Frequency/Voltage			Hz/V		V3/1~/50/230				W1/3N~/50/400						
Current	Recommended fuses			A		40				20						



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

Daikin Altherma low temperature split integrated floor standing unit

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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Outdoor unit extracts heat from the outdoor air, even at -20 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Efficiency data				EHVH + ERHQ-B		11S26CB9W / 11S18CB3V + 011BV3		16S26CB9W / 16S18CB3V + 014BV3		16S26CB9W / 16S18CB3V + 016BV3		11S26CB9W / 11S18CB3V + 011BW1		16S26CB9W / 16S18CB3V + 014BW17		16S18CB3V / 16S26CB9W + 016BW1		
Heating capacity	Nom.			kW		11.2(1)/ 10.3(2)		14.0(1)/ 13.1(2)		16.0(1)/ 15.2(2)		11.3(1)/ 11.0(2)		14.5(1)/ 13.6(2)		16.1(1)/ 15.1(2)		
Power input	Heating	Nom.			kW		2.55(1)/ 3.17(2)		3.26(1)/ 4.04(2)		3.92(1)/ 4.75(2)		2.63(1)/ 3.24(2)		3.42(1)/ 4.21(2)		3.82(1)/ 4.69(2)	
COP						4.39(1)/ 3.25(2)		4.29(1)/ 3.24(2)		4.08(1)/ 3.20(2)		4.30(1)/ 3.39(2)		4.24(1)/ 3.22(2)		4.20(1)/ 3.22(2)		
 Space heating	Average climate water outlet 55 °C	General	SCOP		%		2.86		2.82		2.92		2.90		2.86		2.96	
			η _s (Seasonal space heating efficiency)		%		112		110		114		113		111		115	
	Seasonal space heating eff. class		A+															
	Average climate water outlet 35 °C	General	SCOP		%		2.99		3.23		3.29		3.08		3.34			
η _s (Seasonal space heating efficiency)			%		117		126		129		120		131		130			
Seasonal space heating eff. class		A		A+				A				A+						
 Domestic hot water heating	General	Declared load profile					XL	L	XL	L	XL	L	XL	L	XL	L	XL	
	Average climate	η _{wh} (water heating efficiency)			%		95.3	90.5	95.3	90.5	95.3	90.5	87.3	84.3	87.3	84.3	84.3	87.3
	Water heating energy efficiency class			A														
Indoor Unit				EHVH		11S26CB9W / 11S18CB3V		16S26CB9W / 16S18CB3V		16S26CB9W / 16S18CB3V		11S26CB9W / 11S18CB3V		16S26CB9W / 16S18CB3V		16S18CB3V / 16S26CB9W		
Casing	Colour			White														
	Material			Precoated sheet metal														
Dimensions	Unit	Height x Width x Depth			mm													
Weight	Unit			kg														
Tank	Water volume			L														
	Maximum water temperature			°C														
	Maximum water pressure			bar														
	Corrosion protection			Anode														
Operation range	Heating	Water side Min.~Max.			°C													
	Domestic hot water	Water side Min.~Max.			°C													
Sound power level	Nom.			dBA		42.0		44.0		42.0		44.0		44.0				
Sound pressure level	Nom.			dBA		28.0		30.0		28.0		30.0		30.0				
Outdoor Unit				ERHQ-B		011BV3		014BV3		016BV3		011BW1		014BW17		016BW1		
Dimensions	Unit	Height x Width x Depth			mm													
Weight	Unit			kg														
Compressor	Quantity			1														
	Type			Hermetically sealed scroll compressor														
Operation range	Cooling	Min.~Max.			°CDB													
	Domestic hot water	Min.~Max.			°CDB													
Refrigerant	Type			R-410A														
	GWP			2,087.5														
	Charge	kg			2.7						3.0							
	Charge	TCO ₂ Eq			5.6						6.3							
	GWP			2,087.5														
Sound power level	Heating	Nom.			dBA		64		66		64		66		66			
	Cooling	Nom.			dBA		64		66		69		64		66			
Sound pressure level	Heating	Nom.			dBA		49		51		53		51		52			
	Cooling	Nom.			dBA		50		52		54		50		52			
Power supply	Name/Phase/Frequency/Voltage			Hz/V		V3/1~/50/230						W1/3N~/50/400						
Current	Recommended fuses			A		32						20						

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

Daikin Altherma R F

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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Perfect fit for new built as well as for low energy houses
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- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



EHVH-CB

ERLQ011-016CW1



011-1W0068 → 78



Efficiency data				EHVX + ERLQ-C		11S18CB3V / 11S26CB9W + 011CV3		16S18CB3V / 16S26CB9W + 014CV3		16S18CB3V / 16S26CB9W + 016CV3		11S18CB3V / 11S26CB9W + 011CW1		16S18CB3V / 16S26CB9W + 014CW1		16S18CB3V / 16S26CB9W + 016CW1	
Heating capacity	Nom.			kW		11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)		11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)	
Cooling capacity	Nom.			kW		12.1(1) / 11.7(2)		12.7(1) / 12.6(2)		13.8(1) / 13.1(2)		12.1(1) / 11.7(2)		12.7(1) / 12.6(2)		13.8(1) / 13.1(2)	
Power input	Heating	Nom.		kW		2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)		2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)	
	Cooling	Nom.		kW		3.05(1) / 4.31(2)		3.21(1) / 5.08(2)		3.74(1) / 5.73(2)		3.05(1) / 4.31(2)		3.21(1) / 5.08(2)		3.74(1) / 5.73(2)	
COP						4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)		4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)		4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)		4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)		4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)		4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)	
EER						3.98(1) / 2.72(2)		3.96(1) / 2.47(2)		3.69(1) / 2.29(2)		3.98(1) / 2.72(2)		3.96(1) / 2.47(2)		3.69(1) / 2.29(2)	
Space heating	Average climate water outlet 55 °C	General	SCOP	η _s (Seasonal space heating efficiency)	%	3.09		3.16		3.06		3.09		3.16		3.06	
						120		123		119		120		123		119	
	Average climate water outlet 35 °C	General	SCOP	η _s (Seasonal space heating efficiency)	%	A+											
						3.98		3.90		3.80		3.98		3.90		3.80	
Domestic hot water heating	General	Declared load profile	η _{wh} (water heating efficiency)	%		L	XL	L	XL	L	XL	L	XL	L	XL	L	XL
						87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7	87.4	97.7
	Average climate	Water heating energy efficiency class				A											

Indoor Unit				EHVX	11S18CB3V		11S26CB9W		16S18CB3V		16S26CB9W					
Casing	Colour	Material			White											
	Precoated sheet metal															
Dimensions	Unit	Height x Width x Depth		mm	1,732 x 600 x 728											
Weight	Unit	kg			119		128		120		130					
Tank	Water volume			L	180		260		180		260					
	Maximum water temperature			°C	65											
	Maximum water pressure			bar	10											
	Corrosion protection				Anode											
Operation range	Heating	Water side Min.~Max.		°C	15 ~55.0											
	Cooling	Water side Min.~Max.		°C	5.00~22.0											
	Domestic hot water	Water side Min.~Max.		°C	25~60 / 60											
Sound power level	Nom.	dBA			42.0				44.0							
Sound pressure level	Nom.	dBA			28.0				30.0							
Outdoor Unit				ERLQ-C	011CV3		014CV3		016CV3		011CW1		014CW1		016CW1	
Dimensions	Unit	Height x Width x Depth		mm	1,345 x 900 x 320											
Weight	Unit	kg			113						114					
Compressor	Quantity				1											
	Type				Hermetically sealed scroll compressor											
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0											
	Domestic hot water	Min.~Max.		°CDB	-20 ~35											
Refrigerant	Type				R-410A											
	GWP				2,087.5											
	Charge	kg			3.4											
	Charge	TCO ₂ Eq			7.1											
	GWP				2,087.5											
Sound power level	Heating	Nom.		dBA	64		66		66		64		66		66	
	Cooling	Nom.		dBA	64		66		69		64		66		69	
Sound pressure level	Heating	Nom.		dBA	50		51		52		50		51		52	
	Cooling	Nom.		dBA	50		52		54		50		52		54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230						W1/3N~/50/400					
Current	Recommended fuses			A	40						20					

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



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

Daikin Altherma R F

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

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- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Efficiency data				EHVX + ERHQ-B		11S18CB3V + 011BV3	11S26CB9W + 011BV3	16S26CB9W + 014BV3	16S18CB3V + 014BV3	16S26CB9W + 016BV3	16S18CB3V + 016BV3	11S18CB3V + 011BW1	11S26CB9W + 011BW1	16S26CB9W + 014BW17	16S18CB3V + 014BW17	16S18CB3V + 016BW1	16S26CB9W + 016BW1				
Heating capacity	Nom.		kW			11.2 (1) / 10.3(2)	14.0 (1) / 13.1(2)	16.0 (1) / 15.2(2)	17.3 (1) / 12.5(2)	17.8 (1) / 13.1(2)	15.1 (1) / 11.7(2)	16.1 (1) / 12.6(2)	16.8 (1) / 13.1(2)	16.1 (1) / 15.1(2)	16.8 (1) / 13.1(2)	16.1 (1) / 15.1(2)	16.8 (1) / 13.1(2)				
Cooling capacity	Nom.		kW			2.55 (1) / 3.17(2)	3.26 (1) / 4.04(2)	3.92 (1) / 4.75(2)	2.63 (1) / 3.24(2)	3.42 (1) / 4.21(2)	3.82 (1) / 4.69(2)	4.53 (1) / 4.31(2)	5.43 (1) / 5.08(2)	6.16 (1) / 5.73(2)	6.16 (1) / 5.73(2)	6.16 (1) / 5.73(2)	6.16 (1) / 5.73(2)				
Power input	Heating	Nom.	kW			3.86 (1) / 3.69(2)	5.86 (1) / 5.69(2)	6.87 (1) / 5.95(2)	4.53 (1) / 4.31(2)	5.43 (1) / 5.08(2)	6.16 (1) / 5.73(2)	4.30 (1) / 3.39(2)	4.24 (1) / 3.22(2)	4.20 (1) / 3.22(2)	4.20 (1) / 3.22(2)	4.20 (1) / 3.22(2)	4.20 (1) / 3.22(2)				
	Cooling	Nom.	kW			4.39 (1) / 3.25(2)	4.29 (1) / 3.24(2)	4.08 (1) / 3.20(2)	3.32 (1) / 2.72(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)				
COP						3.60 (1) / 2.71(2)	2.95 (1) / 2.32(2)	2.59 (1) / 2.20(2)	3.32 (1) / 2.72(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)				
EER						2.86	2.82	2.92	2.90	2.86 / 2.80	2.96										
<div></div> Space heating	Average climate water outlet 55 °C	General	SCOP	ηs (Seasonal space heating efficiency)	%	112	110	114	113	111 / 109	115										
				Seasonal space heating eff. class																	
	Average climate water outlet 35 °C	General	SCOP	ηs (Seasonal space heating efficiency)	%	2.99	3.23	3.29	3.08	3.34	3.33										
				Seasonal space heating eff. class		117	126	129	120	131	130										
<div></div> Domestic hot water heating	General	Declared load profile				L	XL	L	XL	L	XL	L	XL	L	XL	L	XL				
	Average	ηwh (water heating efficiency)			%	90.5	95.3	90.5	95.3	90.5	84.3	87.3	87.3	84.3	87.3	84.3	87.3				
	climate	Water heating energy efficiency class				A															
Indoor Unit				EHVX		11S18CB3V	11S26CB9W	16S26CB9W	16S18CB3V	16S26CB9W	16S18CB3V	11S18CB3V	11S26CB9W	16S26CB9W	16S18CB3V	16S18CB3V	16S26CB9W				
Casing	Colour					White															
	Material					Precoated sheet metal															
Dimensions	Unit	Height x Width x Depth			mm	1,732 x 600 x 728															
Weight	Unit				kg	119	128	130	120	130	120	119	128	130	120	130	130				
Tank	Water volume				L	180	260		180	260	180		260		180		260				
	Maximum water temperature				°C	65															
	Maximum water pressure				bar	10															
	Corrosion protection					Anode															
Operation range	Heating	Water side	Min.~Max.	°C	15 ~55.0																
	Cooling	Water side	Min.~Max.	°C	5.00~22.0																
	Domestic hot water	Water side	Min.~Max.	°C	25~60 / 60																
Sound power level	Nom.				dBA	42.0		44.0				42.0		44.0							
Sound pressure level	Nom.				dBA	28.0		30.0				28.0		30.0							
Outdoor Unit				ERHQ-B		011BV3	011BV3	014BV3	014BV3	016BV3	016BV3	011BW1	011BW1	014BW1	014BW17	016BW1	016BW1				
Dimensions	Unit	Height x Width x Depth			mm	1,170 x 900 x 320															
Weight	Unit				kg	102															
Compressor	Quantity					1															
	Type					Hermetically sealed scroll compressor															
Operation range	Cooling	Min.~Max.			°CDB	10.0~46.0															
	Domestic hot water	Min.~Max.			°CDB	-20 ~35															
Refrigerant	Type					R-410A															
	GWP					2,087.5															
	Charge	kg				2.7								3.0							
	Charge	TCO ₂ Eq				5.6								6.3							
Sound power level	Heating	Nom.			dBA	64				66				64				66			
	Cooling	Nom.			dBA	64		66		69		64		66		69					
	Heating	Nom.			dBA	49		51		53		51		52							
	Cooling	Nom.			dBA	50		52		54		50		52		54					
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1~/50/230															
Current	Recommended fuses				A	32															

(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).

Daikin Altherma R F

Optimum efficiency offering full flexibility in heat emitters

- › Two different temperature zones can be automatically regulated by the same indoor unit
- › Offers flexibility to the end user to combine different heat emitters e.g. under floor heating and radiators while optimising the efficiency
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Energy efficient heating only system based on air to water heat pump technology
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78



Efficiency data				EHVZ + ERLQ-C	16S18CB3V + 011CV3	16S18CB3V + 014CV3	16S18CB3V + 016CV3	16S18CB3V + 011CW1	16S18CB3V + 014CW1	16S18CB3V + 016CW1
Heating capacity	Nom.			kW	11.2(1) / 11.0(2)	14.4(1) / 13.5(2)	15.9(1) / 15.1(2)	11.2(1) / 11.0(2)	14.4(1) / 13.5(2)	15.9(1) / 15.1(2)
Power input	Heating	Nom.		kW	2.43(1) / 3.10(2)	3.39(1) / 4.12(2)	3.77(1) / 4.67(2)	2.43(1) / 3.10(2)	3.39(1) / 4.12(2)	3.77(1) / 4.67(2)
COP					4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.24(1) / 2.61(3) / 3.28(2) / 2.05(4)	4.22(1) / 2.61(3) / 3.23(2) / 2.07(4)	4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.24(1) / 2.61(3) / 3.28(2) / 2.05(7)	4.22(1) / 2.61(3) / 3.23(2) / 2.07(4)
Space heating	Average climate water outlet 55 °C	General	SCOP	%	3.09	3.16	3.06	3.09	3.16	3.06
			η _{sp} (Seasonal space heating efficiency)	%	120	123	119	120	123	119
			Seasonal space heating eff. class		A+					
Space heating	Average climate water outlet 35 °C	General	SCOP	%	-	-	-	-	-	-
			η _{sp} (Seasonal space heating efficiency)	%	-	-	-	-	-	-
			Seasonal space heating eff. class		-					
Pump Additional Zone	Nominal ESP unit (*RLQ°C*)	Heating		kPa	26.2 (1) / 28.3 (2)	25.0	26.2 (1) / 28.3 (2)	25.0		
Pump Main Zone	Nominal ESP unit (*RLQ°C*)	Heating		kPa	18.2 (1) / 20.7 (2)	25.0	18.2 (1) / 20.7 (2)	25.0		
Domestic hot water heating	General	Declared load profile			L					
	Average climate	η _{wh} (water heating efficiency)	%		87.4					
		Water heating energy efficiency class			A					
Indoor Unit				EHVZ	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth	mm		1,732 x 600 x 728					
Weight	Unit		kg		121					
Tank	Water volume		L		180					
	Maximum water temperature		°C		65					
	Maximum water pressure		bar		10					
	Corrosion protection				Anode					
					15 ~55					
Operation range	Heating	Water side Min.~Max.	°C		25~60 / 60					
	Domestic hot water	Water side Min.~Max.	°C							
Sound power level	Nom.		dBA		44					
Sound pressure level	Nom.		dBA		30					
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320					
Weight	Unit		kg		113					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge		kg		3.4					
	Charge		TCO ₂ Eq		7.1					
Sound power level	Heating	Nom.	dBA		64	66	66	64	66	66
	Cooling	Nom.	dBA		64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dBA		50	51	52	50	51	52
	Cooling	Nom.	dBA		50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/1~/50/230					
Current	Recommended fuses		A		40					
					20					

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

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

Daikin Altherma R F

Optimum efficiency offering full flexibility in heat emitters



- › Two different temperature zones can be automatically regulated by the same indoor unit
- › Offers flexibility to the end user to combine different heat emitters e.g. under floor heating and radiators while optimising the efficiency
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Outdoor unit extracts heat from the outdoor air, even at -20 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)

A⁺

A

55 °C

R-410A

Efficiency data				EHVZ + ERHQ-B	16S18CB3V + 011BV3	16S18CB3V + 014BV3	16S18CB3V + 016BV3	16S18CB3V + 011BW1	16S18CB3V + 014BW17	16S18CB3V + 016BW1	
Heating capacity	Nom.			kW	11.2(1) / 10.3(2)	14.0(1) / 13.1(2)	16.0(1) / 15.2(2)	11.3(1) / 11.0(2)	14.5(1) / 13.6(2)	16.1(1) / 15.1(2)	
Power input	Heating	Nom.		kW	2.55(1) / 3.17(2)	3.26(1) / 4.04(2)	3.92(1) / 4.75(2)	2.63(1) / 3.24(2)	3.42(1) / 4.21(2)	3.82(1) / 4.69(2)	
COP					4.39(1) / 3.25(2)	4.29(1) / 3.24(2)	4.08(1) / 3.20(2)	4.30(1) / 3.39(2)	4.24(1) / 3.22(2)	4.20(1) / 3.22(2)	
 Space heating	Average climate	General	SCOP		2.86	2.82	2.92	2.90	2.86	2.96	
	water outlet		ηs (Seasonal space heating efficiency)	%	112	110	114	113	111	115	
	55 °C		Seasonal space heating eff. class		A+						
Pump Additional Zone	Nominal ESP unit (*RHQ*B*)	Heating		kPa	26.2 (1.000) / 35.0 (2.000)	25.0 (5.000)		24.8 (1.000) / 28.3 (2.000)	25.0 (5.000)		
Pump Main Zone	Nominal ESP unit (*RHQ*B*)	Heating		kPa	18.2 (1.000) / 28.8 (2.000)	25.0 (5.000)		16.4 (1.000) / 20.7 (2.000)	25.0 (5.000)		
 Domestic hot water heating	General	Declared load profile			L						
	Average climate	ηwh (water heating efficiency)		%	90.5			84.3			
		Water heating energy efficiency class			A						
Indoor Unit				EHVZ	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	
Casing	Colour				White						
	Material				Precoated sheet metal						
Dimensions	Unit	Height x Width x Depth		mm	1,732 x 600 x 728						
Weight	Unit				121						
Tank	Water volume				180						
	Maximum water temperature				65						
	Maximum water pressure				10						
	Corrosion protection				Anode						
	Operation range	Heating	Water side Min.~Max.		°C	15 ~55					
		Domestic hot water	Water side Min.~Max.		°C	25~60 / 60					
Sound power level	Nom.				dBA	44					
Sound pressure level	Nom.				dBA	30					
Outdoor Unit				ERHQ-B	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1	
Dimensions	Unit	Height x Width x Depth		mm	1,170 x 900 x 320			1,345 x 900 x 320			
Weight	Unit				102			108			
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0						
	Domestic hot water	Min.~Max.		°CDB	-20 ~35						
Refrigerant	Type				R-410A						
	GWP				2,087.5						
	Charge				2.7			3.0			
	Charge				5.6			6.3			
Sound power level	Heating	Nom.		dBA	64		66	64		66	
	Cooling	Nom.		dBA	64	66	69	64	66	69	
Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52	
	Cooling	Nom.		dBA	50	52	54	50	52	54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400			
Current	Recommended fuses			A	32			20			

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



Daikin Altherma R F

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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Energy efficient heating only system without back-up heater
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 →78

Efficiency data				EHVH + ERLQ-C	11S26CBV + 011CV3	16S26CBV + 014CV3	16S26CBV + 016CV3	11S26CBV + 011CW1	16S26CBV + 014CW1	16S26CBV + 016CW1
Heating capacity	Nom.			kW	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)
Power input	Heating	Nom.		kW	2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	2.43 (1) / 3.10 (2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)
COP					4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)	4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)	4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)	4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)
 Space heating	Average climate water outlet 55 °C	General	SCOP	ηs (Seasonal space heating efficiency) %	3.09	3.16	3.06	3.09	3.16	3.06
				Seasonal space heating eff. class	120	123	119	120	123	119
	Average climate water outlet 35 °C	General	SCOP	ηs (Seasonal space heating efficiency) %	3.98	3.90	3.80	3.98	3.90	3.80
				Seasonal space heating eff. class	156	153	149	156	153	149
 Domestic hot water heating	General	Declared load profile			A++		A+	A++		A+
	Average climate	ηwh (water heating efficiency) %					97.7			97.7
		Water heating energy efficiency class					A			
Indoor Unit				EHVH	11S26CBV	16S26CBV	16S26CBV	11S26CBV	16S26CBV	16S26CBV
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth		mm	1,732 x 600x 728					
Weight	Unit			kg	124	126		124	126	
Tank	Water volume			L	260					
	Maximum water temperature			°C	65					
	Maximum water pressure			bar	10					
	Corrosion protection				Anode					
Operation range	Heating	Water side Min.~Max.		°C	10 ~55.0					
	Domestic hot water	Water side Min.~Max.		°C	25~70					
Sound power level	Nom.			dBA	42.0	44.0		42.0	44.0	
Sound pressure level	Nom.			dBA	28.0	30.0		28.0	30.0	
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth		mm	1,345 x 900 x 320					
Weight	Unit			kg	113					
Compressor	Quantity				1					
Operation range	Type				Hermetically sealed scroll compressor					
	Cooling	Min.~Max.		°CDB	10.0~46.0					
Refrigerant	Domestic hot water	Min.~Max.		°CDB	-20 ~35					
	Type				R-410A					
	GWP				2,087.5					
	Charge			kg	3.4					
Sound power level	Heating	Nom.		dBA	64	66	66	64	66	66
	Cooling	Nom.		dBA	64	66	69	64	66	69
Sound pressure level	Heating	Nom.		dBA	51	51	52	51	51	52
	Cooling	Nom.		dBA	50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	40			20		



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

Daikin Altherma R F

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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Energy efficient heating only system without back-up heater
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Efficiency data				EHVH + ERHQ-B	11S26CBV + 011BV3	16S26CBV + 014BV3	16S26CBV + 016BV3	11S26CBV + 011BW1	16S26CBV + 014BW17	16S26CBV + 016BW1	
Heating capacity	Nom.			kW	11.2 (1) / 10.3(2)	14.0 (1) / 13.1(2)	16.0 (1) / 15.2(2)	11.3 (1) / 11.0(2)	14.5 (1) / 13.6(2)	16.1 (1) / 15.1(2)	
Power input	Heating	Nom.		kW	2.55 (1) / 3.17(2)	3.26 (1) / 4.04(2)	3.92 (1) / 4.75(2)	2.63 (1) / 3.24(2)	3.42 (1) / 4.21(2)	3.82 (1) / 4.69(2)	
COP					4.39 (1) / 3.25(2)	4.29 (1) / 3.24(2)	4.08 (1) / 3.20(2)	4.30 (1) / 3.39(2)	4.24 (1) / 3.22(2)	4.20 (1) / 3.22(2)	
 Space heating	Average climate water outlet 55 °C	General	SCOP		2.86	2.82	2.92	2.90	2.86	2.96	
			ηs (Seasonal space heating efficiency)	%	112	110	114	113	111	115	
			Seasonal space heating eff. class	A+							
	Average climate water outlet 35 °C	General	SCOP		2.99	3.23	3.29	3.08	3.34	3.33	
			ηs (Seasonal space heating efficiency)	%	117	126	129	120	131	130	
			Seasonal space heating eff. class	A	A+		A	A+			
 Domestic hot water heating	General	Declared load profile		XL							
	Average climate	ηwh (water heating efficiency)		%	95.3			87.3			
					A						
Indoor Unit				EHVH	11S26CBV	16S26CBV	16S26CBV	11S26CBV	16S26CBV	16S26CBV	
Casing	Colour				White						
	Material				Precoated sheet metal						
Dimensions	Unit	Height x Width x Depth		mm	1,732 x 600 x 728						
Weight	Unit				kg	124	126		124	126	
Tank	Water volume				L	260					
	Maximum water temperature				°C	65					
	Maximum water pressure				bar	10					
	Corrosion protection					Anode					
Operation range	Heating	Water side Min.~Max.		°C	10 ~55.0						
	Domestic hot water	Water side Min.~Max.		°C	25~70						
Sound power level	Nom.				dBA	42.0	44.0		42.0	44.0	
Sound pressure level	Nom.				dBA	28.0	30.0		28.0	30.0	
Outdoor Unit				ERHQ-B	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1	
Dimensions	Unit	Height x Width x Depth		mm	1,170 x 900 x 320			1,345 x 900 x 320			
Weight	Unit				kg	102			108		
Compressor	Quantity					1					
Operation range	Type				Hermetically sealed scroll compressor						
	Cooling	Min.~Max.		°CDB	10.0~46.0						
Refrigerant	Domestic hot water	Min.~Max.		°CDB	-20 ~35						
	Type				R-410A						
	GWP				2,087.5						
	Charge				kg	2.7		3.0			
Sound power level	Charge				TCO2Eq	5.6		6.3			
	Heating	Nom.		dBA	64		66	64		66	
	Cooling	Nom.		dBA	64	66	69	64	66	69	
	Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52
Power supply	Heating	Nom.		dBA	50	52	54	50	52	54	
	Cooling	Nom.		dBA	50	52	54	50	52	54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400			
Current	Recommended fuses			A	32			20			

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

(3) Contains fluorinated greenhouse gases.



Daikin Altherma R F

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

- › Integrated indoor unit: pre-plumbed and pre-wired indoor unit for a simpler, hassle free and neater heating and hot water installation
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78

Efficiency data				EHVH + ERLQ-C	11SU26CB6W + 011CV3	16SU26CB6W + 014CV3	16SU26CB6W + 016CV3	11SU26CB6W + 011CW1	16SU26CB6W + 014CW1	16SU26CB6W + 016CW1
Heating capacity	Nom.			kW	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)
Power input	Heating	Nom.		kW	2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	2.43 (1) / 3.10 (2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)
COP					4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)	4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)	4.60(1) / 2.75(3) / 3.55(2) / 2.10(4)	4.30(1) / 2.65(3) / 3.32(2) / 2.08(4)	4.25(1) / 2.64(3) / 3.26(2) / 2.09(4)
 Space heating	Average climate water outlet 55 °C	General	SCOP	%	3.09	3.16	3.06	3.09	3.16	3.06
			ηs (Seasonal space heating efficiency)	%	120	123	119	120	123	119
	Average climate water outlet 35 °C	General	SCOP	%	3.98	3.90	3.80	3.98	3.90	3.80
			ηs (Seasonal space heating efficiency)	%	156	153	149	156	153	149
			Seasonal space heating eff. class		A++		A+	A++		A+
 Domestic hot water heating	General	Declared load profile			XL					
	Average	ηwh (water heating efficiency)	%		97.7					
		Water heating energy efficiency class			A					
Indoor Unit				EHVH	11SU26CB6W	16SU26CB6W	16SU26CB6W	11SU26CB6W	16SU26CB6W	16SU26CB6W
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth	mm		1,732 x 600 x 728					
Weight	Unit		kg		128	130		128	130	
Tank	Water volume		L		260					
	Maximum water temperature		°C		65					
	Maximum water pressure		bar		10					
	Corrosion protection				Anode					
Operation range	Heating	Water side Min.~Max.	°C		15 ~55.0					
	Domestic hot water	Water side Min.~Max.	°C		25~65					
Sound power level	Nom.		dBA		42.0	44.0		42.0	44.0	
Sound pressure level	Nom.		dBA		28.0	30.0		28.0	30.0	
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320					
Weight	Unit		kg		113					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge		kg		3.4					
	Charge		TCO ₂ Eq		7.1					
	GWP				2,087.5					
Sound power level	Heating	Nom.	dBA		64	66	66	64	66	66
	Cooling	Nom.	dBA		64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dBA		51	52	52	51	52	52
	Cooling	Nom.	dBA		50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	40			20		

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



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

Daikin Altherma R F

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

- › Integrated indoor unit: pre-plumbed and pre-wired indoor unit for a simpler, hassle free and neater heating and hot water installation
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)









Efficiency data				EHVH + ERHQ-B	11SU26CB6W + 011BV3	16SU26CB6W + 014BV3	16SU26CB6W + 016BV3	11SU26CB6W + 011BW1	16SU26CB6W + 014BW17	16SU26CB6W + 016BW1	
Heating capacity	Nom.			kW	11.2(1) / 10.3(2)	14.0(1) / 13.1(2)	16.0(1) / 15.2(2)	11.3(1) / 11.0(2)	14.5(1) / 13.6(2)	16.1(1) / 15.1(2)	
Power input	Heating	Nom.		kW	2.55(1) / 3.17(2)	3.26(1) / 4.04(2)	3.92(1) / 4.75(2)	2.63(1) / 3.24(2)	3.42(1) / 4.21(2)	3.82(1) / 4.69(2)	
COP					4.39(1) / 3.25(2)	4.29(1) / 3.24(2)	4.08(1) / 3.20(2)	4.30(1) / 3.39(2)	4.24(1) / 3.22(2)	4.20(1) / 3.22(2)	
 Space heating	Average climate water outlet 55 °C	General	SCOP		2.86	2.82	2.92	2.90	2.86	2.96	
			ηs (Seasonal space heating efficiency)	%	112	110	114	113	111	115	
			Seasonal space heating eff. class	A+							
	Average climate water outlet 35 °C	General	SCOP		2.99	3.23	3.29	3.08	3.34	3.33	
			ηs (Seasonal space heating efficiency)	%	117	126	129	120	131	130	
			Seasonal space heating eff. class	A		A+		A		A+	
 Domestic hot water heating	General	Declared load profile			XL						
	Average climate	ηwh (water heating efficiency)	%		95.3			87.3			
		Water heating energy efficiency class			A						
Indoor Unit				EHVH	11SU26CB6W	16SU26CB6W	16SU26CB6W	11SU26CB6W	16SU26CB6W	16SU26CB6W	
Casing	Colour			White							
	Material			Precoated sheet metal							
Dimensions	Unit	Height x Width x Depth		mm	1,732 x 600 x 728						
Weight	Unit			kg	128	130		128	130		
Tank	Water volume			L	260						
	Maximum water temperature			°C	65						
	Maximum water pressure			bar	10						
	Corrosion protection				Anode						
Operation range	Heating	Water side Min.~Max.		°C	15 ~55.0						
	Domestic hot water	Water side Min.~Max.		°C	25~65						
Sound power level	Nom.			dBA	42.0	44.0		42.0	44.0		
Sound pressure level	Nom.			dBA	28.0	30.0		28.0	30.0		
Outdoor Unit				ERHQ-B	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1	
Dimensions	Unit	Height x Width x Depth		mm	1,170 x 900 x 320			1,345 x 900 x 320			
Weight	Unit			kg	102			108			
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0						
	Domestic hot water	Min.~Max.		°CDB	-20 ~35						
Refrigerant	Type				R-410A						
	GWP				2,087.5						
	Charge			kg	2.7			3.0			
	Charge			TCO2Eq	5.6			6.3			
Sound power level	Heating	Nom.		dBA	64		66	64		66	
	Cooling	Nom.		dBA	64	66	69	64	66	69	
Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52	
	Cooling	Nom.		dBA	50	52	54	50	52	54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400			
Current	Recommended fuses			A	32			20			

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

(3) Contains fluorinated greenhouse gases.

Options

		Type	Material name	Daikin Altherma R F / W 11-16kW
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	•
		Centralised controller kit	EKCC-W	•
Adapter		Demand PCB	EKRP1AHTA	•
		Digital I/O PCB	EKRP1HBAA	•
Back-up heater		Back-up heater kit	EKLBUHCB6W1	•
		Booster heater for tank integrated design	EKBSHCA3V3	•
		Bottom plate heater	EKBPTH16A	•
Drain		Drain kit	EKDK04	•
		Drain pan for indoor wall munted	EKHBDPCA2	•
Filter		Magnetic filter without additives	K.FERNOXTF1	•
		Magnetic filter with additive (500 ml inhibitor fluid F1)	K.FERNOXTF1FL	•
Installation		Bi-Zone kit	BZKA7V3	•
		Snowcover	EK016SNCA	•
		UK tank kit	EKVSU260A	•
Sensor		Remote indoor sensor	KRCS01-1B	•
		External sensor	EKRTETS	•
Others		PC cable	EKPCCAB4	•



Daikin Altherma R ECH₂O

low temperature split integrated ECH₂O

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

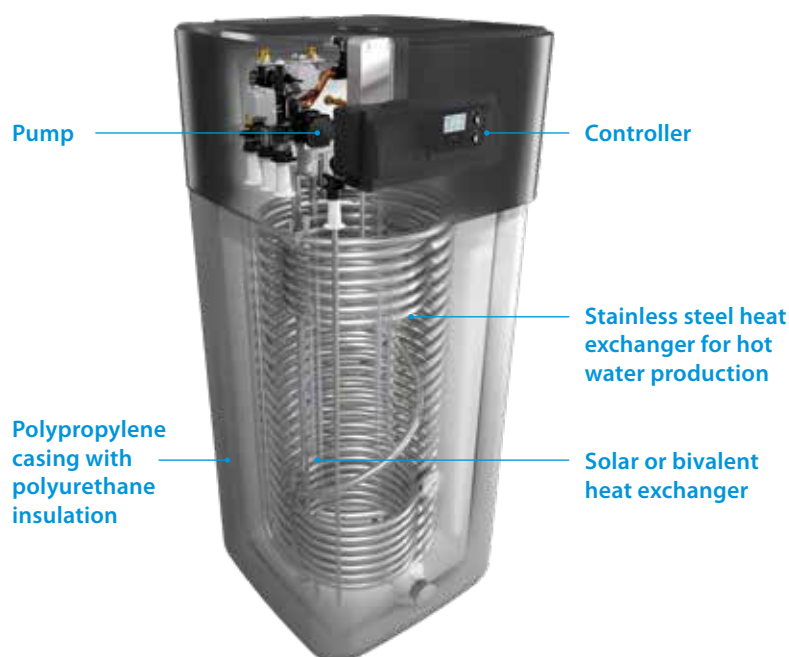
Innovative and high-quality tank

- › 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



R-410A



Heat pumps

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

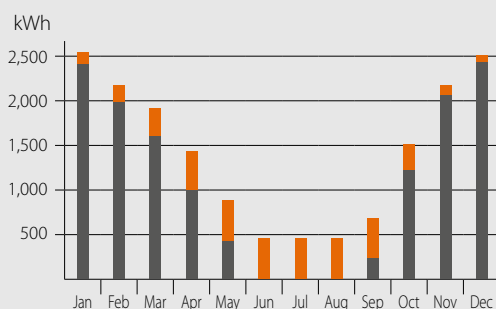
Pressureless (drain-back) solar system (EHSB-B, EHSX-B)

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

Pressurised solar system (EHSB-B, EHSX-B)

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

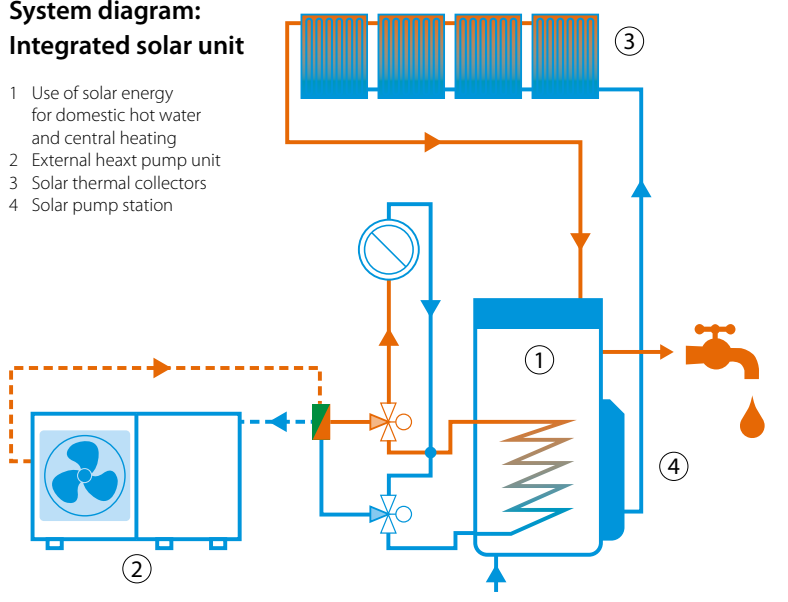
Monthly energy consumption of an average detached house



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

System diagram: Integrated solar unit

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



Daikin Altherma R ECH₂O

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

- 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
- Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- Heat loss is reduced to a minimum thanks to the high quality insulation
- Possible to connect to photovoltaic solar panels to provide energy for your heat pump



011-1W0087 → 95


A++

A
55 °C
R-410A

Efficiency data					EHSB + ERLQ-C	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.				kW	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04(1) / 10.05(2) / 15.34(3) / 14.86(4)
Power input	Heating	Nom.			kW	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)		2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	
COP						4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)
Space heating	Average climate water outlet 55 °C	General	η _{sp} (Seasonal space heating efficiency)	%		125	126	125		126	125
			Seasonal space heating eff. class					A++			
Domestic hot water heating	General	Declared load profile						XL			
	Average climate	η _{wh} (water heating efficiency)	%					83			
		Water heating energy efficiency class						A			

Indoor Unit					EHSB	16P50B
Casing	Colour					Traffic white (RAL9016) / Dark grey (RAL7011)
	Material					Impact resistant polypropylene
Dimensions	Unit	Height x Width x Depth	mm			1,945 / 1,890 x 790 x 790
Weight	Unit		kg			113
Tank	Water volume		L			477
	Maximum water temperature		°C			85
Operation range	Heating	Ambient	Min.~Max.	°C		-25~-35
		Water side	Min.~Max.	°C		15 ~55
	Domestic hot water	Ambient	Min.~Max.	°CDB		-25~-35
		Water side	Min.~Max.	°C		25~55
Sound power level	Nom.			dBA		40
Sound pressure level	Nom.			dBA		28

Outdoor Unit					ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm					1,345 x 900 x 320			
Weight	Unit		kg				113			114	
Compressor	Quantity							1			
	Type							Hermetically sealed scroll compressor			
Operation range	Cooling	Min.~Max.	°CDB					10.0~46.0			
	Domestic hot water	Min.~Max.	°CDB					-20 ~35			
Refrigerant	Type							R-410A			
	GWP							2,087.5			
	Charge		kg					3.4			
	Charge		TCO ₂ Eq					7.1			
	Control							Expansion valve (electronic type)			
Sound power level	Heating	Nom.	dBA			64		66		64	66
	Cooling	Nom.	dBA			64	66	69		64	66
Sound pressure level	Heating	Nom.	dBA				51	52		51	52
	Cooling	Nom.	dBA			50	52	54		50	52
Power supply	Name/Phase/Frequency/Voltage	Hz/V					V3/1~/50/230			W1/3N~/50/400	
Current	Recommended fuses	A					40			20	

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

(3) EW 30 °C; LW 35 °C; ambient conditions: -7 °CDB/-8 °CWB (4) EW 30 °C; LW 35 °C; ambient conditions: 2 °CDB/1 °CWB (5) Contains fluorinated greenhouse gases.

Daikin Altherma 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
- › Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › App control possible for managing heating and hot water operation



011-1W0068 → 78



A++



A

55 °C

R-410A

Heat pumps

Efficiency data					EHSB + ERLQ-C	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.				kW	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04 / 10.05 / 15.34 / 14.86
Power input	Heating	Nom.			kW	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)		2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	3.42 / 4.07 / 3.17 / 2.93
COP						4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10 / 3.22 / 2.44 / 3.15
Space heating	Average climate water outlet 55 °C	General	η _s (Seasonal space heating efficiency)	%		125	126	125		126	125
			Seasonal space heating eff. class					A++			
Domestic hot water heating	General	Declared load profile						XL			
	Average climate	η _{wh} (water heating efficiency)	%					84			
		Water heating energy efficiency class						A			

Indoor Unit				EHSB	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour								
	Material								
Dimensions	Unit	Height x Width x Depth	mm						
Weight	Unit		kg						
Tank	Water volume		L						
	Maximum water temperature		°C						
Operation range	Heating	Ambient	Min.~Max.	°C					
		Water side	Min.~Max.	°C					
	Domestic hot water	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
Sound power level	Nom.			dBA					
Sound pressure level	Nom.			dBA					

Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm							
Weight	Unit		kg							
Compressor	Quantity									
	Type									
Operation range	Cooling	Min.~Max.	°CDB							
	Domestic hot water	Min.~Max.	°CDB							
Refrigerant	Type									
	GWP									
	Charge		kg							
	Charge		TCO ₂ Eq							
	Control									
Sound power level	Heating	Nom.	dBA							
	Cooling	Nom.	dBA							
Sound pressure level	Heating	Nom.	dBA							
	Cooling	Nom.	dBA							
Power supply	Name/Phase/Frequency/Voltage		Hz/V							
Current	Recommended fuses		A							

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

Daikin Altherma 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
- › Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- › 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



011-1W0096 → 104



A++



A

55 °C

R-410A

Efficiency data				EHSX + ERLQ-C	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.			kW	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04 / 10.05 / 15.34 / 14.86
Cooling capacity	Nom.			kW	10.60 (1) / 11.7 (2)					
Power input	Heating	Nom.		kW	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	3.42 / 4.07 / 3.17 / 2.93	
	Cooling	Nom.		kW	2.72 (1) / 4.30 (2)					
COP					4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10 / 3.22 / 2.44 / 3.15
EER					3.90 (1) / 2.72 (2)					
Space heating	Average climate water outlet 55 °C	General	ns (Seasonal space heating efficiency) Seasonal space heating eff. class	%	128	130	127	128	130	127
Domestic hot water heating	General Average climate	Declared load profile	gwh (water heating efficiency) Water heating energy efficiency class	%	A++					
					XL					
					83					
					A					
Indoor Unit				EHSX	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	Height x Width x Depth	mm		1,890 x 790 x 790	1,945 / 1,890 x 790 x 790	1,890 x 790 x 790	1,945 / 1,890 x 790 x 790	1,945 / 1,890 x 790 x 790	
Weight	Unit		kg		116	113	116	113	113	
Tank	Water volume		L		477					
	Maximum water temperature		°C		85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~35					
		Water side	Min.~Max.	°C	15 ~55					
	Cooling	Ambient	Min.~Max.	°CDB	10~43	---	10~43	---	---	
		Water side	Min.~Max.	°C	---					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	40					
Sound pressure level	Nom.			dBA	28					
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320					
Weight	Unit		kg		113					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge		kg		3.4					
	Charge		TCO ₂ Eq		7.1					
Sound power level	Control				Expansion valve (electronic type)					
	Heating	Nom.	dBA		64	66	66	64	66	66
	Cooling	Nom.	dBA		64	66	69	64	66	69
	Heating	Nom.	dBA		50	51	52	50	51	52
Sound pressure level	Cooling	Nom.	dBA		50	52	54	50	52	54
	Power supply	Name/Phase/Frequency/Voltage	Hz/V		V3/1~/50/230					
Current	Recommended fuses		A		40					

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

(3) EW 30 °C; LW 35 °C; ambient conditions: -7 °CDB/-8 °CWB (4) EW 30 °C; LW 35 °C; ambient conditions: 2 °CDB/1 °CWB (5) Contains fluorinated greenhouse gases.

Daikin Altherma R ECH₂O

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

› Bivalent system: combinable with a secondary heat source

Options



011-1W0096 → 104

	Type	Material name
Controllers	Room thermostat RoCon U1	EHS157034
	Gateway RoCon G1 for apps	EHS157056
	Connection kit for MK1	VMK1
Back-up heater	Back-up heater 1kW	EKBU1C
	Back-up heater 3kW	EKBU3C
	Back-up heater 9kW	EKBU9C
	Heat insulation for hydraulic separator (HWC)	WHWC
Installation	Separator for dirt	SAS1
	Separator - hydraulic	HWC
	External sensor	EKRTETS
Sensor	Outdoor sensor for RoCon Controller	RoCon OT1
Others	Mixer module RoCon M1	EHS157068



A++



A

55 °C

R-410A

Efficiency data				EHSXB + ERLQ-C	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.			kW	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04 / 10.05 / 15.34 / 14.86
Cooling capacity	Nom.			kW	10.60 (1) / 11.7 (2)					
Power input	Heating	Nom.		kW	2.57 / 3.13 / 2.43 / 2.35	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	3.42 / 4.07 / 3.17 / 2.93	
	Cooling	Nom.		kW	2.72 (1) / 4.30 (2)					
COP					4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10 / 3.22 / 2.44 / 3.15
EER					3.90 (1) / 2.72 (2)					
Space heating	Average climate water outlet 55 °C	General	η _s (Seasonal space heating efficiency)	%	128	130	127	128	130	127
Domestic hot water heating			Seasonal space heating eff. class		A++					
		General	Declared load profile		XL					
	Average climate		η _{wh} (water heating efficiency)	%	84					
			Water heating energy efficiency class		A					

Indoor Unit				EHSXB	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	Height x Width x Depth	mm		1,890 x 790 x 790					
Weight	Unit		kg		118					
Tank	Water volume		L		477					
	Maximum water temperature		°C		85					
Operation range	Heating	Ambient	Min.~Max.	°C	-25~35					
		Water side	Min.~Max.	°C	15 ~55					
	Cooling	Ambient	Min.~Max.	°CDB	10~43					
		Water side	Min.~Max.	°C	~~~					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Sound power level	Nom.			dBA	40					
Sound pressure level	Nom.			dBA	28					

Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320					
Weight	Unit		kg		113					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge		kg		3.4					
	Charge		TCO ₂ Eq		7.1					
	Control				Expansion valve (electronic type)					
Sound power level	Heating	Nom.	dBA		64		66	64		66
	Cooling	Nom.	dBA		64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dBA			51	52		51	52
	Cooling	Nom.	dBA		50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage		Hz/V		V3/1~/50/230				W1/3N~/50/400	
Current	Recommended fuses		A		40				20	

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

(3) EW 30 °C; LW 35 °C; ambient conditions: -7 °CDB/-8 °CWB (4) EW 30 °C; LW 35 °C; ambient conditions: 2 °CDB/1 °CWB (5) Contains fluorinated greenhouse gases.

R-410A

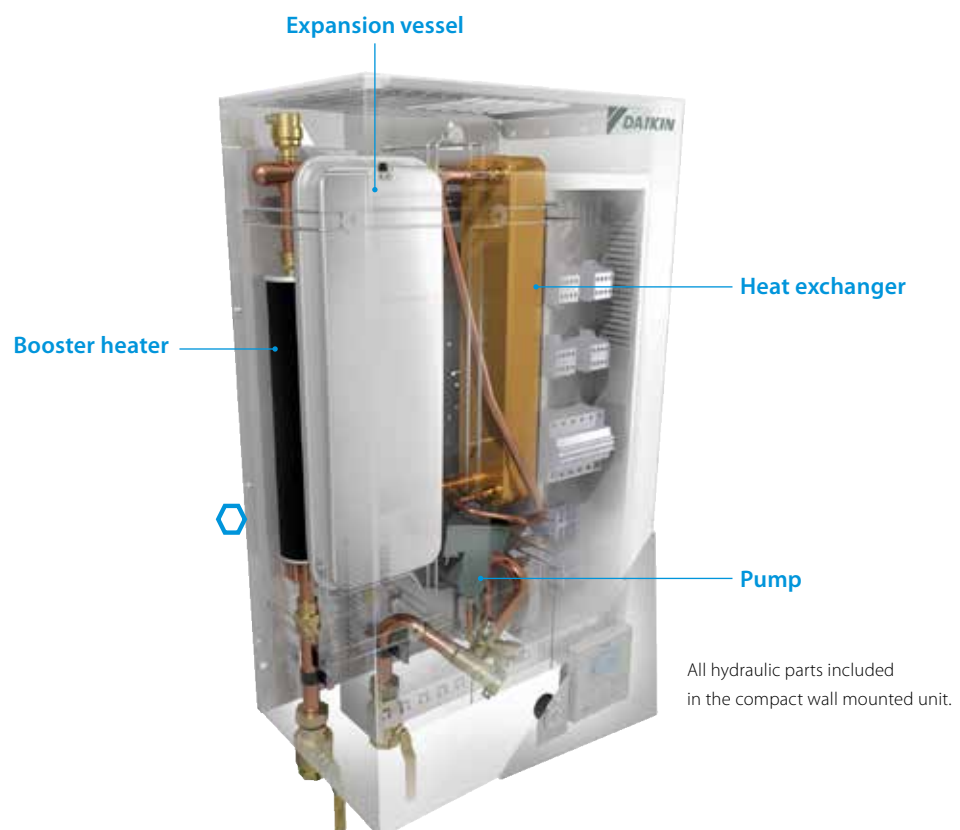
Daikin Altherma R W

low temperature split wall mounted unit

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

High flexibility for installation and domestic hot water connection

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





Stainless steel and enameled tanks

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

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: the low temperature evolution enables high tapping performance
- › Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- › Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

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



Stainless steel tank



Wall mounted unit combined with ECH₂O thermal store


Daikin Altherma R W

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

- › Wall mounted indoor unit
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78

Efficiency data				EBBH + ERLQ-C	11CB3V/B9W + 011CV3	16CB3V/9W + 014CV3	16CB3V/9W + 016CV3	11CB3V/9W + 011CW1	16CB3V/9W + 014CW1	16CB3V/9W + 016CW1						
Heating capacity	Nom.			kW	11.2 (1) / 11.0(2)	14.5 (1) / 13.6(2)	16.0 (1) / 15.2(2)	11.2 (1) / 11.0(2)	14.5 (1) / 13.6(2)	16.0 (1) / 15.2(2)						
Power input	Heating	Nom.		kW	2.43 (1) / 3.10(2)	3.37 (1) / 4.10(2)	3.76 (1) / 4.66(2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10(2)	3.76 (1) / 4.66(2)						
COP					4.60 (1) / 2.75(2) / 3.55 (3) / 2.10(4)	4.30 (1) / 2.65(2) / 3.32 (3) / 2.08(4)	4.25 (1) / 2.64(2) / 3.26 (3) / 2.09(4)	4.60 (1) / 2.75(2) / 3.55 (3) / 2.10(4)	4.30 (1) / 2.65(2) / 3.32 (3) / 2.08(4)	4.25 (1) / 2.64(2) / 3.26 (3) / 2.09(4)						
 Space heating	Average climate water outlet 55 °C	General	SCOP		3.09	3.16	3.06	3.09	3.16	3.06						
			ηs (Seasonal space heating efficiency)	%	120	123	119	120	123	119						
	Average climate water outlet 35 °C		Seasonal space heating eff. class	A+												
		General	SCOP		3.98	3.90	3.80	3.98	3.90	3.80						
			ηs (Seasonal space heating efficiency)	%	156	153	149	156	153	149						
		Seasonal space heating eff. class	A++		A+		A++		A+							
Indoor Unit				EBBH	11CB3V/9W		16CB3V/9W	16CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W					
Casing	Colour				White											
	Material				Precoated sheet metal											
Dimensions	Unit	Height x Width x Depth	mm		890 x 480 x 344											
Weight	Unit		kg		43.0	44.0	45.0	44.0	45.0	44.0	45.0					
Operation range	Heating	Water side Min.~Max.	°C		15 ~55.0											
	Domestic hot water	Water side Min.~Max.	°C		25~80											
Sound power level	Nom.		dBA		41.0	44.0		41.0	44.0							
Sound pressure level	Nom.		dBA		27.0	30.0		27.0	30.0							
Outdoor Unit				ERLQ-C	011CV3	011CV3	014CV3	014CV3	016CV3	016CV3	011CW1	011CW1	014CW1	014CW1	016CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320											
Weight	Unit		kg		113						114					
Compressor	Quantity				1											
	Type				Hermetically sealed scroll compressor											
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0											
	Domestic hot water	Min.~Max.	°CDB		-20 ~35											
Refrigerant	Type				R-410A											
	GWP				2,087.5											
	Charge		kg		3.4											
	Charge		TCO ₂ Eq		7.1											
	GWP				2,087.5											
Sound power level	Heating	Nom.	dBA		64			66			64			66		
	Cooling	Nom.	dBA		64			66			64			66		
Sound pressure level	Heating	Nom.	dBA		51			52			51			52		
	Cooling	Nom.	dBA		50			52			50			52		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230						W1/3N~/50/400					
Current	Recommended fuses			A	40						20					

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


Daikin Altherma R W

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

- › Wall mounted indoor unit
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -20 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Heat pumps

Efficiency data				EHBH + ERHQ-B		11CB3V + 011BV3	11CB9W + 011BV3	16CB3V + 014BV3	16CB9W + 014BV3	16CB3V + 016BV3	16CB9W + 016BV3	11CB3V + 011BW1	11CB9W + 011BW1	16CB3V + 014BW17	16CB9W + 014BW17	16CB3V + 016BW1	16CB9W + 016BW1	
Heating capacity	Nom.			kW	11.2 (1) / 10.3(2)		14.0 (1) / 13.1(2)		16.0 (1) / 15.2(2)		11.3 (1) / 11.0(2)		14.5 (1) / 13.6(2)		16.1 (1) / 15.1(2)			
Power input	Heating	Nom.		kW	2.55 (1) / 3.17(2)		3.26 (1) / 4.04(2)		3.92 (1) / 4.75(2)		2.63 (1) / 3.24(2)		3.42 (1) / 4.21(2)		3.82 (1) / 4.69(2)			
COP					4.39 (1) / 3.25(2)		4.29 (1) / 3.24(2)		4.08 (1) / 3.20(2)		4.30 (1) / 3.39(2)		4.24 (1) / 3.22(2)		4.20 (1) / 3.22(2)			
Space heating	 Average climate water outlet 55 °C	General	SCOP		2.86		2.82		2.92		2.90		2.86		2.96			
			ηs (Seasonal space heating efficiency)	%	112		110		114		113		111		115			
			Seasonal space heating eff. class		A+													
	Average climate water outlet 35 °C	General	SCOP		2.99		3.23		3.29		3.08		3.34		3.33			
			ηs (Seasonal space heating efficiency)	%	117		126		129		120		131		130			
			Seasonal space heating eff. class		A		A+		A+		A		A+		A+			
Indoor Unit					EHBH		11CB3V	11CB9W	16CB3V	16CB9W	16CB3V	16CB9W	11CB3V	11CB9W	16CB3V	16CB9W	16CB3V	16CB9W
Casing	Colour			White														
	Material			Precoated sheet metal														
Dimensions	Unit	Height x Width x Depth		mm	890 x 480 x 344													
Weight	Unit			kg	43.0	44.0	45.0	44.0	45.0	43.0	44.0	45.0	44.0	45.0	44.0	45.0		
Operation range	Heating	Water side Min.~Max.		°C	15 ~55.0													
	Domestic hot water	Water side Min.~Max.		°C	25~80													
Sound power level	Nom.			dBA	41.0		44.0		41.0		44.0		41.0		44.0			
Sound pressure level	Nom.			dBA	27.0		30.0		27.0		30.0		27.0		30.0			
Outdoor Unit					ERHQ-B		011BV3	014BV3	016BV3	011BW1	014BW17	016BW1						
Dimensions	Unit	Height x Width x Depth		mm	1,170 x 900 x 320						1,345 x 900 x 320							
Weight	Unit			kg	102						108							
Compressor	Quantity			1														
	Type			Hermetically sealed scroll compressor														
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0													
	Domestic hot water	Min.~Max.		°CDB	-20 ~35													
Refrigerant	Type				R-410A													
	GWP				2,087.5													
	Charge			kg	2.7						3.0							
	Charge			TCO ₂ Eq	5.6						6.3							
	GWP				2,087.5													
Sound power level	Heating	Nom.	dBA	64		66		64		64		66		64		66		
	Cooling	Nom.	dBA	64		66		69		64		66		69		64		
Sound pressure level	Heating	Nom.	dBA	49		51		53		50		52		54		50		
	Cooling	Nom.	dBA	50		52		54		50		52		54		50		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230						W1/3N~/50/400							
Current	Recommended fuses			A	32						20							

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


Daikin Altherma R W

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

- › Wall mounted indoor unit
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78

Efficiency data				EHBX + ERLQ-C		11CB3V / 11CB9W + 011CV3		16CB3V / 16CB9W + 014CV3		16CB3V / 16CB9W + 016CV3		11CB3V / 11CB9W + 011CW1		16CB3V / 16CB9W + 014CW1		16CB3V / 16CB9W + 016CW1	
Heating capacity	Nom.			kW		11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)		11.2(1) / 11.0(2)		14.5(1) / 13.6(2)		16.0(1) / 15.2(2)	
Cooling capacity	Nom.			kW		12.1(1) / 11.7(2)		12.7(1) / 12.6(2)		13.8(1) / 13.1(2)		12.1(1) / 11.7(2)		12.7(1) / 12.6(2)		13.8(1) / 13.1(2)	
Power input	Heating	Nom.		kW		2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)		2.43(1) / 3.10(2)		3.37(1) / 4.10(2)		3.76(1) / 4.66(2)	
	Cooling	Nom.		kW		3.05(1) / 4.31(2)		3.21(1) / 5.08(2)		3.74(1) / 5.73(2)		3.05(1) / 4.31(2)		3.21(1) / 5.08(2)		3.74(1) / 5.73(2)	
COP						4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)		4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)		4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)		4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)		4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)		4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	
EER						3.98(1) / 2.72(2)		3.96(1) / 2.47(2)		3.69(1) / 2.29(2)		3.98(1) / 2.72(2)		3.96(1) / 2.47(2)		3.69(1) / 2.29(2)	
 Space heating	Average climate water outlet 55 °C	General	SCOP			3.09		3.16		3.06		3.09		3.16		3.06	
			η _s (Seasonal space heating efficiency)	%		120		123		119		120		123		119	
			Seasonal space heating eff. class			A+											
	Average climate water outlet 35 °C	General	SCOP			3.98		3.90		3.80		3.98		3.90		3.80	
			η _s (Seasonal space heating efficiency)	%		156		153		149		156		153		149	
						Seasonal space heating eff. class		A++		A+		A++				A+	
Indoor Unit				EHBX		11CB3V/9W		16CB3V/9W		16CB3V/9W		11CB3V/9W		16CB3V/9W		16CB3V/9W	
Casing	Colour					White											
	Material					Precoated sheet metal											
Dimensions	Unit	Height x Width x Depth		mm		890 x 480 x 344											
Weight	Unit			kg		43.0	45.0	44.0	46.0	44.0	46.0	43.0	45.0	43.0	45.0	43.0	45.0
Operation range	Heating	Water side Min.~Max.		°C		15 ~55.0											
	Cooling	Water side Min.~Max.		°C		5.00 ~22.0											
	Domestic hot water	Water side Min.~Max.		°C		5.00 ~22.0											
Sound power level	Nom.			dBA		41.0		44.0		44.0		41.0		41.0		41.0	
Sound pressure level	Nom.			dBA		27.0		30.0		30.0		27.0		27.0		27.0	
Outdoor Unit				ERLQ-C		011CV3		014CV3		016CV3		011CW1		014CW1		016CW1	
Dimensions	Unit	Height x Width x Depth		mm		1,345 x 900 x 320											
Weight	Unit			kg		113											
Compressor	Quantity					1											
	Type					Hermetically sealed scroll compressor											
Operation range	Cooling	Min.~Max.		°CDB		10.0~46.0											
	Domestic hot water	Min.~Max.		°CDB		-20 ~35											
Refrigerant	Type					R-410A											
	GWP					2,087.5											
	Charge			kg		3.4											
	Charge			TCO ₂ Eq		7.1											
	GWP					2,087.5											
Sound power level	Heating	Nom.		dBA		64		66		66		64		66		66	
	Cooling	Nom.		dBA		64		66		69		64		66		69	
Sound pressure level	Heating	Nom.		dBA		51		52		52		51		52		52	
	Cooling	Nom.		dBA		50		52		54		50		52		54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V		V3/1~/50/230						W1/3N~/50/400					
Current	Recommended fuses			A		40						20					

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


Daikin Altherma R W

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

- › Wall mounted indoor unit
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -20 °C
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Heat pumps

Efficiency data				EHBX + ERHQ-B		11CB9W + 011BV3	11CB3V + 011BV3	16CB3V + 014BV3	16CB9W + 014BV3	16CB9W + 016BV3	16CB3V + 016BV3	11CB9W + 011BW1	11CB3V + 011BW1	16CB9W + 014BW17	16CB3V + 014BW17	16CB3V + 016BW1	16CB9W + 016BW1
Heating capacity	Nom.			kW		11.2(1) / 10.3(2)		14.0(1) / 13.1(2)		16.0(1) / 15.2(2)		11.3(1) / 11.0(2)		14.5(1) / 13.6(2)		16.1(1) / 15.1(2)	
Cooling capacity	Nom.			kW		13.9(1) / 10.0(2)		17.3(1) / 12.5(2)		17.8(1) / 13.1(2)		15.1(1) / 11.7(2)		16.1(1) / 12.6(2)		16.8(1) / 13.1(2)	
Power input	Heating	Nom.		kW		2.55(1) / 3.17(2)		3.26(1) / 4.04(2)		3.92(1) / 4.75(2)		2.63(1) / 3.24(2)		3.42(1) / 4.21(2)		3.82(1) / 4.69(2)	
	Cooling	Nom.		kW		3.86(1) / 3.69(2)		5.86(1) / 5.69(2)		6.87(1) / 5.95(2)		4.53(1) / 4.31(2)		5.43(1) / 5.08(2)		6.16(1) / 5.73(2)	
COP						4.39(1) / 3.25(2)		4.29(1) / 3.24(2)		4.08(1) / 3.20(2)		4.30(1) / 3.39(2)		4.24(1) / 3.22(2)		4.20(1) / 3.22(2)	
EER						3.60(1) / 2.71(2)		2.95(1) / 2.32(2)		2.59(1) / 2.20(2)		3.32(1) / 2.72(2)		2.96(1) / 2.47(2)		2.72(1) / 2.29(2)	
 Space heating	Average climate water outlet 55 °C	General	SCOP			2.86		2.82		2.92		2.90		2.86		2.96	
			ηs (Seasonal space heating efficiency)	%		112		110		114		113		111		115	
			Seasonal space heating eff. class		A+												
	Average climate water outlet 35 °C	General	SCOP			2.99		3.23		3.29		3.08		3.34		3.33	
			ηs (Seasonal space heating efficiency)	%		117		126		129		120		131		130	
			Seasonal space heating eff. class		A		A+			A		A+					
Indoor Unit				EHBX	11CB9W	11CB3V	16CB3V	16CB9W	16CB3V	11CB9W	11CB3V	16CB9W	16CB3V	16CB9W			
Casing	Colour				White												
	Material				Precoated sheet metal												
Dimensions	Unit	Height x Width x Depth		mm	890 x 480 x 344												
Weight	Unit			kg	45.0	43.0	44.0	46.0	44.0	45.0	43.0	46.0	44.0	46.0			
Operation range	Heating	Water side Min.~Max.		°C	15 ~55.0												
	Cooling	Water side Min.~Max.		°C	5.00 ~22.0												
	Domestic hot water	Water side Min.~Max.		°C	25~80												
Sound power level	Nom.			dBA	41.0		44.0		41.0		44.0						
Sound pressure level	Nom.			dBA	27.0		30.0		27.0		30.0						
Outdoor Unit				ERHQ-B	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1							
Dimensions	Unit	Height x Width x Depth		mm	1,170 x 900 x 320						1,345 x 900 x 320						
Weight	Unit			kg	102						108						
Compressor	Quantity				1												
	Type				Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0												
	Domestic hot water	Min.~Max.		°CDB	-20 ~35												
Refrigerant	Type				R-410A												
	GWP				2,087.5												
	Charge	kg			2.7						3.0						
	Charge	TCO ₂ Eq			5.6						6.3						
	GWP				2,087.5												
Sound power level	Heating	Nom.	dBA	64				66		64				66			
	Cooling	Nom.	dBA	64	66		69		64		66		69				
Sound pressure level	Heating	Nom.	dBA	49	51		53		51				52				
	Cooling	Nom.	dBA	50	52		54		50		52		54				
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230						W1/3N~/50/400						
Current	Recommended fuses			A	32						20						

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


Daikin Altherma R W

Wall mounted **heating only** air to water heat pump without back-up heater

- › Energy efficient heating only system without back-up heater
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-1W0068 → 78

Efficiency data				EHBH + ERLQ-C	11CBV + 011CV3	16CBV + 014CV3	16CBV + 016CV3	11CBV + 011CW1	16CBV + 014CW1	16CBV + 016CW1
Heating capacity	Nom.			kW	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)
Power input	Heating	Nom.		kW	2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	2.43 (1) / 3.10 (2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)
COP					4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)
 Space heating	Average climate water outlet 55 °C	General	SCOP	%	3.09	3.16	3.06	3.09	3.16	3.06
			Seasonal space heating eff. class		120	123	119	120	123	119
					A+					
	Average climate water outlet 35 °C	General	SCOP	%	3.98	3.90	3.80	3.98	3.90	3.80
			Seasonal space heating eff. class		156	153	149	156	153	149
							A++		A+	
					A++		A+		A++	
				A++		A+		A++		
Indoor Unit				EHBH	11CBV	16CBV	16CBV	11CBV	16CBV	16CBV
Casing	Colour	White								
	Material	Precoated sheet metal								
Dimensions	Unit	Height x Width x Depth	mm	890 x 480 x 344						
Weight	Unit		kg	41.0	42.0			41.0	42.0	
Operation range	Heating	Water side Min.~Max.	°C	10 ~55.0						
	Domestic hot water	Water side Min.~Max.	°C	25~80						
Sound power level	Nom.		dBA	41.0	44.0			41.0	44.0	
Sound pressure level	Nom.		dBA	27.0	30.0			27.0	30.0	
Outdoor Unit				ERLQ-C/ERLQ	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm	1,345 x 900 x 320						
Weight	Unit		kg	113				114		
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10.0~46.0						
	Domestic hot water	Min.~Max.	°CDB	-20 ~35						
Refrigerant	Type			R-410A						
	GWP			2,087.5						
	Charge	kg		3.4						
	Charge	TCO ₂ Eq		7.1						
	Control			Expansion valve (electronic type)						
Sound power level	Heating	Nom.	dBA	64		66		64		66
	Cooling	Nom.	dBA	64	66		69	64	66	69
Sound pressure level	Heating	Nom.	dBA	51		52		51		52
	Cooling	Nom.	dBA	50	52		54	50	52	54
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	40			20		

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


Daikin Altherma R W

Wall mounted **heating only** air to water heat pump without back-up heater

- › Energy efficient heating only system without back-up heater
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Daikin Residential controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)





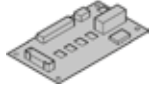







Heat pumps

Efficiency data				EBBH + ERHQ-B	11CBV + 011BV3	16CBV + 014BV3	16CBV + 016BV3	11CBV + 011BW1	16CBV + 014BW17	16CBV + 016BW1
Heating capacity	Nom.			kW	11.2(1) / 10.3(2)	14.0(1) / 13.1(2)	16.0(1) / 15.2(2)	11.3(1) / 11.0(2)	14.5(1) / 13.6(2)	16.1(1) / 15.1(2)
Power input	Heating	Nom.		kW	2.55(1) / 3.17(2)	3.26(1) / 4.04(2)	3.92(1) / 4.75(2)	2.63(1) / 3.24(2)	3.42(1) / 4.21(2)	3.82(1) / 4.69(2)
COP					4.39(1) / 3.25(2)	4.29(1) / 3.24(2)	4.08(1) / 3.20(2)	4.30(1) / 3.39(2)	4.24(1) / 3.22(2)	4.20(1) / 3.22(2)
 Space heating	Average climate water outlet 55 °C	General	SCOP ηs (Seasonal space heating efficiency)	%	2.86 112	2.82 110	2.92 114	2.90 113	2.86 111	2.96 115
	Seasonal space heating eff. class				A+					
	Average climate water outlet 35 °C	General	SCOP ηs (Seasonal space heating efficiency)	%	2.99 117	3.23 126	3.29 129	3.08 120	3.34 131	3.33 130
	Seasonal space heating eff. class				A+					
Indoor Unit				EBBH	11CBV	16CBV	16CBV	11CBV	16CBV	16CBV
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth	mm		890 x 480 x 344					
Weight	Unit			kg	41.0	42.0		41.0	42.0	
Operation range	Heating	Water side	Min.~Max.	°C	10 ~55.0					
	Domestic hot water	Water side	Min.~Max.	°C	25~80					
Sound power level	Nom.			dBA	41.0	44.0		41.0	44.0	
Sound pressure level	Nom.			dBA	27.0	30.0		27.0	30.0	
Outdoor Unit				ERHQ/ERHQ	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1
Dimensions	Unit	Height x Width x Depth	mm		1,170 x 900 x 320			1,345 x 900 x 320		
Weight	Unit			kg	102			108		
Compressor	Quantity				1					
Operation range	Type				Hermetically sealed scroll compressor					
	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge	kg			2.7		3.0		2.95	3.0
	Charge	TCO ₂ Eq			5.6				6.3	
	Control				Expansion valve (electronic type)					
Sound power level	Heating	Nom.	dBA	64		66		64	60	66
	Cooling	Nom.	dBA	64	66	69	64	66	69	
Sound pressure level	Heating	Nom.	dBA	49	51	53	51	50	52	
	Cooling	Nom.	dBA	50	52	54	50	50	54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	32			20		

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

Options

		Type	Material name	Daikin Altherma R W 11-16kW
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	EKRUCSB	•
		Room thermostat (wired)	EKRTWA	•
		Room thermostat (wireless)	EKRTR1	•
		Centralised controller kit	EKCC-W	•
Adapter		Demand PCB	EKR1AHTA	•
		Digital I/O PCB	EKR1HBAA	•
Back-up heater		Back-up heater kit	EKLBUEHCB6W1	•
		Booster heater for tank integrated design	EKBSHCA3V3	•
		Bottom plate heater	EKBPTH16A	•
Drain		Drain kit	EKDK04	•
		Drain pan for indoor wall mounted	EKHBDPCA2	•
Filter		Magnetic filter without additives	K.FERNOXTF1	•
		Magnetic filter with additive (500 ml inhibitor fluid F1)	K.FERNOXTF1FL	•
Installation		Bi-Zone kit	BZKA7V3	•
		Snowcover	EK016SNCA	•
		UK tank kit	EKVSU260A	•
Sensor		Remote indoor sensor	KRCS01-1B	•
		External sensor	EKRTETS	•
Others		PC cable	EKPCCAB4	•
		Connection kit with storage tank EKHPW*	EKBH3SC	•



Daikin Altherma 3 M

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.



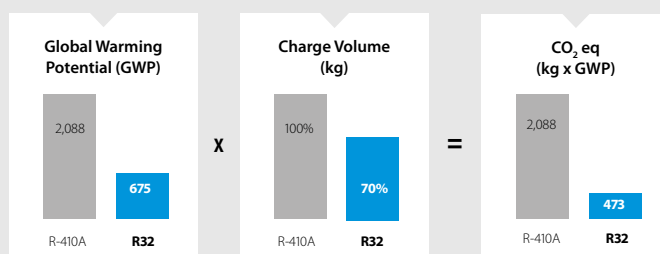


R-32 monobloc

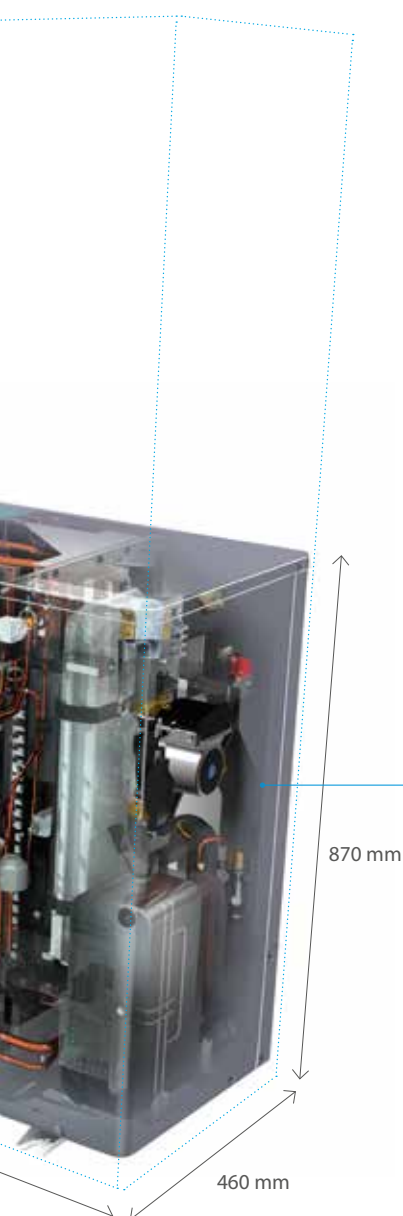
Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO₂ emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the 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.



Daikin Residential Controller app, with voice control

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



Cloud ready with WLAN option



Madoka, user-friendly wired room thermostat

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



Heating and cooling emitters

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



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

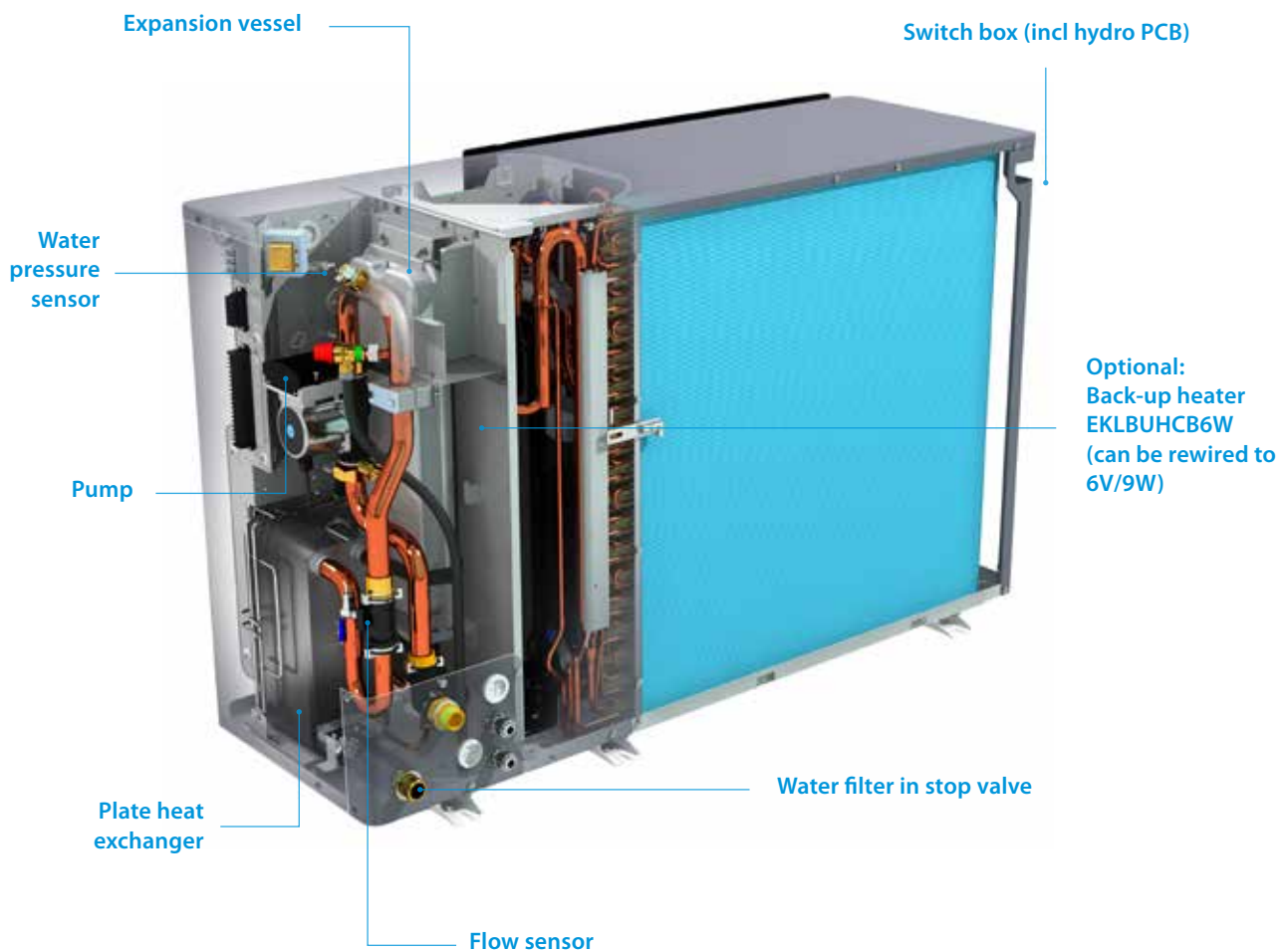


Domestic hot water production

The Daikin Altherma 3 M monobloc combines with stainless steel tanks (EKHWS-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(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	Silver			
				Material	Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth		mm	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			
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB	-25 ~ 35			
		Water side	Min.~Max.	°C	25 ~ 55			
Refrigerant	Type				R-32			
	GWP				675.0			
	Charge			kg	3.80			
	Charge			TCO2Eq	2.57			
	Control				Expansion valve			
Sound power level (3)	Heating	Nom.		dBA	62			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400			
Current	Recommended fuses			A	32/16			

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) According to EN14825 This product contains fluorinated greenhouse gases.


Daikin Altherma 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














011-1W0423 → 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/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)
Cooling capacity	Nom.			kW	9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)	14.0 (3) / 15.3 (4)
Power input	Cooling	Nom.		kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)	4.58 (3) / 3.24 (4)
EER					3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)	3.06 (3) / 4.74 (4)
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
 Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		135	132	134	132
			SCOP	3.44	3.37	3.42	3.37	
			Seasonal space heating eff. class	A++				
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		190	186	185	
			SCOP	4.82	4.73	4.70	4.69	
			Seasonal space heating eff. class	A+++				
Casing	Colour				Silver			
	Material				Polyester painted galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth		mm	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			
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10 ~ 43			
		Water side	Min.~Max.	°C	5 ~ 22			
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB	-25 ~ 35			
		Water side	Min.~Max.	°C	25 ~ 55			
Refrigerant	Type				R-32			
	GWP				675.0			
	Charge			kg	3.80			
	Charge			TCO2Eq	2.57			
	Control				Expansion valve			
Sound power level (5)	Heating	Nom.		dBA	62			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400			
Current	Recommended fuses			A	32/16			

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) | (2) Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) | (3) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB | (4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB | (5) According to EN14825

This product contains fluorinated greenhouse gases.

Options

				NO BUH		BUH	
				H/O	REV	H/O	REV
				EDLA-DV3/W1	EBLA-DV3/W1	EBLA-D3V3/3W1	EBLA-D3V3/3W1
		Type	Material name				
Controllers		Madoka, remote user interface	BRC1HHDW/S/K	●	●	●	●
		WLAN cartridge	BRP069A78	●	●	●	●
		Room thermostat (wired)	EKRTWA	●	●	●	●
		Room thermostat (wireless)	EKRTR1	●	●	●	●
		External sensor	EKRTETS	●	●	●	●
Adapters		Demand PCB	EKRP1AHTA	●	●	●	●
		Digital I/O PCB	EKRP1HBAA	●	●	●	●
Installation		Bi-Zone kit (watts kit)	BZKA7V3	●	●	●	●
		Anti-freeze valve	AFVALVE1	●	●	●	●
		Flow switch	EKFLSW1	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾	● ⁽¹⁾
		BY-pass kit	EKMBHBP1		●		
		BUH-kit	EKLBUHCB6W	●	●		
		Third party tank kit	EKHY3PART	● ⁽²⁾	● ⁽²⁾	● ⁽²⁾	● ⁽²⁾
		Third party tank kit	EKHY3PART2	● ⁽³⁾	● ⁽³⁾	● ⁽³⁾	● ⁽³⁾
Sensors		Remote indoor sensor	KRCS01-1	●	●	●	●
		Remote outdoor sensor	EKRSCA-1	●	●	●	●
Others		PC USB cable	EKPCCAB4	●	●	●	●

(1) Mandatory when glycol is used.

(2) To use when thermistor can be inserted in the tank.

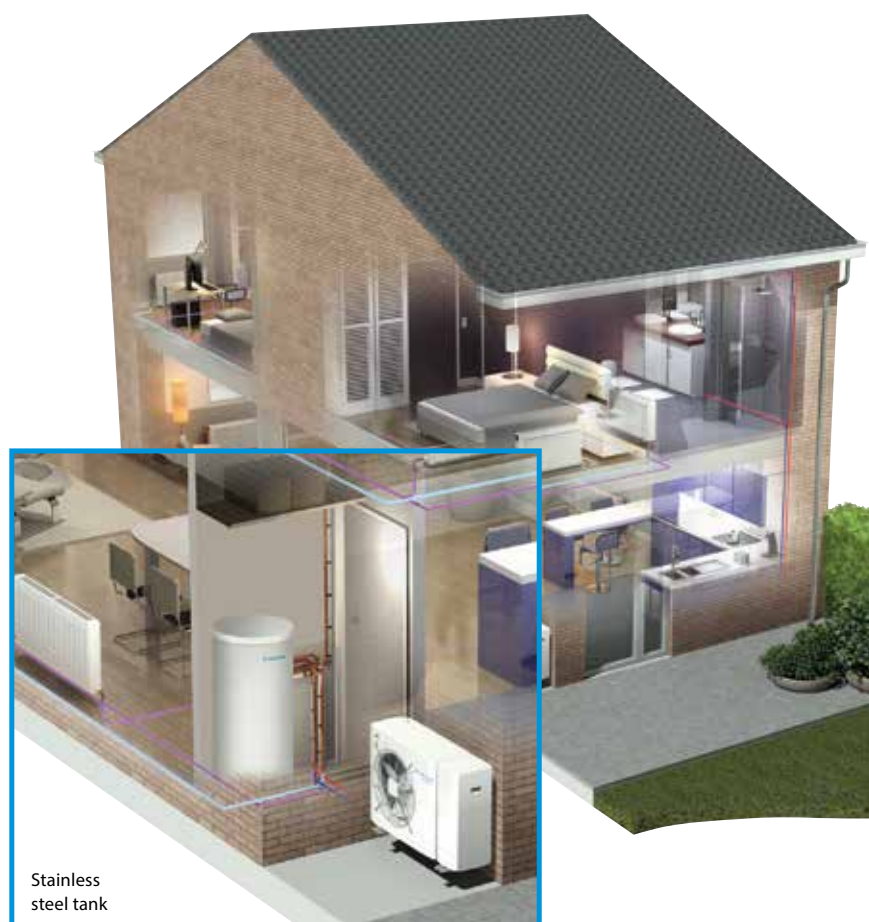
(3) To use when thermistor cannot be inserted in the tank.



Daikin Altherma M

The space-saving solution

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



A simple solution

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

- › Quiet and space-saving design that's easy to commission and install
- › All hydraulic components are combined into one outdoor unit
- › Reliable operation is guaranteed, even with outdoor temperatures as low as -25 °C
- › Combine with an **ECH₂O** thermal store to provide thermal support
- › Combine with a stainless steel tank for domestic hot water

High performance

- › Improved seasonal efficiency ErP label up to A++
- › High capacity at low ambient temperatures
- › Connection to new stainless steel DHW tank (EKHWS(U)-D) with improved energy efficiency label B



Daikin Altherma M, 5-7 kW

A⁺⁺

55 °C

Easy installation

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

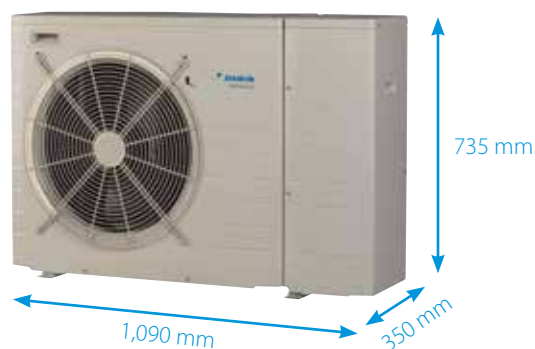
Year-round reliability

- › Delivers higher heating capacity at low ambient temperatures
- › Flow temperatures up to 55 °C, perfect for new build applications using UFH
- › Reliable operation is guaranteed, even with outdoor temperatures as low as -25 °C
- › Equipped with optional backup heater

Easy connection

- › The LAN adapter allows to control the unit via the heating app

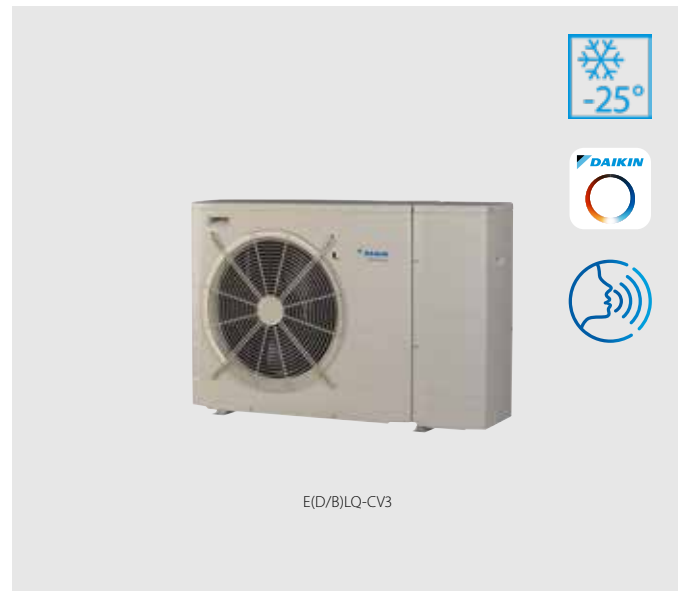
- › Back-up heater less models
- › Separate indoor wiring centre (control box)
- › Separate back-up heater kit



Daikin Altherma M

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

- › Compact reversible monobloc for space heating & cooling with optional domestic hot water
- › Compact heating only monobloc for space heating with optional domestic hot water
- › Fuss-free installation : only water connections required
- › Reliable operation even when -25 °C outside thanks to frost protection features such as free hanging coil
- › COP up to 5



E(D/B)LQ-CV3



A++

55 °C

R-410A



011-1W0079
011-1W0080

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




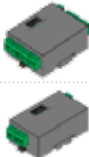










Wiring centre				EKCB07CV3		EK2CB07CV3	
Casing	Colour			White			
	Material			Precoated sheet metal			
Dimensions	Unit	Height x Width x Depth	mm	360 x 340 x 97.0			
Weight	Unit	kg		4.00			

Back-up heater kit				EKMBUHC3V3		EKMBUHC9W1	
Casing	Colour			White			
	Material			Precoated sheet metal			
Dimensions	Unit	Height x Width x Depth	mm	560 x 250 x 210			
Weight	Unit		kg	11.0		13.0	

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

(3) Contains fluorinated greenhouse gases.

Options

	Illustration	Type	Material name	Daikin Altherma M
				5-7 kW
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	•
		DCOM gateway	DCOM-LT/IO	
		DCOM gateway	DCOM-LT/MB	
Adapter		Digital I/O PCB	EKRP1HBAA	
Back-up heater		Back-up heater monobloc	EKMBUHC3V3/C9W1	•
		Bottom plate heater	EKBPTH16A	
Sensor		Remote sensor for OU	EKRSCA1	•
		External sensor	EKRTETS	•
		Remote sensor for IU	KRCS01-1	•
Wiring centre		Control box	EKCB07CAV3	•
		Option box	EK2CB07CAV3	•
By pass		Valve kit	EKMBHBP1	•
Bi-Zone		Bi-Zone kit	BZKA7V3	•
Others		Cable	EKPCCAB4	•
		Connection kit with controlbox EK(2)CB07CAV3 and storage tank EKHWP*	EKBH3SD	•

Daikin Altherma 3 H HT

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 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 such as the Daikin Altherma 3 H HT. The Daikin Altherma 3 H HT is the first Daikin outdoor unit with a distinctive design. Its single fan reduces the noise level and its black front grill makes the unit fit into any environment.

All these dedicated components were specially developed in-house to make the Daikin Altherma 3 H HT 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

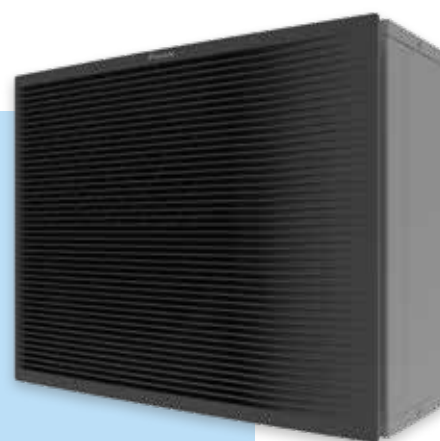
Timeless design and space-saving installation

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 grill 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.



reddot design award
winner 2019



Witness a timeless design

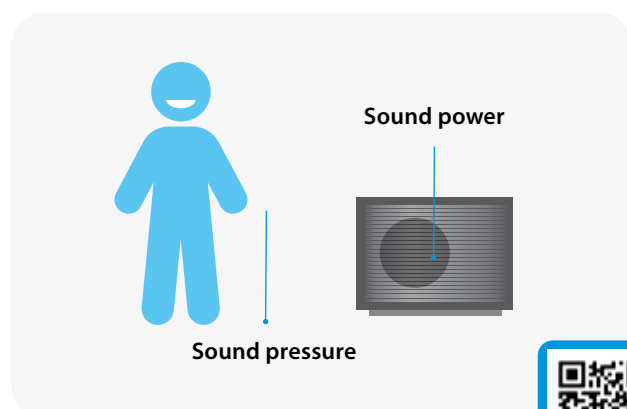
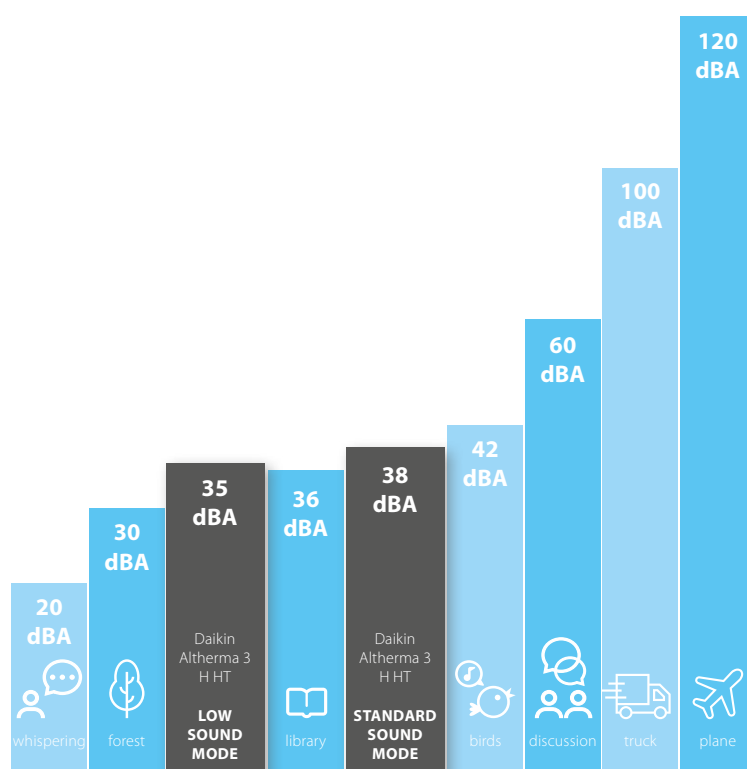


Silence rhymes with comfort

The Daikin Altherma 3 H HT 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 Daikin Altherma 3 H HT 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

Innovation At the heart of our concerns

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

A 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.

This unique design already got design awards.

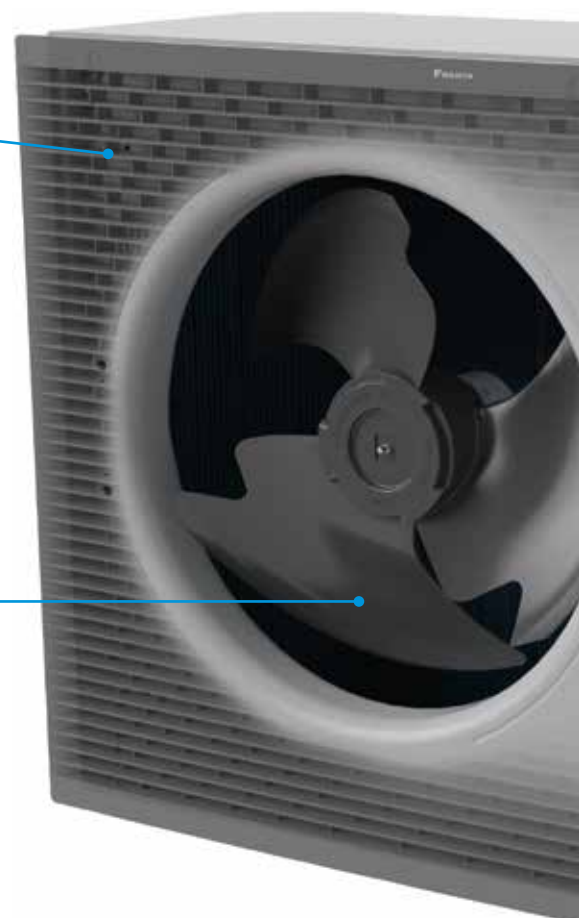


reddot design award
winner 2019

A single fan for high capacities

The single fan is slightly larger, replacing the usual double fan for high capacity units (classes 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.

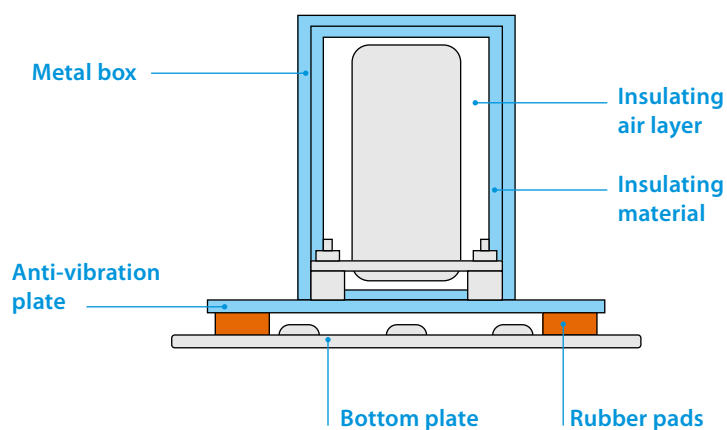


Compressor insulation and anti-vibration

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 Daikin Altherma 3 H HT benefits from a double sound reduction by using a 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.

Impressive performance

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



35 °C and 55 °C
Space heating

up to



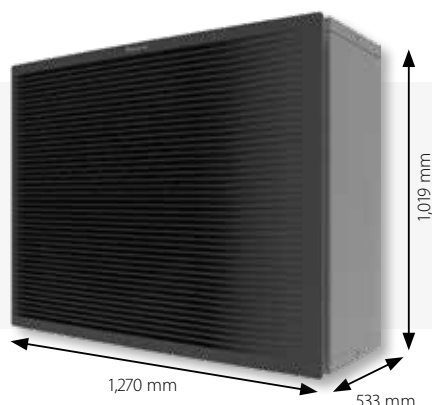
Feel a true performance

One solution, multiple combinations

The Daikin Altherma 3 H HT 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 3 classes 14-16-18.



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.



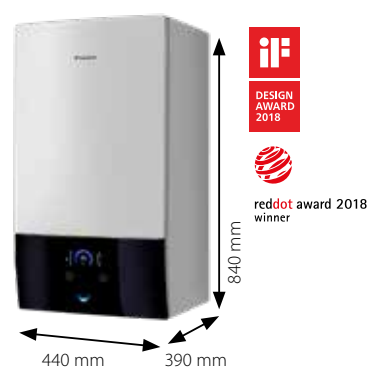
Integrated ECH₂O DHW tank model

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.



Get the best comfort

with the best functionalities

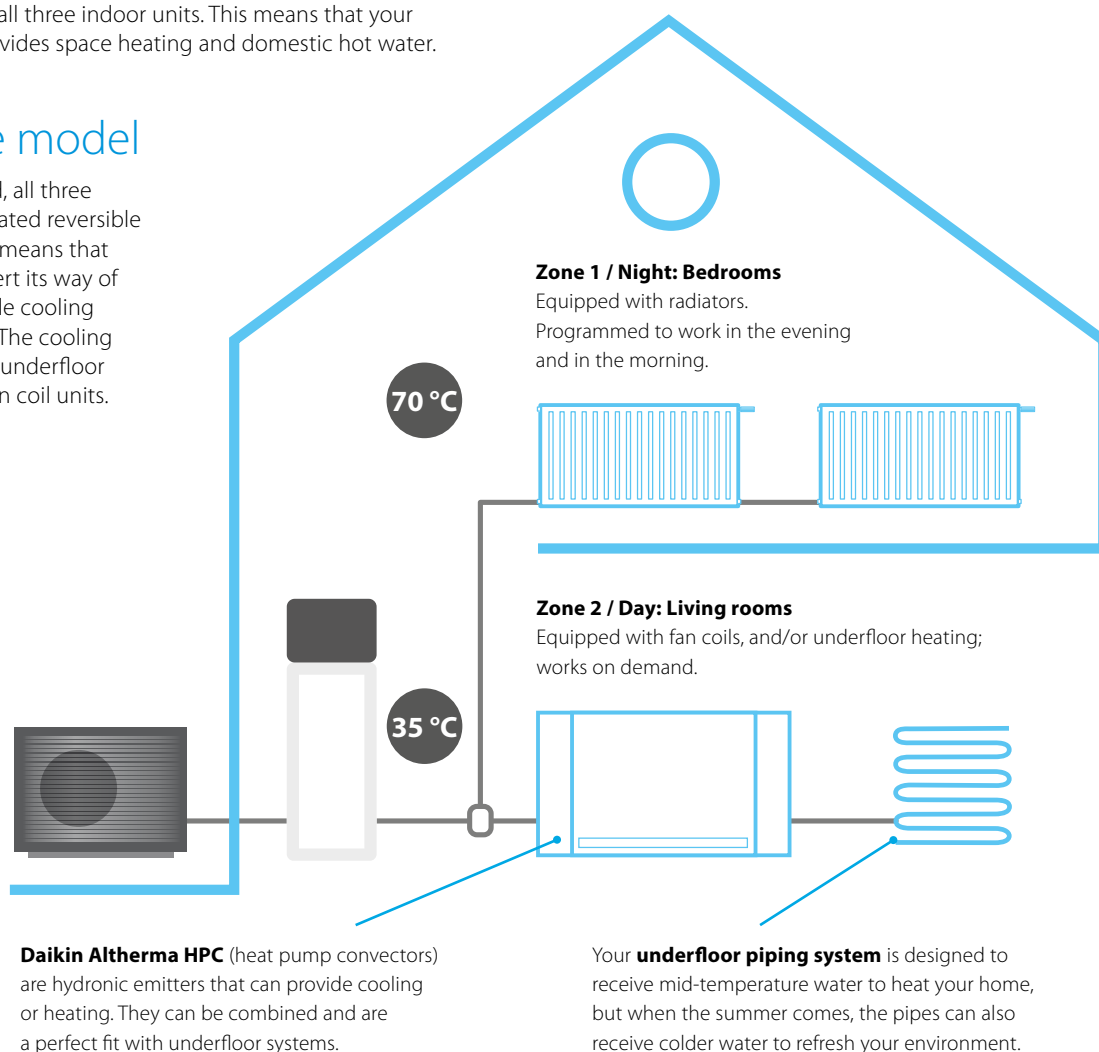
Choose from the Daikin "Three Pluses" the functionality that best fits your customer's needs. The indoor units come in 3 possible versions: heating only, reversible and bi-zone, giving you the opportunity to tailor your Daikin heating system.

+ 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.



+ Bi-zone model

The integrated floor standing model also has a dedicated bi-zone 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 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.

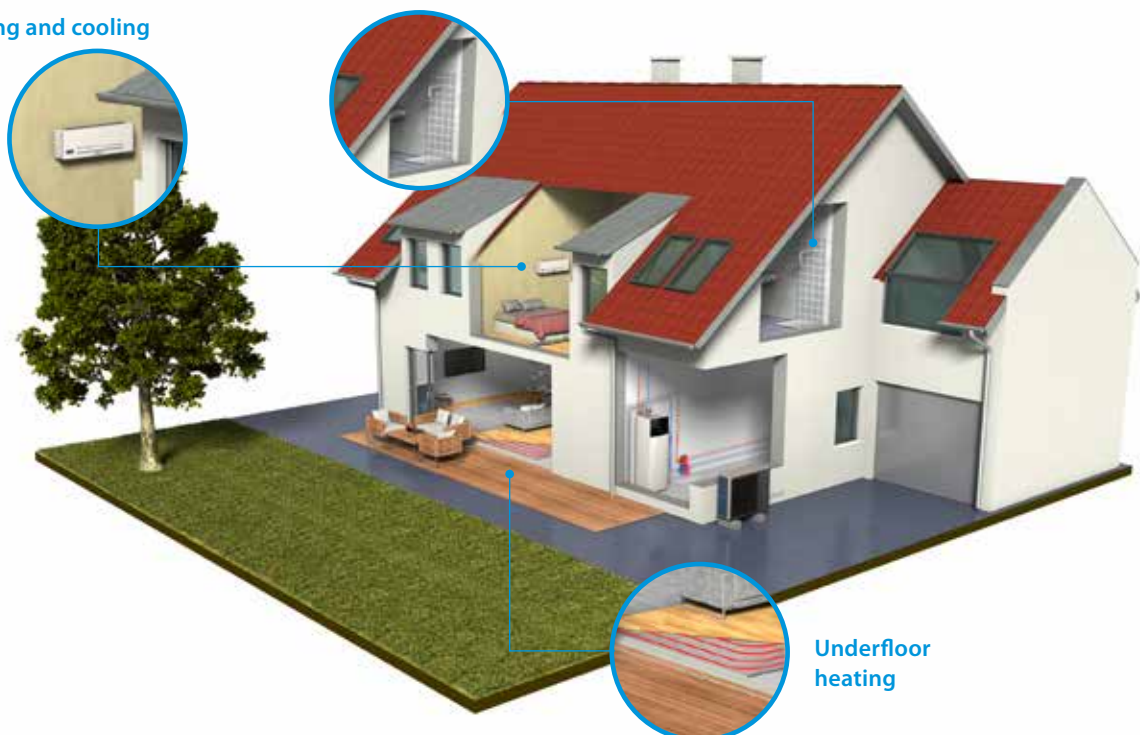
All in one system to save installation space and time

- › 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 625 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

Domestic hot water

Underfloor heating



All-in one design

Reduces the installation footprint and height

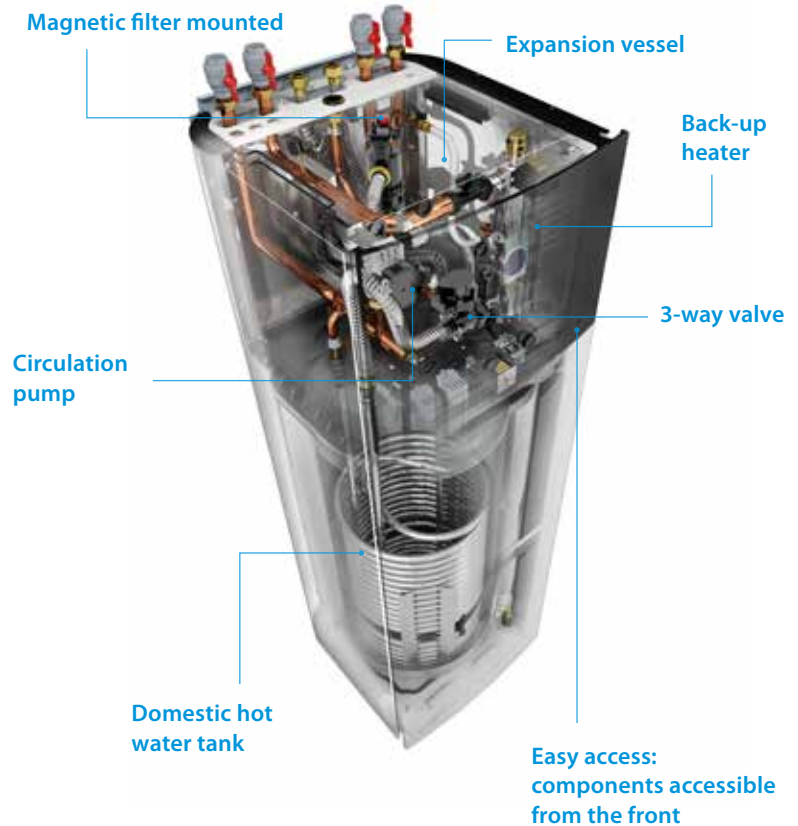
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 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 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.



Heat pumps

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 MMI 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 MMI. It's super easy to use with just a few buttons and 2 navigational knobs.

Beautiful design

The MMI 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 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



up to



A+++





A

70 °C

R-32



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

Efficiency data				ETVH + EPRA	16S18D6V(G)/ D9W(G) + 14DV/W	16S23D6V(G)/ D9W(G) + 14DV/W	16S18D6V(G)/ D9W(G) + 16DV/W	16S23D6V(G)/ D9W(G) + 16DV/W	16S18D6V(G)/ D9W(G) + 18DV/W	16S23D6V(G)/ D9W(G) + 18DV/W
 Space heating	Average climate water outlet 55 °C	General	SCOP		3,58 / 3,57					
			ηs (Seasonal space heating efficiency) %	140						
			Seasonal space heating eff. class	A++						
	Average climate water outlet 35 °C	General	SCOP		4,51 / 4,71					
			ηs (Seasonal space heating efficiency) %	177 / 186						
			Seasonal space heating eff. class	A+++						
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	COPdhw		2,62 / 2,51	2,61 / 2,55	2,62 / 2,51	2,61 / 2,55	2,62 / 2,51	2,61 / 2,55	
		ηwh (water heating efficiency) %	110 / 106	108 / 107	110 / 106	108 / 107	110 / 106	108 / 107		
		Water heating energy efficiency class	A							
Indoor Unit				ETVH	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)
Casing	Colour				White + Black					
	Material				Precoated 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	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	Water side Min.~Max.	°C	15 ~ 70						
	Domestic hot water	Water side Max.	°C	63						
Sound power level	Nom.		dBA	44						
Sound pressure level	Nom.		dBA	30						
Outdoor Unit				EPRA	14DV3/W1		16DV3/W1		18DV3/W1	
Dimensions	Unit	Height x Width x Depth	mm	1,003 x 1,270 x 533						
Weight	Unit		kg	146/151						
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10 ~ 43						
	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 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, 9 kW
- › Heat pump operation down to -28 °C



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

Efficiency data				ETVX + EPRA	16S18D6V(G)/ D9W(G) + 14DV/W	16S23D6V(G)/ D9W(G) + 14DV/W	16S18D6V(G)/ D9W(G) + 16DV/W	16S23D6V(G)/ D9W(G) + 16DV/W	16S18D6V(G)/ D9W(G) + 18DV/W	16S23D6V(G)/ D9W(G) + 18DV/W	
 Space heating	Average climate water outlet 55 °C	General	SCOP ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%	3,62 / 3,63						
					142						
					A++						
	Average climate water outlet 35 °C	General	SCOP ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%	4,57 / 4,81						
 Domestic hot water heating					180 / 190						
					A+++						
	General	Declared load profile			L	XL	L	XL	L	XL	
	Average climate	COP _{dhw} η _{wh} (water heating efficiency) Water heating energy efficiency class			2,62 / 2,51 110 / 106	2,61 / 2,55 108 / 107	2,62 / 2,51 110 / 106	2,61 / 2,55 108 / 107	2,62 / 2,51 110 / 106	2,61 / 2,55 108 / 107	
Indoor Unit					ETVX	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)
Casing	Colour				White + Black						
	Material				Precoated 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		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	Water side Min.~Max.	°C		15 ~ 70						
	Cooling	Water side Min.~Max.	°C		5 ~ 50						
	Domestic hot water	Water side Max.	°C		63						
Sound power level	Nom.		dBA		44						
Sound pressure level	Nom.		dBA		30						
Outdoor Unit					EPRA	14DV3/W1		16DV3/W1		18DV3/W1	
Dimensions	Unit	Height x Width x Depth	mm		1,003 x 1,270 x 533						
Weight	Unit		kg		146/151						
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB		10 ~ 43						
	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 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	16S18D6V/D9W + 14DV/W	16S23D6V/D9W + 14DV/W	16S18D6V/D9W + 16DV/W	16S23D6V/D9W + 16DV/W	16S18D6V/D9W + 18DV/W	16S23D6V/D9W + 18DV/W
	Space heating	Average climate	General	SCOP	3,58 / 3,57					
		water outlet		η _s (Seasonal space heating efficiency)	140					
	55 °C			Seasonal space heating eff. class	A++					
		Average climate	General	SCOP	4,51 / 4,71					
water outlet			η _s (Seasonal space heating efficiency)	177 / 186						
35 °C				Seasonal space heating eff. class	A+++					
	General	Declared load profile			L	XL	L	XL	L	XL
	Average	COP _{dhw}			2,62 / 2,51	2,61 / 2,55	2,62 / 2,51	2,61 / 2,55	2,62 / 2,51	2,61 / 2,55
	climate		η _{wh} (water heating efficiency)	%	110 / 106	108 / 107	110 / 106	108 / 107	110 / 106	108 / 107
		Water heating energy efficiency class			A					
Indoor Unit				ETVZ	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W
Casing	Colour			White + Black						
	Material			Precoated 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	120	128	120	128	120	128
Tank	Water volume			L	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Water side Min.~Max.		°C	15 ~ 70					
	Domestic hot water	Water side Max.		°C	63					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					
Outdoor Unit				EPRA	14DV3/W1		16DV3/W1		18DV3/W1	
Dimensions	Unit	Height x Width x Depth		mm	1,003 x 1,270 x 533					
Weight	Unit			kg	146/151					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	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)	Nom.				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.



Heat pumps

Daikin Altherma 3 H HT ECH₂O

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

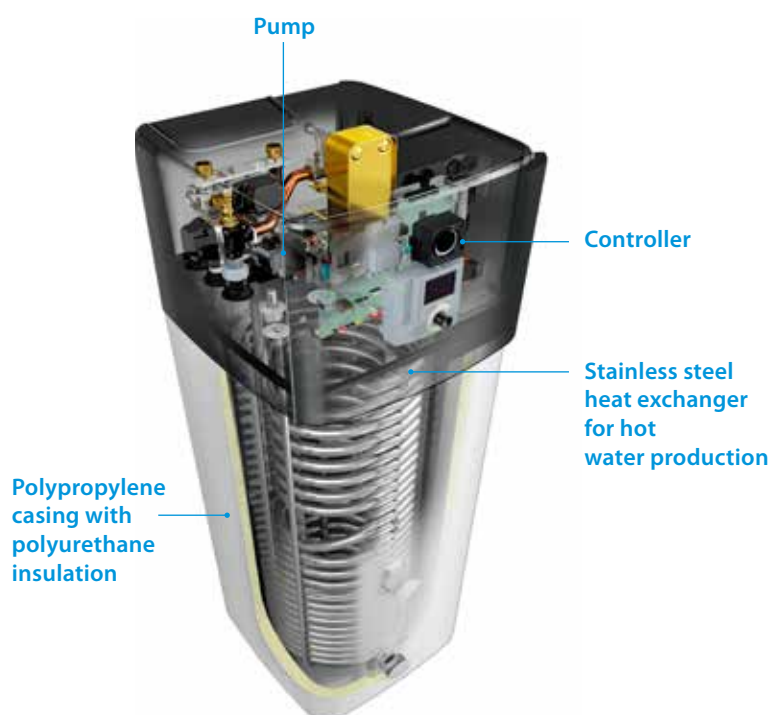
Innovative and high-quality tank

- › 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



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.

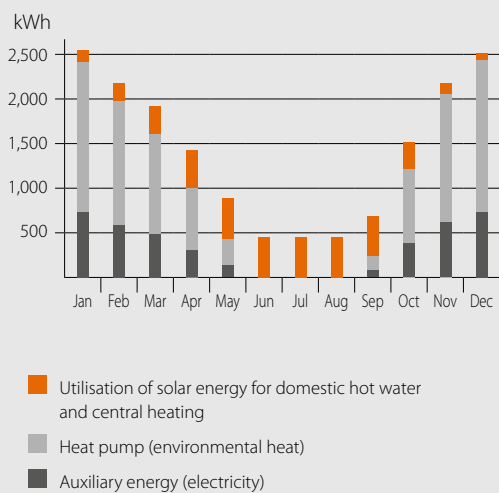
Pressureless (drain-back) solar system (ETSH-D, ETSX-D)

- › 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 (ETSHB-D, EHSXB-D)

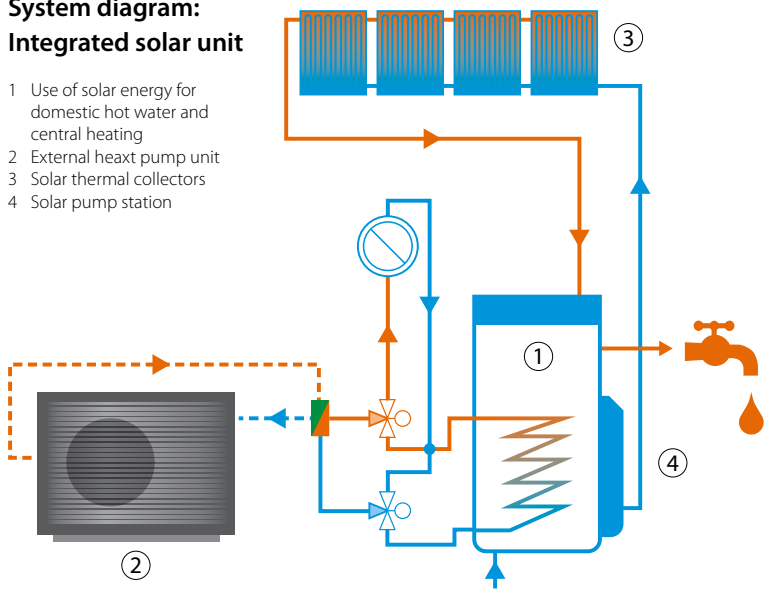
- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed

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 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



EPRA14-18DV3/W1

ETSH-D

up to



A+++





A

70 °C

R-32



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

Efficiency data				ETSH + EPRA	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV/W	16P50D + 16DV/W	16P30D + 18DV/W	16P50D + 18DV/W	
 Space heating	Average climate water outlet 55 °C	General	SCOP				3,58 / 3,57				
			η _s (Seasonal space heating efficiency)	%				140			
			Seasonal space heating eff. class					A++			
	Average climate water outlet 35 °C	General	SCOP				4,51 / 4,71				
			η _s (Seasonal space heating efficiency)	%				177 / 186			
Seasonal space heating eff. class							A+++				
 Domestic hot water heating	General Average climate	Declared load profile			L	XL	L	XL	L	XL	
		COP _{dhw}			2,38	2,75 / 2,67	2,38	2,75 / 2,67	2,38	2,75 / 2,67	
		η _{wh} (water heating efficiency)	%		101	115 / 111	101	115 / 111	101	115 / 111	
		Water heating energy efficiency class			A						
Indoor Unit				ETSH	16P30D	16P50D	16P30D	16P50D	16P30D	16P50D	
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)									
	Material	Impact resistant polypropylene									
Dimensions	Unit	Height x Width x Depth	mm	1,891 x 590 x 615			1,896 x 785 x 785		1,891 x 590 x 615	1,896 x 785 x 785	
Weight	Unit		kg	73	90	73	90	73	90		
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.	°CDB	-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	14DV3/W1		16DV3/W1		18DV3/W1		
Dimensions	Unit	Height x Width x Depth	mm	1,003 x 1,270 x 533							
Weight	Unit		kg	146 / 151							
Compressor	Quantity			1							
	Type			Hermetically sealed scroll compressor							
Operation range	Cooling	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 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



EPRA14-18DV3/W1

ETHSB-D

up to



A+++



A



70 °C

R-32

Heat pumps



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

Efficiency data				ETSHB-D + EPRA	18P30D + 14DV/W	16P50D + 14DV/W	18P30D + 16DV/W	18P50D + 16DV/W	18P30D + 18DV/W	18P50D + 18DV/W
	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						
	Average climate	General	ηs (Seasonal space heating efficiency)	%	177 / 186					
			Seasonal space heating eff. class		A+++					
	Declared load profile	L	XL	L	XL	L	XL			
		COPdhw	2,38	2,58 / 2,75	2,38	2,58 / 2,75	2,38	2,58 / 2,75		
ηwh (water heating efficiency)				101	108 / 115	101	108 / 115	101	108 / 115	
Water heating energy efficiency class				A						
Indoor Unit				ETSHB	16P30D	16P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)								
	Material	Impact resistant polypropylene								
Dimensions	Unit	Height x Width x Depth	mm	1,891 x 590 x 615			1,896 x 785 x 785		1,891 x 590 x 615	1,896 x 785 x 785
Weight	Unit		kg	75	96	75	96	75	96	
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.	°CDB	-28 ~ 35					
		Water side	Min.~Max.	°C	10 ~ 73					
Sound power level	Nom.		dBA	45.6						
Sound pressure level	Nom.		dBA	32.8						
Outdoor Unit				EPRA	14DV3/W1		16DV3/W1		18DV3/W1	
Dimensions	Unit	Height x Width x Depth	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.	43,0								
Power supply	Name/Phase/Frequency/Voltage	Hz/V	V3/1~/50/230 / W1/3~/50/400							
Current	Recommended fuses	A	32/16							



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	16P30D + 14DV/W	16P50D + 14DV/W	16P30D + 16DV/W	16P50D + 16DV/W	16P30D + 18DV/W	16P50D + 18DV/W
	Space heating	Average climate	General	SCOP	3,62 / 3,63					
		water outlet 55 °C		ns (Seasonal space heating efficiency)	142					
	Average climate	General	Seasonal space heating eff. class	A++						
			SCOP	4,57 / 4,81						
	Domestic hot water heating	Average climate	General	ns (Seasonal space heating efficiency)	180 / 190					
		water outlet 35 °C		Seasonal space heating eff. class	A+++					
	Average climate	Declared load profile	COPdhw	L	XL	L	XL	L	XL	
			ηwh (water heating efficiency)	2,38	2,75 / 2,67	2,38	2,75 / 2,67	2,38	2,75 / 2,67	
Water heating energy efficiency class				101	115 / 111	101	115 / 111	101	115 / 111	
				A						
Indoor Unit				ETSX	16P30D	16P50D	16P30D	16P50D	16P30D	16P50D
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)								
	Material	Impact resistant polypropylene								
Dimensions	Unit	Height x Width x Depth	mm	1,891 x 590 x 615						
Weight	Unit		kg	73						
Tank	Water volume		L	294						
	Maximum water temperature		°C	477						
Operation range	Heating	Ambient	Min.~Max.	°C	85					
		Water side	Min.~Max.	°C	-28~35					
	Cooling	Ambient	Min.~Max.	°CDB	15~70					
		Water side	Min.~Max.	°C	10~43					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~22					
		Water side	Min.~Max.	°C	-28~35					
	Sound power level	Nom.		dBA	10~63					
	Sound pressure level	Nom.		dBA	45.6					
				32.8						
Outdoor Unit				EPRA	14DV3/W1	16DV3/DW1		18DV3/DW1		
Dimensions	Unit	Height x Width x Depth	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 ~ 43						
	Cooling	Min.~Max.	°CDB	10 ~ 43						
	Domestic hot water	Min.~Max.	°CDB	-25 ~35						
Refrigerant	Type			R-32						
	GWP			675.0						
	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 HT 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



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

Efficiency data				ETSXB-D + EPRA		16P30D + 14DV/W		16P50D + 14DV/W		16P30D + 16DV/W		16P50D + 16DV/W		16P30D + 18DV/W		16P50D + 18DV/W			
 Space heating	Average climate water outlet 55 °C	General	SCOP		%	3,62 / 3,63													
			η _s (Seasonal space heating efficiency)			142													
	Average climate water outlet 35 °C	General	Seasonal space heating eff. class		A++														
			SCOP		4,57 / 4,81														
Domestic hot water heating	Average climate	General	η _s (Seasonal space heating efficiency)		%	180 / 190													
			Seasonal space heating eff. class			A+++													
	Declared load profile		L		XL		L		XL		L		XL						
	COP _{dhw}		2,38		2,58 / 2,75		2,38		2,58 / 2,75		2,38		2,58 / 2,75						
η _{wh} (water heating efficiency)		101		108 / 115		101		108 / 115		101		108 / 115							
Water heating energy efficiency class		A																	
Indoor Unit				ETSXB-D		16P30D		16P50D		16P30D		16P50D		16P30D		16P50D			
Casing	Colour	Material		Traffic white (RAL9016) / Dark grey (RAL7011)															
Dimensions	Unit	Height x Width x Depth		mm	1,891 x 590 x 615		1,896 x 785 x 785		1,891 x 590 x 615		1,896 x 785 x 785		1,891 x 590 x 615		1,896 x 785 x 785				
Weight	Unit			kg	75		96		75		96		75		96				
Tank	Water volume			L	294		477		294		477		294		477				
Operation range	Maximum water temperature			°C	85														
	Heating	Ambient	Min.~Max.	°C	-25~35														
		Water side	Min.~Max.	°C	15~70														
	Cooling	Ambient	Min.~Max.	°CDB	10~43														
		Water side	Min.~Max.	°C	5~22														
	Domestic hot water	Ambient	Min.~Max.	°CDB	-28~35														
Sound power level	Nom.			dBA	45,6														
	Nom.			dBA	32,8														
Outdoor Unit				EPRA		14DV3/DW1		16DV3/W1		18DV3/W1									
Dimensions	Unit	Height x Width x Depth		mm	1,003 x 1,270 x 533														
Weight	Unit			kg	146/151														
Compressor	Quantity				1														
Operation range	Type				Hermetically sealed scroll compressor														
	Heating	Min.~Max.		°CDB	-28 ~ 35														
	Cooling	Min.~Max.		°CDB	10 ~ 43														
	Domestic hot water	Min.~Max.		°CDB	-25 ~ 35														
Refrigerant	Type				R-32														
	GWP				675,0														
	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 HT 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



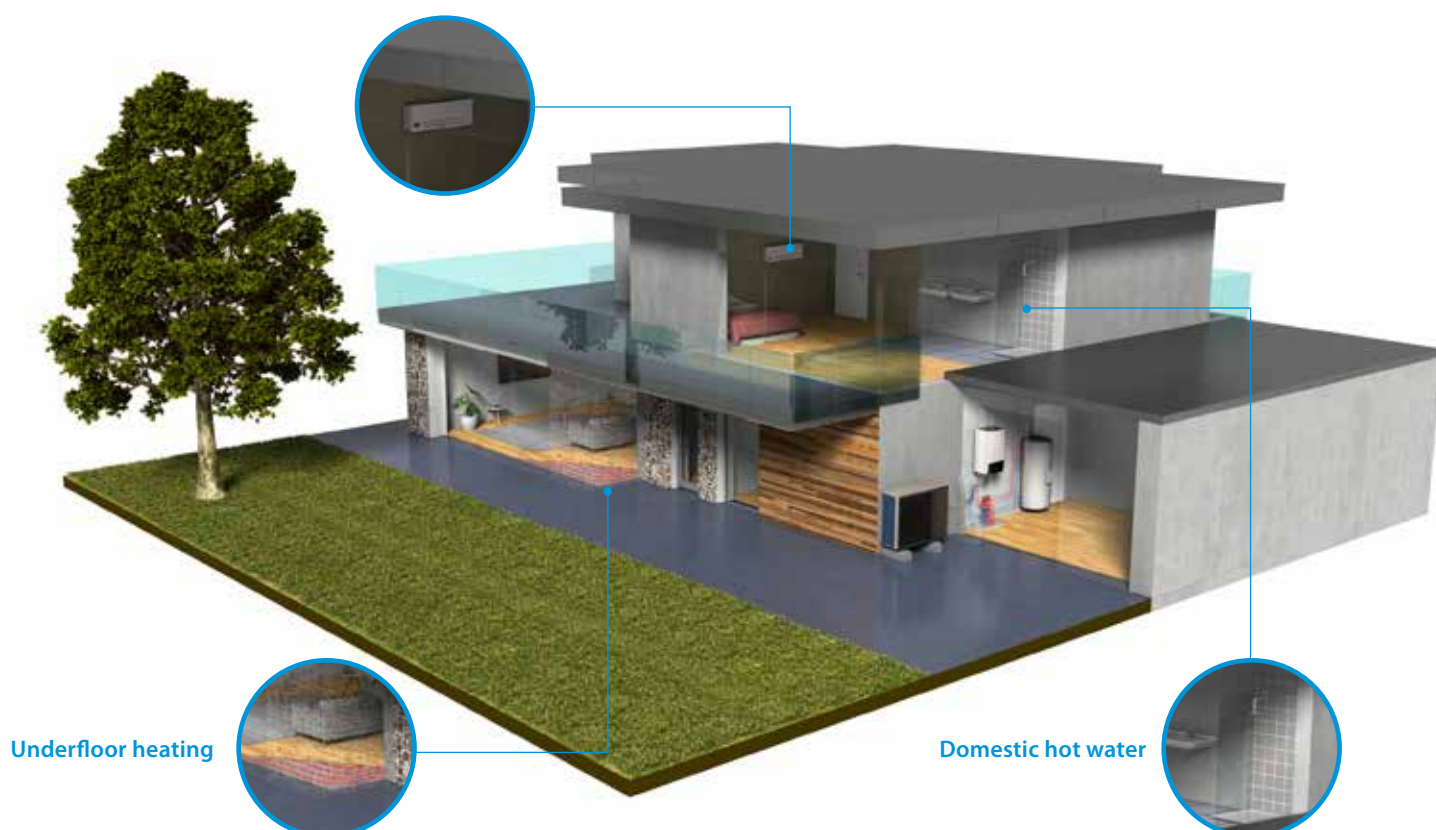
Heat pumps

Flexibility in providing space heating

Daikin Altherma 3 H HT 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 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



up to




A+++

70 °C

R-32



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

Efficiency data				ETBH + EPRA	16D6V + 14DV/DW	16D9W + 14DV/DW	16D6V + 16DV/W	16D9W + 16DV/W	16D6V + 18DV/DW	16D9W + 18DV/DW	
	Space heating	Average climate water outlet 55 °C	General	SCOP	3,58 / 3,57						
				ηs (Seasonal space heating efficiency) %	140						
				Seasonal space heating eff. class	A++						
	Average climate water outlet 35 °C	General	SCOP	4,51 / 4,71							
			ηs (Seasonal space heating efficiency) %	177 / 186							
			Seasonal space heating eff. class	A+++							
Indoor Unit					ETBH	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black						
	Material				Sheet metal						
Dimensions	Unit	Height x Width x Depth	mm	840 x 440 x 390							
Weight	Unit				42						
Operation range	Heating	Water side Min.~Max.	°C	18 ~ 70							
	Domestic hot water	Water side Min.~Max.	°C	25 ~ 80							
Sound power level	Nom.				44						
Sound pressure level	Nom.				30						
Outdoor Unit					EPRA	14DV3/DW1	16DV3/W1	18DV3/DW1			
Dimensions	Unit	Height x Width x Depth	mm	1,003 x 1,270 x 533							
Weight	Unit				146/151						
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	-28 ~ 35							
	Domestic hot water	Min.~Max.	°CDB	-25 ~ 35							
Refrigerant	Type				R-32						
	GWP				675.0						
	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 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	16D6V + 014DV/W	16D9W + 14DV/W	16D6V + 16DV/W	16D9W + 16DV/W	16D6V + 18DV/W	16D9W + 18DV/W
	Space heating	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+++				
Indoor Unit				ETBX	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Sheet metal					
Dimensions	Unit	Height x Width x Depth	mm	840 x 440 x 390						
Weight	Unit				42					
Operation range	Heating	Water side Min.~Max.	°C	18 ~ 70						
	Cooling	Water side Min.~Max.	°C	5 ~ 50						
	Domestic hot water	Water side Min.~Max.	°C	25 ~ 80						
Sound power level	Nom.				44					
Sound pressure level	Nom.				30					
Outdoor Unit				EPRA	14DV3/DW1	16DV3/W1		18DV3/DW1		
Dimensions	Unit	Height x Width x Depth	mm	1,003 x 1,270 x 533						
Weight	Unit				146/151					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB	10 ~ 43						
	Heating	Min.~Max.	°CDB	-28 ~ 35						
	Domestic hot water	Min.~Max.	°CDB	-25 ~ 35						
Refrigerant	Type				R-32					
	GWP				675.0					
	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)				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.

Combination table and options			Wall mounted	
			H/O (White)	Reversible (White)
			ETBH16DA6V ETBH16DA9W	ETBX16DA6V ETBX16DA9W
Type	Description	Material name		
Outdoor unit		EPRA14DAV3/W1	●	●
		EPRA16DAV3/W1	●	●
		EPRA18DAV3/W1	●	●
Controllers	Wired room thermostat	BRC1HHDA*	●	●
	Wired digital thermostat	EKWCTRD1V3	●	●
	Wired analog thermostat	EKWCTRAN1V3	●	●
	Valve actuator	EKWCVATR1V3	●	●
	Wired underfloor heating base station	EKWUFHTA1V3	●	●
	LAN Adapters + APP	BRP069A61	●	●
		BRP069A62	●	●
Heat pump convector	Floor standing	FWXV10-15-20ATV3	●	●
	Wall mounted	FWXT10-15-20ATV3	●	●
	Concealed	FWXM10-15-20ATV3	●	●
Domestic hot water tank	Stainless steel tank	EKHWS(U)150D3V3	●	●
		EKHWS(U)180D3V3	●	●
		EKHWS(U)200D3V3	●	●
		EKHWS(U)250D3V3	●	●
		EKHWS(U)300D3V3	●	●
	Polypropylene tank	EKHWP300B	● (1)	● (1)
		EKHWP500B	● (2)	● (2)
		EKHWP300PB	● (1)	● (1)
		EKHWP500PB	● (2)	● (2)
	Third party tank kit	EKHY3PART	● (3)	● (3)
		EKHY3PART2	● (4)	● (4)
Options	Bi-zone kit	BZKA7V3	●	●
	Remote indoor sensor	KRCS01-1	● (5)	● (5)
	Remote outdoor sensor	EKRSCA1	● (5)	● (5)
	PC USB cable	EKPCCAB4	●	●
	Universal centralized controller	EKCC8-W	●	●
	Digital I/O PCB	EKRPIHBAA	● (6)	● (6)
	Demand PCB	EKRPIAHTA	●	●
	Freeze protection valve	AFVALVE1	●	●
	Conversion kit H/O => reversible	EKHBCONV	●	
		EKHVCONV2		
	Connection kit with storage tank EKHWP*	EKBH3SD	●	●
Dedicated options for ECH ₂ O unit	Backup heater switch box	EKBHHSWB		
	Backup heater 1kW	EKBUB1C		
	Backup heater 3kW	EKBUB3C		
	Backup heater 9kW	EKBU9C		
	Room thermostat	EHS157034		
	Mixer module	EHS157067		
	Optional outdoor sensor	EKRSC1		
	Gateway for Apps	EHS157056		
	Hydraulic separator	172900		
	Heat insulation for HWC	172901		
	Pump group with mixer module	156075		
	Pump group without mixer module	156077		
	Connection kit for MK1	156053		
	Dirt separator SAS1	156021		
	Dirt separator SAS2	156023		
	Biv Connector Kit	141589		
	DB connector Kit	141590		
	Terminal connection kit	141592		
	Connector external heater	141591		

(1) Dedicated connection kit: EKEPHT3H.

(2) Dedicated connection kit: EKEPHT5H (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) Only 1 sensor can be connected: indoor OR outdoor sensor.

(6) Additional relays to allow bivalent control in combination with external room thermostat are field supply.

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.

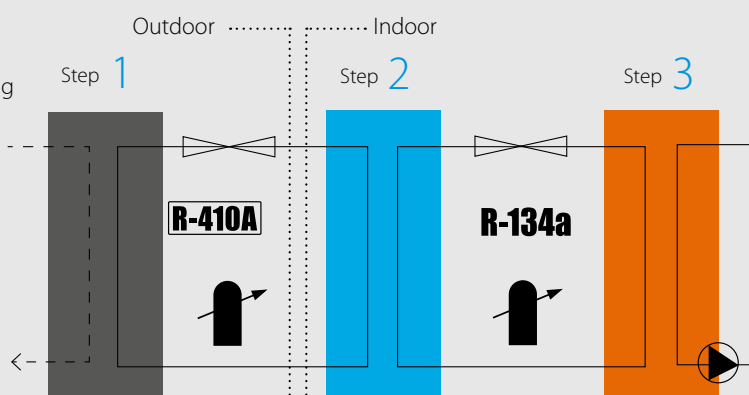
✓ Reliability

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

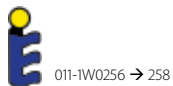
Floor standing **heating only** air to water heat pump
combinable **with existing radiators**

- › 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





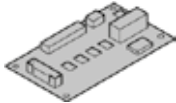
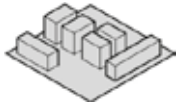
A⁺

R-410A

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)		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)		2.73 (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	
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)	%	115		116		117		115		116		117	
			Seasonal space heating eff. class													
			A+													
	ηs (Seasonal space heating efficiency)	%	2.70		2.81		2.88		2.70		2.81		2.88			
Seasonal space heating eff. class					105		110		112		105		110		112	
					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		mm	705 x 600 x 695											
Weight	Unit				144											
Operation range	Heating	Ambient	Min.~Max.	°C	-20.0 / 0.00 ~20											
		Water side	Min.~Max.	°C	25~80.0											
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20.0 ~35.0											
Refrigerant	Type				R-134a											
	Charge				2.60											
	Charge				3.718											
Sound pressure level	Nom.				dBA	43.0 / 46.0 / 0.00 / 0.00		45.0 / 46.0 / 0.00 / 0.00		46.0 / 46.0 / 0.00 / 0.00	43.0 / 46.0 / 0.00 / 0.00		45.0 / 46.0 / 0.00 / 0.00		46.0 / 46.0 / 0.00 / 0.00	
	Night quiet mode Level 1				dBA	40.0 / 0.00 / 0.00		43.0 / 0.00 / 0.00		45.0 / 0.00 / 0.00	40.0 / 0.00 / 0.00		43.0 / 0.00 / 0.00		45.0 / 0.00 / 0.00	
Outdoor Unit					ERRQ-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		mm	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				4.5											
	Charge				9.4											
	Control				Expansion valve (electronic type)											
Sound power level	Heating	Nom.		dBA	68		69		71	68		69		71		
Sound pressure level	Heating	Nom.		dBA	52		53		55	52		53		55		
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V1/1~/50/220-440						Y1/3~/50/380-415					
Current	Recommended fuses			A	25						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 |
Contains fluorinated greenhouse gases.

Options

	Type	Material name
Controllers	Remote user interface	EKRUAHTB
	 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	EKR1AHTA
	 Digital I/O PCB	EKR1HBAA
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



Daikin Altherma M HW 2nd GEN

New generation of domestic
water heat pumps



Flexibility first

Daikin Altherma M HW is the brand new range of heat pump water heaters with storage tank to generate domestic hot water, suitable for small residential applications.

It's a smart heating solution for domestic water that employs electricity, air and if needed solar thermal and photovoltaic energy without resorting to traditional fuels. Efficiency, an eco-friendly approach, flexibility and a new look are Daikin Altherma M HW's distinctive features, for which it stands out compared to a traditional electrical water heater.



			Capacity (L)	Heat Output (W)	Power input (W)	Solar Thermal Integration	GAS type	ERP class	Load profile	No. of people
EKHHE-CV3	Floor-standing Operation (-7/38°C)	200	192	1,820	430	NO	R-134a	A ⁺	L	3 people
		260	250	1,820	430	NO	R-134a	A ⁺	XL	4 people
EKHHE-PCV3	Floor-standing Operation (-7/38°C)	200	192	1,820	430	YES	R-134a	A ⁺	L	3 people
		260	250	1,820	430	YES	R-134a	A ⁺	XL	4 people
EKHLE-CV3	Floor-standing Operation (4/43°C)	200	187	1,600	370	NO	R-134a	A ⁺	L	3 people
		260	247	1,600	370	NO	R-134a	A ⁺	XL	4 people

Features

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

- › Maximum temperature of 62°C from renewable energy with heat pump alone or through a Heating Element (up to 75°C)
- › Programmable digital interface with TOUCH keys
- › Integration through Solar Thermal energy (LT-S model) or through a Heating Element (up to 75°C) on all models
- › Integration with Photovoltaic Solar system

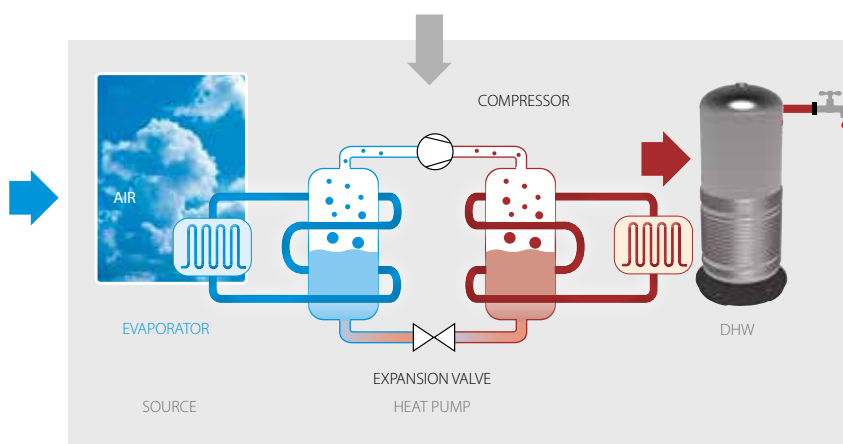


			Optimisation from Photovoltaic	Integrated Solar Thermal Control	Legionella Control Sanitisation	Time slot-based operation	OFF PEAK feature	Defrosting on	Holiday Mode
EKHHE-CV3	Floor-standing	200	•	-	•	•	•	•	•
		260	•	-	•	•	•	•	•
EKHHE-PCV3	Floor-standing	200	•	•	•	•	•	•	•
		260	•	•	•	•	•	•	•
EKHLE-CV3	Floor-standing	200	•	-	•	•	•	-	•
		260	•	-	•	•	•	-	•

The incentives...

when saving is a must

Daikin Altherma M HW makes the most of all the features and technology of air-water heat pumps to produce domestic hot water. Only 25% of the system's energy demand comes from electricity.



Installation

Where would you like me to put it?

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

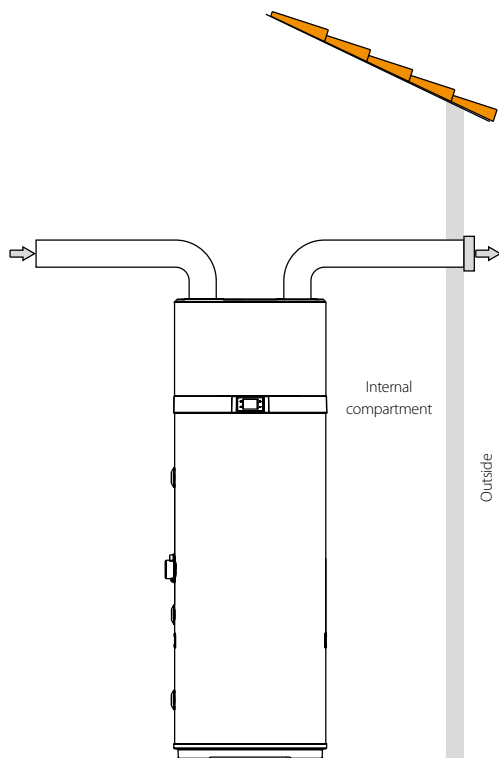


Fig. 1 - Example of air discharge connection

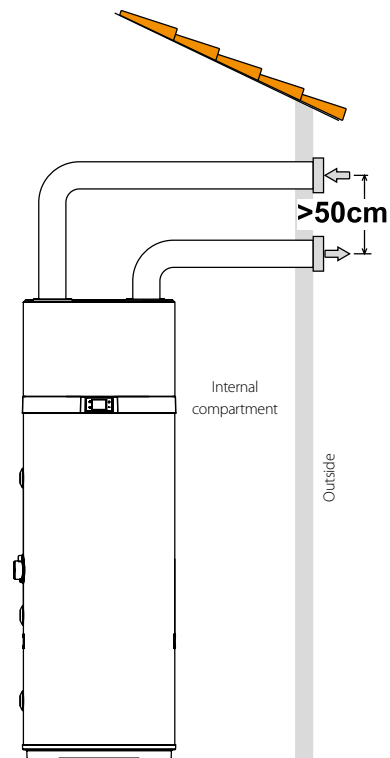


Fig. 2 - Example of air discharge connection

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 below (Fig. 2): it involves additional ducting that draws air from outdoors, rather than directly from indoors.

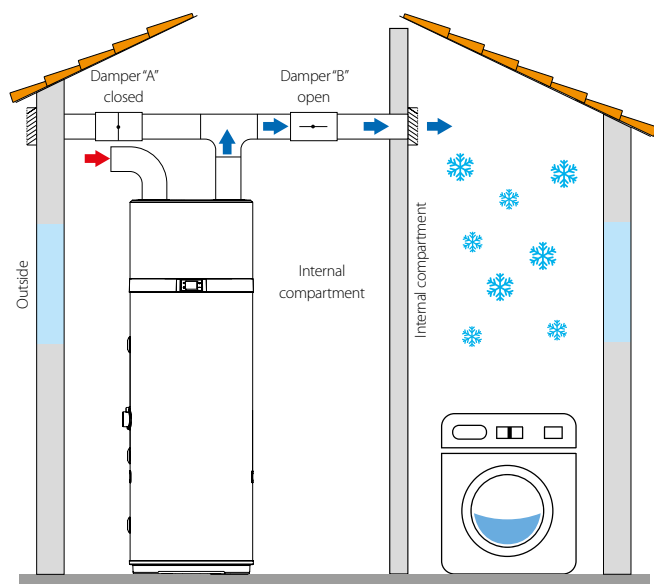


Fig. 3 - Example of installation in summer

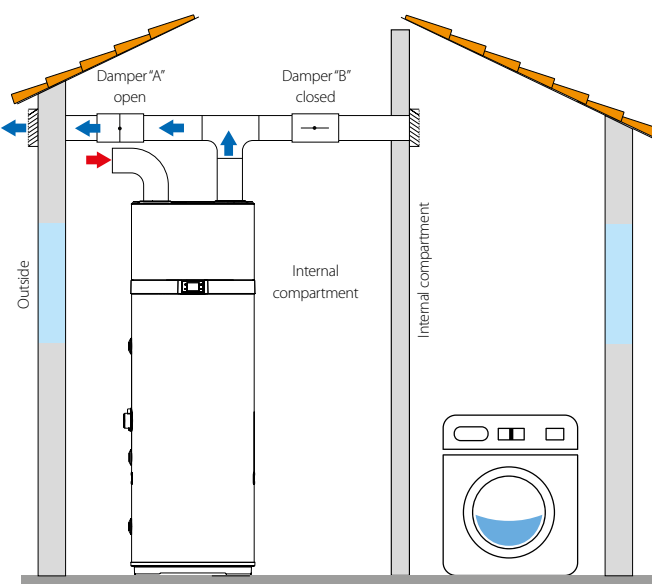


Fig. 4 - Example of installation in winter

Heat pumps

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 in a nutshell



Optimisation from Photovoltaic

When the icon on the display is on, the energy produced by the photovoltaic system is used to heat the water inside the tank.



Time slot-based operation

It lets you set the time and select the time slots to turn the heat pump on and/or off.



Anti-legionella sanitising

If this is turned on every two weeks, a heating/sanitising cycle of the water inside the tank is carried out at the set time by the heating element.



OFF-PEAK feature

When this icon on the display is on, the OFF-PEAK mode has been activated. When the electrical contact closes, the appliance operates during the time slot with the lower tariff.



Integrated Thermal Solar Control

When this icon on the display is on, the energy produced by the solar system is used to heat the water inside the tank (LT-S models).



Key lock on

The key lock is activated in any status, 60 seconds after any of the four keys on the user interface is pressed. This is to avoid potential interaction with the water heater, for example by children.



Defrosting on

Mode during which the Unit detects a defrosting temperature $\leq 1^{\circ}\text{C}$ and activates all the procedures to turn on the compressor, fan and pump in order to restore optimal operating conditions.



Holiday Mode

This mode is helpful when you need to go away for a limited period of time, after which you want to find the appliance operating in automatic mode.



Alarm

Signals a fault of the unit or the "active protection" status, during which the Unit stops as a protective measure after detecting a serious failure.



Operation with Heat Pump

With this mode, only the heat pump is used within the operating limits of the product to guarantee the highest possible energy savings.



Operation with heating element

With this mode, only the heating element is used within the operating limits of the product and is useful when the incoming air is cold.



Antifreeze protection

This protection prevents the water temperature inside the tank from reaching values close to zero. With the appliance in stand-by, when the water temperature inside the tank is below or equal to 5°C (setting available on the installer menu), this triggers the antifreeze protection, which turns on the heating element until the temperature reaches 12°C (setting available on the installer menu).



ON/OFF key

Used to turn the Unit on/off, set it to stand-by, activate the key lock and save edited settings.



SET key

Used to select the various features/operating modes, select the settings and confirm the edits.

The electronics, it couldn't be easier!





Daikin Altherma M HW's user interface has 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



Operating modes

To meet the widest range of needs, Daikin Altherma M HW has 5 different operating modes:

Renewable energy only		
Eco mode	HP	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).
Renewable energy as the preferred option		
Auto mode	HP + 	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	 +  Flashing	Daikin Altherma M HW simultaneously operates as a heat pump and with the additional heater. Setpoint can be up to 75°C.
Electrical energy only		
Electric mode		Daikin Altherma M HW only works with the additional heater. Set point can be up to 75°C.
Air recirculation only		
Fan mode	FAN	Daikin Altherma M HW only works in ventilation mode. The heat pump and additional heater are off.



Alarm

Heat pump

Heating element on

Defrost

Antifreezing

Legionella control



Key lock

Time slots

Photovoltaic

Thermal solar / hot water

Holiday

Off-peak

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-PCV3)
- › Suitable for warm climate (EKHLE-CV3)



A+

Indoor unit				EK	HHE200CV3	HHE260CV3	HHE200PCV3	HHE260PCV3	HLE200CV3	HLE260CV3
Heat up time	Max.		hh:mm		08:17 / 06:01	10:14 / 07:39	08:17 / 06:01	10:14 / 07:39	07:16 / 09:01	09:44 / 11:38
COP					3.23 / 3.49	3.38 / 3.59	3.23 / 3.49	3.38 / 3.59	2.8 / 2.5	3.1 / 2.6
Domestic hot water	Output	Nom	kW		1.82				1.60	
Equivalent hot water	Max		l		192	250	187	247	192	250
Dimensions	Unit	Height	mm		1,607	1,892	1,607	1,892	1,607	1,892
		Diameter	mm		Top: 621, Bottom: 628					
Weight	Unit	Empty	kg		85	97	96	106	86	98
Installation place					Indoor					
IP class					IP24					
Refrigerant				Type	R-134a					
				GWP	1,430					
				Charge	TCO2Eq	1.43				
				Charge	kg	1				
Heat pump				Casing	Colour	White				
				Defrost method		Hot-gas			-	-
				Automatic defrost start	°C	-2			-	-
				System pressure	Max.	bar			7	
				Operation range	Ambient	Min.	°CDB	-7		
						Max.	°CDB	43		
				Power supply	Phase	1				
					Frequency	Hz			50	
					Voltage	V			230	
					Maximum running current	A			2.43	2.3
Tank				Integrated heating element power	Nom.	kW			1.5	
				Casing	Material	Enamel steel tank				
				Installation	Solar thermal connection possible	-	-	Yes	Yes	-
				Standing heat loss	W	63	71	63	71	60
				Power supply	Phase	1				
					Frequency	Hz			50	
					Voltage	V			230	
Domestic hot water heating				General	Declared load profile	L	XL	L	XL	L
					Water heating energy efficiency class	A+				
					Thermostat temperature setting	°C				
				Average climate	AEC (Annual electricity consumption)	kWh	758	1,203	758	1,203
					η _{wh} (water heating efficiency)	%	135	139	135	139
				Cold climate	AEC (Annual electricity consumption)	kWh	979	1,672	979	1,672
				Warm climate	AEC (Annual electricity consumption)	kWh	698	1,132	698	1,132
Sound power level				Domestic hot water heating	dBA	50			52	

Daikin Altherma M HW



Why choose a monobloc domestic hot water heat pump?

The high performance monobloc domestic hot water heat pump is a recent addition to the Daikin water heater range. Enhanced hot water comfort with quiet operation, easy handling, flexibility of installation and different integration possibilities. Perfect for renovation and new build.



High performance

- › Delivering high comfort hot water of temperatures up to 55 °C with the heat pump only
- › Among the most quiet with 53 dBA sound power and 36 dBA at 2 meters
- › High tapping rate L, XL for guaranteeing maximum domestic hot water flow
- › A+ seasonal energy efficiency



Easy to install and control

- › All components are built-in and ready to work
- › Compact sizes and low weight, which make it easily manoeuvrable through small doors and spaces
- › Easy connection, from top of the unit, maximizes placing possibilities
- › 3 easy operating modes, Eco – Auto – Boost, for your personal preferences



Renewable power

- › Produces domestic hot water by extracting energy from the outside air
- › For the 260 liter an extra coil possibility exists for solar water heating
- › The monobloc can be standard connected to a PV installation severely minimizing running costs



Year-round reliability

- › Total thermal power up to 3.4 kW ensures optimal hot water comfort
- › Wide operation range: down to -7 °C outside temperature with the heat pump unit, and below -7 °C with electrical heating element support
- › Guaranteed optimal comfort by heat pump up to 38 °C outside temperature



53 dB(A)

Sound power level



Daikin Altherma M HW

Enhanced hot water comfort

- › Quiet operation: with 36 dBA at 2 m, one of the most silent products in its kind
- › Easy handling: thanks to its compact size, it can easily pass through the doorway
- › Enhanced comfort: the 3 operating modes will give an answer to all your needs
- › Solar connectivity: empower your house with renewable energy
- › Wide operation range: down to -7 °C outside temperature with the heat pump, below -7 °C electrical heating element support



EKHH2E-AV3



011-1W0215 → 217



* max ECO cycle
** max Automatic cycle

Indoor unit				EKHH2E	2E200AV3(3)		2E260AV3(3)		2E260PAV3(3)		
Heat up time		Max.		hh:mm	08:17:00 (3) / 06:30:44 (4)		10:14:00 (3) / 07:56:46 (4)		10:14:00 (3) / 07:46:46 (4)		
COP					2.94 (1) / 3.30 (2)		3.10 (1) / 3.60 (2)				
Domestic hot water		Output	Nom	kW	1.8						
Equivalent hot water		Max		L	275		342				
Dimensions		Unit	Height	mm	1,714		2,004				
			Diameter	mm	650						
Weight		Unit	Empty	kg	83		95		112		
			Full	kg	282		349		358		
		Packed unit		kg	100		120		140		
Installation place					Indoor						
IP class					IP-X4						
Compressor		Type			Rotary non-inverter						
Refrigerant		Type			R-134a						
		GWP			1,430.0						
		Charge			TCO ₂ Eq		1.287				
Heat pump		Charge		kg	0.900						
		Casing	Colour	White body / Black top							
			Material	Cover: EPP top finishing							
		Defrost method			Active with hot gas valve						
		Automatic defrost start			-2						
		System pressure		Max.	bar	7					
		Operation range	Ambient	Min.	°CDB	-7					
				Max.	°CDB	38					
Tank		Integrated heating element power		Nom.	kW	1.5					
		Casing	Colour	White							
			Material	Embossed ABS							
		Dimensions	Unit	Height	mm	1,210		1,500			
		Operation range	Water side	Min.	°C	10					
				Max.	°C	56					
		Installation	Solar thermal connection possible				-				1
		Standing heat loss			W	60		70		71	
Domestic hot water heating		General	Declared load profile			L		XL			
			Water heating energy efficiency class			A+					
			Thermostat temperature setting			°C 55					
		Average climate	AEC (Annual electricity consumption)		kWh	835		1,323			
			η wh (water heating efficiency)			%	123		117		
		Cold climate	AEC (Annual electricity consumption)		kWh	1,091		1,826			
		Warm climate	η wh (water heating efficiency)				%	94		92	
		AEC (Annual electricity consumption)		kWh	756		1,296				
		η wh (water heating efficiency)				%	135		129		
Sound power level		Domestic hot water heating		Indoor unit	dBA	53					
Heat pump		Power supply	Phase		1P						
			Frequency		Hz 50						
			Voltage		V 230						
			Maximum running current		A 2.4						
Tank		Power supply	Phase		1P						
			Frequency		Hz 50						
			Voltage		V 230						

(1) Temperature of incoming air supply = 7 °C, temperature of boiler storage environment = 20 °C, water heated from 10 °C to 55 °C (according to UNI EN 16147-2011). (2) Temperature of incoming air supply = 15 °C, temperature of boiler storage environment = 20 °C, water heated from 10 °C to 55 °C (according to UNI EN 1614 7-2011). (3) Indoor temperature : 29 °CDB, 19 °CWB; outdoor temperature : 46 °CDB, 24 °CWB. (4) Indoor temperature : 27 °CDB, 19 °CWB; outdoor temperature : 35 °CDB, 24 °CWB.

This product contains fluorinated greenhouse gases.

Daikin Altherma R HW

Why choose a split domestic hot water heat pump?

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

✓ Comfort

Fresh water principle

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

Easy installation

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

✓ Reliability

- › Electrical backup (2.5 kW) ensures hot water under all circumstances; the 500 L tank can also be equipped with an external hydraulic backup
- › The ECH₂O thermal store is engineered to provide you with fresh, healthy and safe hot water
- › By just using the heat pump, the temperature of the water can reach up to 55 °C and its production is guaranteed down to -15 °C outside temperature

✓ Energy efficiency

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



Polypropylene casing, resistant to corrosion and shocks

Stainless steel heat exchanger for hot water production

Polyurethane insulation of 5 cm to 8 cm

Daikin Altherma R HW

Hot water in an efficient way

- › Domestic hot water is heated almost immediately
- › Combine it with solar heating for even better energy efficiency
- › Easy installation: no water tank pressure and only limited pressure in the heat exchanger
- › Low maintenance: no anode means no scale and lime deposits or corrosion
- › Electrical back-up (2.5 kW) ensures hot water under all circumstances. The 500 L tank can also be equipped with an external hydraulic back-up

A⁺

55 °C

R-410A

Efficiency data		EKHHP + ERWQ		300A2V3 + 02AV3	500A2V3 + 02AV3
Domestic hot water heating	General	Declared load profile		L	XL
	Average climate	η _{wh} (water heating efficiency)		119	124
		Water heating energy efficiency class		A+	
COP				4.30 (1)	
Indoor Unit		EKHHP		300A2V3	500A2V3
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)	
Dimensions	Unit	Height x Width x Depth	mm	1,772 x 595 x 615	1,778 x 790 x 790
Weight	Unit		kg	70	80
Tank	Water volume		L	294	477
	Maximum water temperature		°C	85	
Operation range	Domestic	Ambient	Min.~Max.	2~35	
	hot water	Water side	Min.~Max.	5~55	
Refrigerant	Type			R-410A	
Outdoor Unit		ERWQ		02AV3	02AV3
Dimensions	Unit	Height x Width x Depth	mm	550 x 765 x 285	
Weight	Unit		kg	35	
Compressor	Quantity			1	
	Type			Hermetically sealed swing compressor	
Operation range	Domestic hot water	Min.~Max.	°CDB	-15~35	
Refrigerant	Type			R-410A	
	GWP			2,087.5	
	Charge		kg	1.05	
	Charge		TCO ₂ Eq	2.2	
Sound pressure level	Heating	Nom.	dBA	47	
	Cooling	Nom.	dBA	47	
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230	

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



Daikin Altherma R Flex Type HT HW

Why choose a Daikin Altherma HT Flex Type?

Daikin Altherma HT Flex Type is 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



Outdoor Unit				EMRQ	8AB	10AB	12AB	14AB	16AB
Heating capacity	Nom.			kW	22.4 (1)	28 (1)	33.6 (1)	39.2 (1)	44.8 (1)
 Seasonal efficiency	Domestic hot water heating	General Average climate	Declared load profile η _{wh} (water heating efficiency) Water heating energy efficiency class		XL				
					93			83.7	93
					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	10.3	10.6	10.8	11.1
					TCO ₂ eq	21.5	22.1	22.5	23.2
Piping connections	Liquid	OD		mm	9.52			12.7	
	Suction	OD		mm	19.1	22.2	28.6		
	High and low pressure gas	OD		mm	15.9	19.1		22.2	
	Piping length	OU - IU	Max.	m	100				
		System	Equivalent	m	120				
	Total piping length	System	Actual	m	300				
Sound power level	Heating	Nom.		dBA	78		80	83	84
Sound pressure level	Heating	Nom.		dBA	58		60	62	63
Power supply	Phase/Voltage			V	3~/380-415				
Current	Recommended fuses			A	20	25		40	

(1) Condition: Ta=7 °CDB/6 °CWB, 100% connection ratio
(2) Contains fluorinated greenhouse gases

Indoor Unit				EKHBRD	011ADV17	014ADV17	016ADV17	011ADY17	014ADY17	016ADY17
Casing	Colour				Metallic grey					
	Material				Precoated sheet metal					
Dimensions	Unit	Height x Width x Depth		mm	705 x 600 x 695					
Weight	Unit			kg	144			147		
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB	-20.0~35.0					
		Water side	Min.~Max.	°C	25~80					
Refrigerant	Type				R-134a					
	Charge				kg	2.60				
					TCO ₂ eq	3.718				
						1,430				
Sound pressure level	Nom.			dBA	43.0 / 46.0 / 0.00 / 0.00	45.0 / 46.0 / 0.00 / 0.00	46.0 / 46.0 / 0.00 / 0.00	43.0 / 46.0 / 0.00 / 0.00	45.0 / 46.0 / 0.00 / 0.00	46.0 / 46.0 / 0.00 / 0.00
	Night quiet mode	Level 1		dBA	40 / 0 / 0	43 / 0 / 0	45 / 0 / 0	40 / 0 / 0	43 / 0 / 0	45 / 0 / 0

This product contains fluorinated greenhouse gases.

Options

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

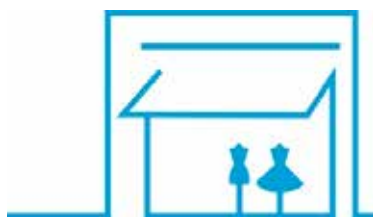


With the expanded Daikin Altherma high capacity range we now offer the ideal solutions for all high demanding systems. Ideal for collective housing, hotels, swimming pools which require high comfort and high reliability.

Why choose a Daikin Altherma R Flex Type?

✓ Strong and reliable

- › Equipped with air-to-water heat pump technology to extract the outdoor air for energy
- › COP possible up to 3.07/A+ at Ta DB/WB 7/6°C - LWC 45°C
- › Reversible, enhanced cooling capacity
- › External control possible



✓ Collective/commercial advantage


- › Cascade heating capacity up to 62,7 kW
- › Cascade cooling up to 63,3 kW
- › VRV technology ensures high efficiencies and reliable working
- › Compact model for easy installation and fit for smaller spaces



Daikin Altherma R Flex Type

- › Hydronic module for indoor installation eliminating the need for glycol
- › Ideal for colder climates as the lack of glycol will allow for high efficiency
- › Compact dimensions and limited pipework allow for installation in very restricted spaces
- › Easy transportation as separate units will fit in an elevator



Heating & Cooling					SEHVX20BAW/ SERHQ020BAW1	SEHVX32BAW/ SERHQ032BAW1	SEHVX40BAW/ SERHQ020BAW1+SERHQ020BAW1	SEHVX64BAW/ SERHQ032BAW1+SERHQ032BAW1
Cooling capacity	Nom.			kW	21.2 (1)	31.8 (1)	42.3 (1)	63.3 (1)
Heating capacity	Nom.			kW	20.8 (2)	31.2 (2)	41.7 (2)	62.7 (2)
Power input	Cooling	Nom.		kW	7.47 (1)	12.7 (1)	15.1 (1)	25.5 (1)
	Heating	Nom.		kW	6.76 (2)	10.6 (2)	13.7 (2)	21.4 (2)
EER					2.84	2.5	2.8	2.48
COP					3.07	2.93	3.03	2.93
Space heating	Average climate	General	SCOP	%	3.93	3.53	3.80	3.53
	Average climate water outlet 35 °C	General	ns (Seasonal space heating efficiency)		154	138	149	138
			Seasonal space heating eff. class		A++	A+		
Unit for indoor installation					SEHVX20BAW	SEHVX32BAW	SEHVX40BAW	SEHVX64BAW
Dimensions	Unit	Height		mm	1,573			
		Width		mm	766			
		Depth		mm	396			
Weight	Unit			kg	97.0	105	137	153
Water side Heat exchanger	Packed unit			kg	109	117	149	165
	Type				Brazed plate			
	Water volume			L	3	5	6	9
	Water flow rate	Cooling	Nom.	l/min	60 (3)	90 (3)	120 (3)	181 (3)
Sound power level				l/min	60 (2)	90 (2)	120 (2)	181 (2)
	Nom.			dB(A)	63		66	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~43			
		Water side	Min.~Max.	°CDB	5 (4)~20			
	Heating	Ambient	Min.~Max.	°CDB	-15~35			
		Water side	Min.~Max.	°CDB	25~50			
Refrigerant	Type / GWP				R-410A / 2,087.5			
	Circuits	Quantity			1		2	
Water circuit	Control				Electronic expansion valve			
	Piping connections diameter			inch	1-1/4" (female)		2" (female)	
	Piping			inch	1-1/4"		1-1/2"	
	Water pressure	Cooling	Nom.	kPa	17 (7)	24 (7)	19 (7)	29 (7)
Total water volume				L	4.2 (8)	5.8 (8)	7.9 (8)	11.0 (8)
Power supply	Phase/Frequency/Voltage				Hz/V			
					3N~/50/400			
Outdoor Unit					SERHQ020BAW1		SERHQ032BAW1	
Dimensions	Unit	Height		mm	1,680			
		Width		mm	765			
		Depth		mm	930		1,240	
Weight	Unit			kg	240		316	
	Packed unit			kg	273		356	
Compressor	Quantity				2		3	
Fan	Type				Hermetically sealed scroll compressor			
	Type				Axial			
	Quantity				1		2	
Air flow rate	Cooling	Nom.	m³/min		185		233	
	Heating	Nom.	m³/min		185		233	

(1) Cooling: entering evaporator water temp. 12 °C; leaving evaporator water temp. 7 °C; ambient air temp. 35 °C (2) Condition: Ta DB/WB 7 °C/6 °C - LWC 45 °C (Dt=5 °C) (3) Condition: Ta 35 °C - LWE 7 °C (DT = 5 °C) (4) Water can be used above 5 °C. Between 0 °C and 5 °C a 30% glycol solution (propylene or ethylene) has to be used. Between 0 °C and -10 °C a 40% glycol solution (propylene or ethylene) has to be used (see installation manual and information related to OPZL option) (5) Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info. (6) Excluding the water volume in the unit. This volume will guarantee sufficient defrost energy for all applications, however, this volume can be multiplied by 0.66 if the heating setpoint is ≥ 45 °C (eg. Fan coils) (7) This is PD between inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop. (8) Including piping + PHE; excluding expansion vessel. 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.



Heat pumps



Daikin Altherma HPC provides heating or cooling for living rooms.

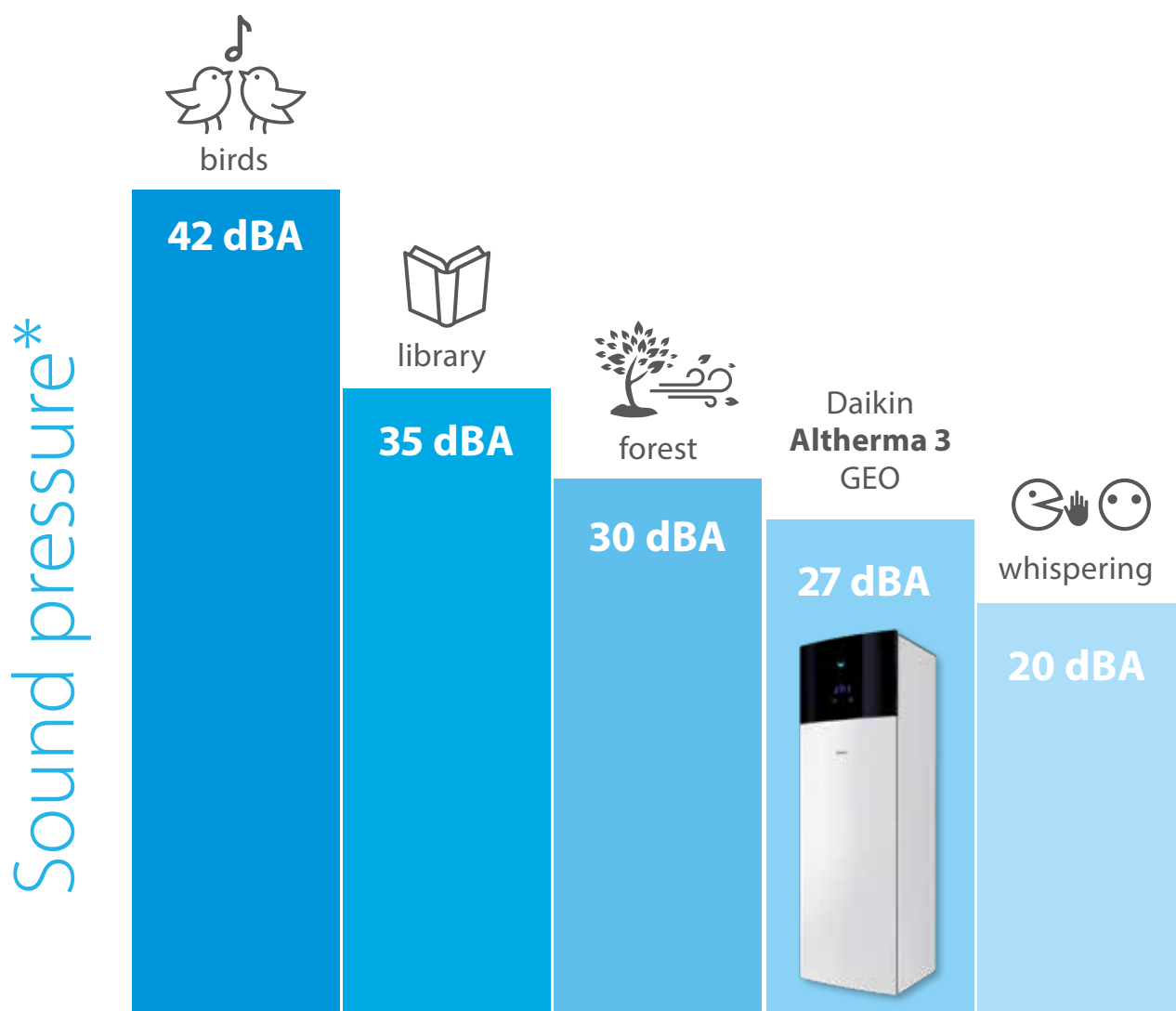
An 80-100 metre borehole in the ground creates a constant inlet temperature.

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



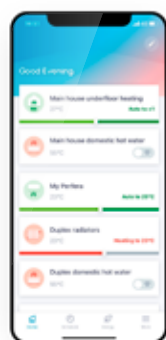
*at 1 meter.



Built-in connectivity

Control your home climate from any place, at any time

Daikin Residential Controller app



Monitor



Control



Schedule

Always in control.

Control your climate from any place, at any time.



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, redesigned and intuitive.

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



BRC1HHDW



BRC1HHDS



BRC1HHDK



Groundbreaking innovation

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

All pipe connections on top,
paired in and out



Standard electrical
connections pre-cabled



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



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 an USB stick and download it directly into the unit.

Easy operation

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

Beautiful design

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

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



A+++



A+

65 °C

R-32



011-1W0337
011-1W0338

Indoor Unit				EGSA	H06D9W		X06D9W(G)		H10D9W		X10D9W(G)	
Heating capacity	Min.		kW				0.85					
	Nom.		kW				3.35				5.49	
	Max.		kW				7.98				9.55	
Power input	Nom.		kW				0.74				1.17	
COP							4.51				4.70	
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	141	143		152		154		
						A++		A+++				
	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	195	199		197		200		
								A+++				
Domestic hot water heating	General	Declared load profile					L					
	Average climate	ηwh (water heating efficiency)			%		117					
		Water heating energy efficiency class					A+					
Space cooling	Medium temperature application	General	SEER		-	15		-		15		
			Pdesign	kW	-	8		-		8		
	Low temperature application	General	SEER		-	14		-		14		
			Pdesign	kW	-	8		-		8		
Casing	Colour			White or Silver-grey								
	Material			Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth		mm	1,891x597x666							
Weight	Unit				222							
Tank	Water volume			l	180							
	Insulation		Heat loss	kWh/24h	1.2							
	Corrosion protection				Pickling							
	Installation space		Min.~Max.	°C	5 / 35							
Operation range	Brine side		Min.~Max.	°C	-10 / 30							
	Heating	Water side	Min.~Max.	°C	5 / 65							
	Domestic hot water	Water side	Min.~Max.	°C	25 / 60							
Refrigerant	Type				R-32							
	GWP				675							
	Charge				1.70							
	Charge	TCO2Eq			1.15							
Sound power level	Nom.				39.0						41.0	
Sound pressure level at 1 meter	Nom.				27.0						29.0	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	3~/50/400 or 1~/50/230							
Current	Recommended fuses			A	3P 16A or 1P 32A							

Options

	Type	Material name
Controls	Remote user interface	BRC1HHDW/S/W
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKTR1
	Cascade control	EKCC8-W
Adapter	Gateway	DCOM-LT/IO
	Gateway	DCOM-LT/MB
	Demand PCB	EKRP1AHTA
Sensor	Digital I/O PCB	EKRP1HBAA
	Remote indoor sensor	KRCS01-1
	External sensor	EKRTETS
	Reduce power limitation sensor	EKCSSENS
Others	PC cable	EKPPCAB4
	Ground source filling kit	KGSFILL2
	Hydromodule replacement	EKGSYDMOD
	Separate power supply BUH	EKGSPWCAB
	Magnetic filter Fernox	KFERNOXTF1
	Magnetic filter Fernox	KFERNOXTF1FL

Daikin Altherma GEO

Ground source heat pump for heating & hot water

- › Ground source heat pump technology uses stable geothermal energy, unaffected by the outside temperature
- › Highest seasonal efficiency thanks to our inverter heat pump technology
- › Quick and easy installation thanks to factory-fitted piping on top of the unit and reduced overall weight
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › User interface with thermostat function for higher comfort, quick commissioning, easy servicing and energy management to control energy consumption and costs



EGSQH-A9W



011-1W0067

Indoor Unit		EGSQH		10S18A9W	
Heating capacity	Min.		kW	3.11 (1) / 2.47 (2)	
	Nom.		kW	10.30 (1) / 9.20 (2)	
	Max.		kW	13.00 (1) / 11.90 (2)	
Power input	Nom.		kW	2.38 (1) / 2.89 (2)	
COP				4.33 (1) / 3.18 (2)	
Casing	Colour			White	
	Material			Precoated sheet metal	
Dimensions	Unit	Height/Width/Depth	mm	1,730/600/728	
Weight	Unit		kg	210	
Tank	Water volume		l	180	
	Insulation	Heat loss	kWh/24h	1.36	
	Corrosion protection			Anode	
Refrigerant	Type			R-410A	
	Charge		kg	1.80	
			TCO ₂ eq	3.76	
	Control			Electronic expansion valve	
	GWP			2,087.5	
Sound power level	Nom.		dBA	46	
Sound pressure level	Nom.		dBA	32 (3)	
Power supply	Name/Phase/Frequency/Voltage		Hz/V	9W/3~/50/400	
Current	Recommended fuses		A	25	
Domestic hot water heating	General	Declared load profile		L	
	Average climate	η _{wh} (water heating efficiency)	%	93.1	
		Water heating energy efficiency class		A	
Space heating	Average climate water outlet 55°C	General	η _s (Seasonal space heating efficiency)	%	139
			Seasonal space heating eff. class		A++
	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%	194
			Seasonal space heating eff. class		A+++

(1) EWB/LWB 0°C/-3°C - LWC 35°C (DT=5°C) (2) EWB/LWB 0°C/-3°C - LWC 45°C (DT=5°C) (3) The sound pressure level is measured via a microphone at a 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment.

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.

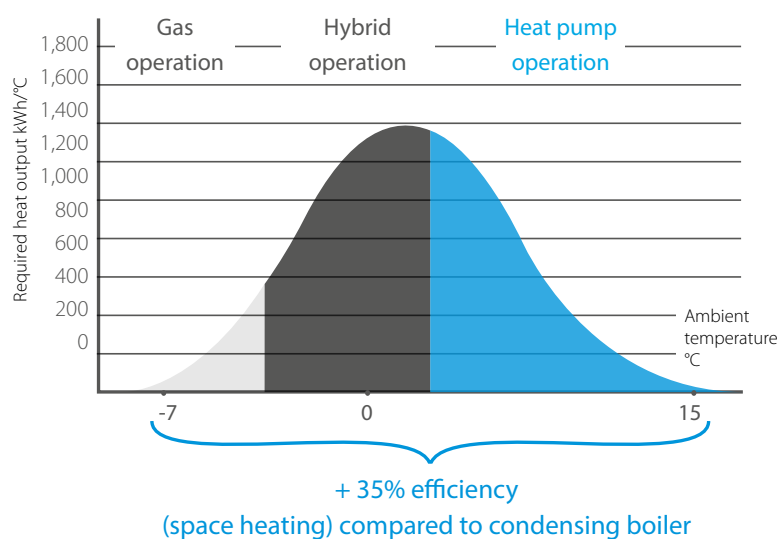
Comfort

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

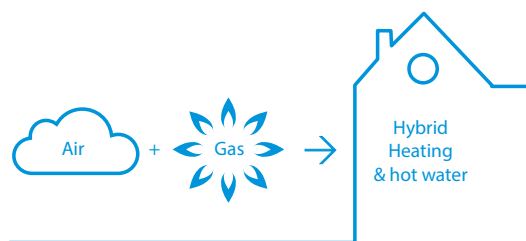
Illustration of an average European climate



- › 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 integrates seamlessly with underfloor heating or radiators.

Quick and easy installation

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

Investment benefits

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



✓ Energy efficiency

The ideal combination

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

Supported by renewable energy

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

Hot water produced with gas condensing technology

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

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

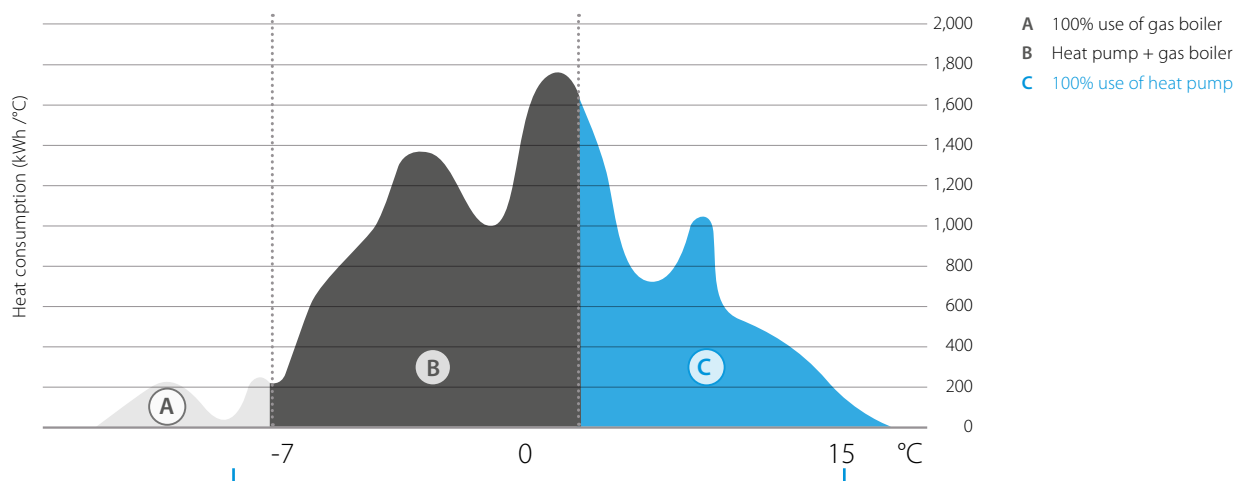
✓ Reliability

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



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

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



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

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

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-IW0313
011-IW0314



A++



A

55 °C

R-410A

Heat pumps

Efficiency data				EHYHBH05AV32 + EVLQ05CV3	EHYHBH08AV32 + EVLQ08CV3	EHYHBX08AV3 + EVLQ08CV3
Space heating	Average climate water outlet 55 °C	General	SCOP η _{sp} (Seasonal space heating efficiency)	3.28 128	3.24 127	3.29 129
			Seasonal space heating eff. class	A++		
Domestic hot water heating	Average climate	General	Declared load profile	XL		
			η _{wh} (water heating efficiency)	83.8		
Heating capacity	Nom.		Water heating energy efficiency class	A		
Cooling capacity	Nom.			4.40(1) / 4.03(2)	7.40(1) / 6.89(2)	7.40(1) / 6.89(2)
Power input	Heating	Nom.		0.870(1) / 1.13(2)	1.66(1) / 2.01(2)	1.66(1) / 2.01(2)
	Cooling	Nom.				2.01(1) / 2.34(2)
COP				5.04(1) / 3.58(2)	4.45(1) / 3.42(2)	4.45(1) / 3.42(2)
EER						3.42(1) / 2.29(2)

Indoor unit (Hydrobox & Boiler)				EHYHBH05AV32	EHYHBH08AV32	EHYHBX08AV3	EHYKOMB33AA2	EHYKOMB33AA3
Central heating	Heat input Q _h (net calorific value)	Nom	Min/Max	-				
	Output P _h at 80/60 °C	Min/Nom		-				
	Efficiency	Net calorific value		-				
	Operation range	Min/Max		-				
Domestic hot water	Output	Min/Nom		-				
	Water flow	Rate	Nom	-				
	Operation range	Min/Max		-				
				-				
Gas	Connection	Diameter		-				
	Consumption (G20)	Min/Max		-				
	Consumption (G25)	Min/Max		-				
	Consumption (G31)	Min/Max		-				
Supply air	Connection			-				
	Concentric			-				
Flue gas	Connection			-				
Casing	Colour			White				
	Material			Precoated sheet metal				
Dimensions	Unit	Height x Width x Depth	Casing	902 x 450 x 164				
Weight	Unit	Empty		30.0	31.2		36	
Power supply	Phase/Frequency/Voltage			-				
Electrical power	Max.			-				
consumption	Standby			-				
Operation range	Heating	Ambient	Min.~Max.	-25 ~25				
		Water side	Min.~Max.	25 ~55				
	Cooling	Ambient	Min.~Max.	~~~				
		Water side	Min.~Max.	~~~				

Outdoor unit				EVLQ05CV3	EVLQ08CV3
Dimensions	Unit	Height x Width x Depth	mm	735 x 832 x 307	
Weight	Unit		kg	54	56
Compressor	Quantity			1	
	Type			Hermetically sealed swing compressor	
Operation range	Heating	Min.~Max.	°CWB	-25~25	
Refrigerant	Type			R-410A	
	GWP			2,088	
	Charge		kg	1.5	1.6
	Charge		TCO ₂ Eq	3.0	3.3
	GWP			2,088	
Sound power level	Heating	Nom.	dBA	61	62
Sound pressure level	Heating	Nom.	dBA	48	49
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230	
Current	Recommended fuses		A	16	20

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

(4) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C).

This product contains fluorinated greenhouse gases.

Daikin Altherma R Hybrid

+ multi



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

→ Multi features


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

Control with Daikin Residential Controller app



BLUEEVOLUTION

CONNECTABLE INDOOR UNITS	Wall mounted																								Concealed ceiling						Floor standing						Round flow			Fully flat			Ceiling suspended			Concealed floor standing			Hybrid heat pump			
	FTXA-AW/S/T						CTXM-R		FTXM-R						FTXJ-M			FTXP-M9			FDXM-F9			FBA-A9			CVXM-A		FVXM-A			FVXM-F			FCAG-B			FFA-A9			FHA-A9			FNA-A9			CHYHBH-AV32					
	15	20	25	35	42	50	15	20	25	35	42	50	60	71	20	25	35	50	20	25	35	25	35	50	60	35	50	60	20	25	35	50	25	35	50	60	25	35	50	60	35	50	60	25	35	50	60	05	08			
3MXM52N8	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
3MXM68N9	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4MXM68N9	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4MXM80N9	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
5MXM90N9	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●







Efficiency data				CHYHBH05AV32 /3MXM52N8	CHYHBH05AV32 /3MXM68N9	CHYHBH05AV32 /4MXM68N9	CHYHBH05AV32 /4MXM80N9	CHYHBH08AV32 /4MXM80N9	CHYHBH05AV32 /5MXM90N9	CHYHBH08AV32 /5MXM590N9
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)	4.17 (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		902x450x164			
Weight	Unit	kg			30.0			
Operation range	Heating	Ambient	Min.~Max.	°C	-15 ~24			
		Water side	Min.~Max.	°C	25 ~50			

Indoor unit (Boiler)				EHYKOMB33AA2/AA3				
Central heating	Heat input Q _n	Nom	Min/Max	kW	6.2 / 7.6 / 7.6 / 22.1 / 27.0 / 27.0			
	(net calorific value)							
	Output P _n	Min/Nom		kW	6.7 / 8.2 / 8.2 / 21.8 / 26.6 / 26.6			
	at 80/60°C							
Domestic hot water	Efficiency	Net calorific value			98 / 107			
	Operation range	Min/Max		°C	15 / 80			
	Output	Min/Nom		kW	7.6/32.7			
	Water flow	Rate	Nom	l/min	9.0 / 15.0			
	Operation range	Min/Max		°C	40/65			
	Gas	Connection	Diameter			15		
Consumption		Min/Max		m³/h	0.78/3.39			
(G20)								
Consumption		Min/Max		m³/h	0.90/3.93			
(G25)								
Consumption		Min/Max		m³/h	0.30/1.29			
(G31)								
Supply air	Connection				100			
	Concentric				1			
Flue gas	Connection				60			
Casing	Colour				White - RAL9010			
	Material				Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	710x450x240			
Weight	Unit	Empty		kg	36			
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			
Electrical power consumption	Max.				55			
	Standby				2			

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	EKGF1A
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



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.

BLUEEVOLUTION

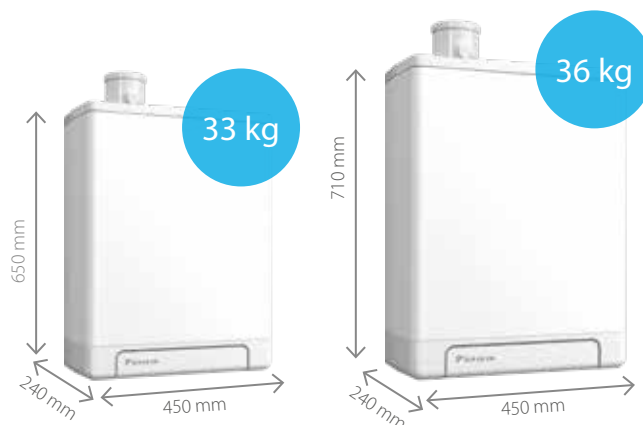
The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

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.



Heat pumps

Controllers

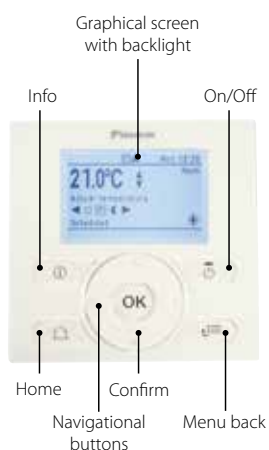
EKRUHML1/2

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



Daikin Residential Controller app



The Daikin Residential Controller app is a multifaceted programme that allows customers to control and monitor the status of their heating system.

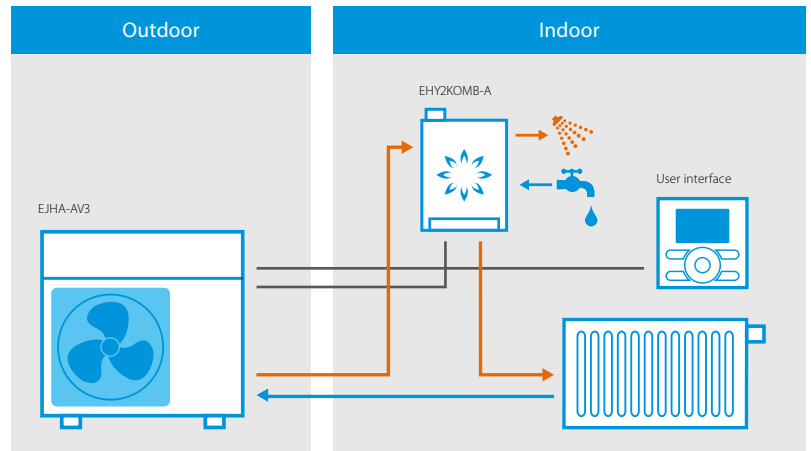


Control your heating system with your voice

Applications

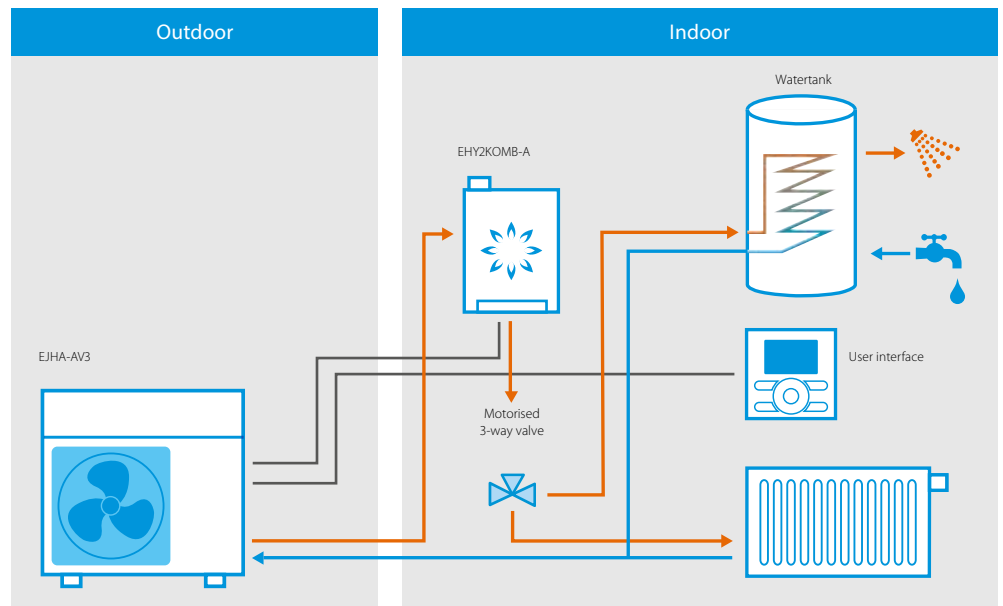
1. Standard Hybrid operation

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.



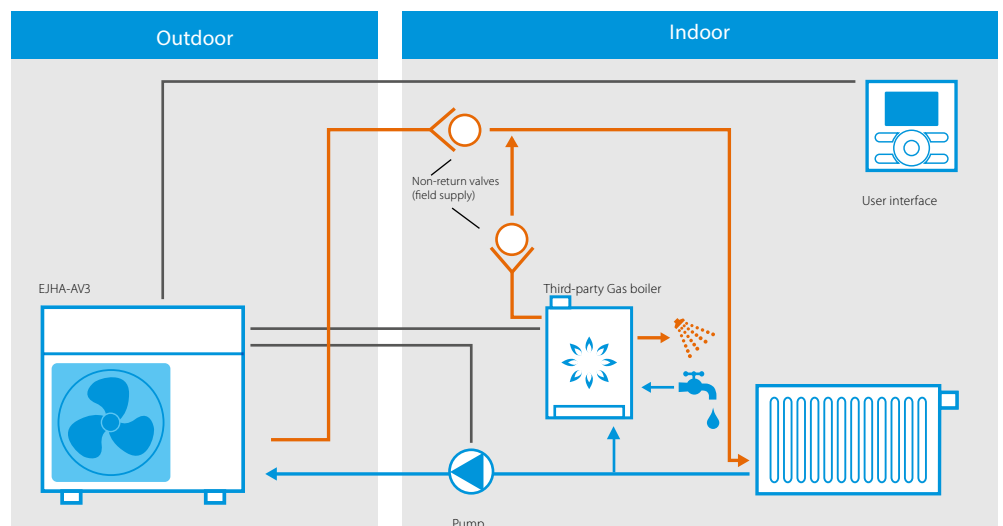
1.1 Standard Hybrid operation with a tank

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






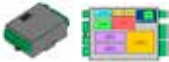
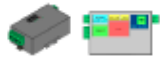







011-1W0293

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	7.1 / 23.7		7.6 / 27.0	
	Output P _n at 80/60 °C	Nom		kW	23.1		26.6	
	Efficiency	Net calorific value 80/60		%	98		99	
	Efficiency	Net calorific value 37/30 (30%)		%		108		
	Operation range	Min/Max		°C		30 / 90		
Domestic hot water	Output	Min/Nom		kW	7.2 / 29.1		7.6 / 32.7	
	Water flow	Rate 40/10 °C		l/min	12.5		15.0	
	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 Casing	Connection			mm		60		
	Colour					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 consumption	Max.			W		110		
	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		-15~25		
Refrigerant	Type					R-32		
	GWP					675		
	Charge			kg		0.56		
	Charge			TCO ₂ Eq		0.38		
Sound power level	Heating		Nom.	dBA		58.7		
Sound pressure level	Heating		Nom.	dBA		37		
Power supply	Name/Phase/Frequency/Voltage			Hz/V		V3/1~/50/220-240		
Current	Recommended fuses			A		20		

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

This product contains fluorinated greenhouse gases.

Options - system












Group		Description	Material name	 	
				Pair Hybrid	Add-on Hybrid
Controllers		User interface: English – Dutch – Italian – French	EKRUHML1	•	•
		User interface: English – Dutch – Italian – German	EKRUHML2	•	•
		Gateway 1: I/O version	DCOM-LT/IO ⁽²⁾	•	•
		Gateway 2: Modbus version	DCOM-LT/MB ⁽²⁾	•	•
		LAN + PV Solar (installation box EKBRPA6 available)	BRP069A61	•	•
		LAN only (installation box EKBRPA6 available)	BRP069A62	•	•
		Wired room thermostat	EKRTWA	•	
		Wireless room thermostat	EKRTR1	•	
Sensor		External room sensor	EKRTETS ⁽⁴⁾	•	
		Remote outdoor sensor	EKRSCA1 ⁽³⁾	•	•
Other		Thermistor kit for pressurised tanks & 3rd party tank	EKTH3	•	
		Thermistor kit for pressureless tanks	EKTH4	•	
		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	EKDVCPJT3HX	•	
		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. Both the GCU compact and Wall Mounted Boiler provide end users with reliable performance and efficient heating and hot water.



Comfort

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

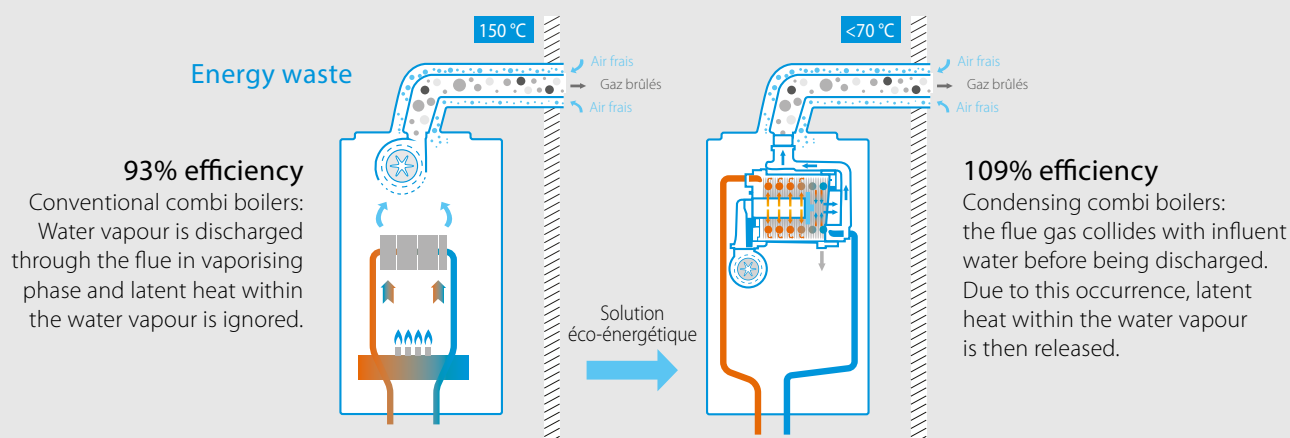
Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NO_x and CO, to ensure high cost savings and environmentally-friendly operation.



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

Most compact

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



Flexible in use

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

Modulation 1:8

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

Daikin eye

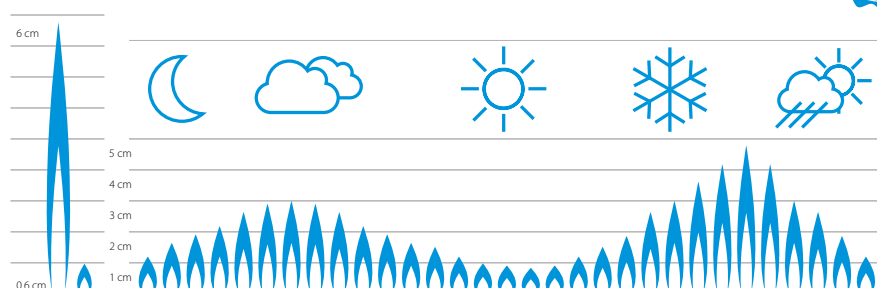
Monitor the operating status of your combi boiler with the Daikin Eye.

Unique interface

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

✓ High modulation rate

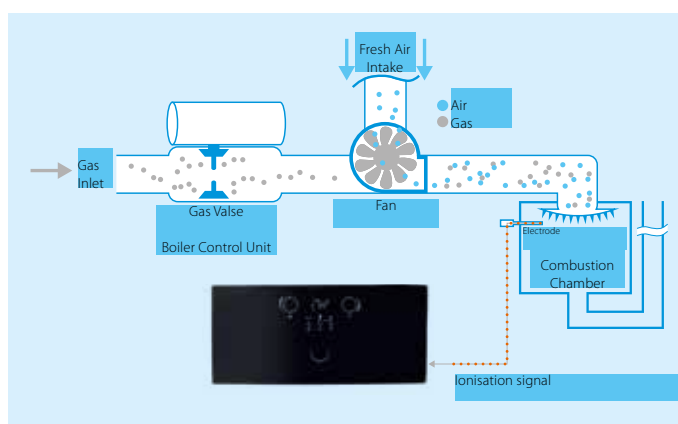
The opportunity to adjust the burner power ensures the seamless and continuous operation of the device. Smooth functioning of the system means increased comfort, a low risk for system failure and the ability to neutralise harmful substance emissions that may occur during ignition. Modulation is also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





✓ Lambda Gx: automatic gas adaptation system

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



Boilers

✓ 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 wholes 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



reddot award 2018
winner

Occupies only
0.06 m³

590 mm

27 kg

256 mm

400 mm

690 mm

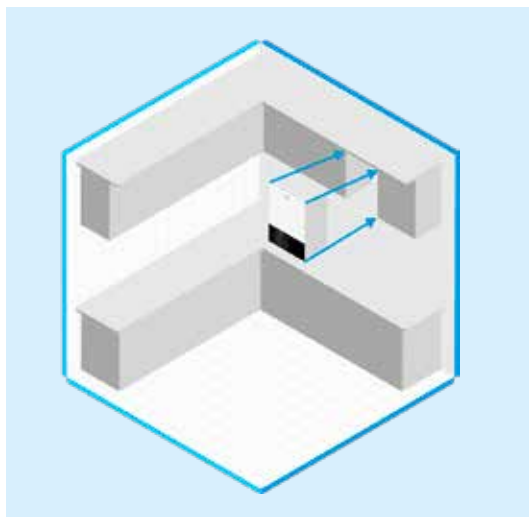
37 kg

295 mm

440 mm

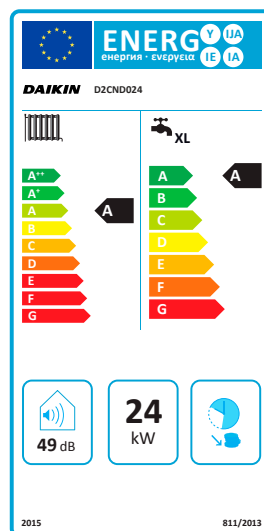
Easy installation & maintenance

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



High energy class

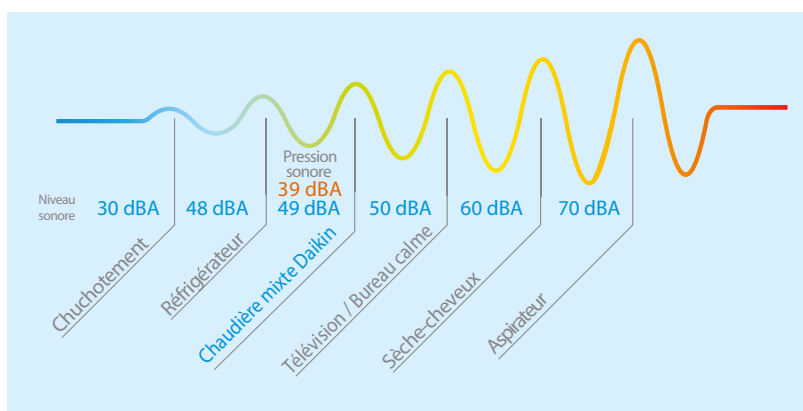
Energy Class A adheres to European ERP Standards.



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 heating 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.



Daikin Residential Controller 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 108%
- › 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 Nom (net calorific value)		Min/Max	kW	2.9/11.2	2.9/17.0	2.9/23.5	4.8/27	4.8/34	2.9/23.5	4.8/27	4.8/34	
	Heat input Qn (gross calorific value)		Nom	Min/Max	kW	3.2/12.4	3.2/18.9	3.2/26.1	5.3/30	5.3/37.8	3.2/26.1	5.3/30	5.3/37.8
	Output Pn at 80/60 °C		Min/Nom		kW	2.8/10.9	2.8/16.6	2.8/22.8	4.6/26.3	4.6/33.2	2.8/22.8	4.6/26.3	4.6/33.2
	Output Pnc at 50/30 °C		Min/Nom		kW	3.1/12.0	3.1/18.0	3.1/24.0	5.2/28.2	5.2/35	3.1/24.0	5.2/28.2	5.2/35
	Water pressure (PMS)	Max		bar	3								
	Water temperature	Max		°C	100								
	Efficiency	Net calorific value			%	98.6	98.2	97.9	98.2	97.9	-	-	
	Operation range	Min/Max			°C	30/80							
	Piping connections					19 (3/4") Male							
	Domestic hot water	Heat input Qnw (net calorific value)		Nom	Min/Max	kW	2.9/11.2	2.9/17.0	2.9/23.5	4.8/29.5	4.8/34	2.9/23.5	4.8/29.5
Heat input Qnw (gross calorific value)		Nom	Min/Max	kW	3.2/12.4	3.2/18.1	3.2/26.1	5.3/32.7	5.3/37.7	3.2/26.1	5.3/32.7	5.3/37.7	
Domestic hot water threshold			L/min	-									
Temperature			°C	50									
Operation range			°C	35/60									
Piping connections				mm	19 (3/4") Male								
Connection diameter for heat flow and return				mm	12.7 (1/2") Male								
Gas	Connection diameter			mm	19 (3/4") Male								
	Gas connection diameter			mm	19 (3/4") Male								
	Consumption (G20)		Min/Max	m³/h	0.31/1.18	0.31/1.80	0.31/2.48	0.51/2.89	0.51/3.63	0.31/2.48	0.51/2.89	0.51/3.63	
	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		0.2/1.1	0.2/1.38	0.12/0.96	0.2/1.1	0.2/1.38	
Supply air	Connection			mm	100								
	Concentric				1								
Flue gas	Connection			mm	60								
Space heating	General	ns (Seasonal space heating efficiency)		%	93								
		Seasonal space heating eff. class			A								
		Declared load profile			-								
Domestic hot water heating	General	ηwh (water heating efficiency)		%	-								
		Water heating energy efficiency class			-								
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						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		86	92	112
	Standby			W	3.5				2.7		3.5	2.7	

Options

Category		Description	Material Nr
Controllers		Outdoor sensor	150042
		Solar Temperature Sensor	DRSLRTESENSAA
		Daikin OT+ room thermostat	DOTROOMTHEAA
		Communication gateway	DRGATEWAYAA
System control - Cascade		Cascade Controller (E8.5064 V1)	DRCASCACONTAA
		Zone Controller (E8.1124)	DRZONECCONTAA
		CoCo OT-CAN Adapter	DRCOCOADPTRAA
		Lago CAN BUS room thermostat	DRCBROOMTHEAA
		Flow temperature sensor (Cascade)	DRFLWTESENSAA
		Outdoor temperature sensor (Cascade)	DRODRTESENSAA
		Storage Tank Temperature Sensor (Cascade)	DRSTKTESENSAA
Flue gas		Connector Elbow PP 60/100 + MP(0 mm)	DRMEEA60100BA
		Twin Box Adapter 80/80 + MP(0 mm)	DRDECOP8080BA
		Vert. Conn. 60/100-80/125 + MP(0 mm)	DRDECO80125BA
Mechanical		Cover plate (12-18-24 kW)	DRCOVERPLATAA
		Cover plate (28-35 kW)	DRCOVERPLA2AA
		Antifreezing set	DRANTIFREEZAB
Valve kit		Valve Kit C1 - 90° valves	DRVALVEKIC1AA
		Valve Kit C2 - 90° valves	DRVALVEKIC2AA
		Valve Kit T1 - 90° valves	DRVALVEKIT1AA
		Valve Kit T2 - 90° valves	DRVALVEKIT2AA
Pump Groups & Other		Seperator for mud and magnetit	SAS1 156021
		Seperator for mud and magnetit	IT.DEFANG-TP
		Seperator for mud and magnetit	IT-DEFANG-OT
		Unmixed Pump Group	DRUPUMPGRUPAA
		Mixed Pump Group	DRMPUMPGURPAA
For service		Service box	DRSERVCBOX1AA - 5020177



Daikin Altherma 3 C Gas (D2CNL)

Base model - Wall mounted gas condensing boiler

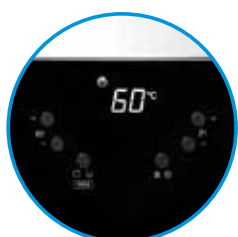
The new gas condensing boiler D2CNL-A1A integrates what is essential: neat design, ease of use and installation to provide heating and hot water.

Neat design

The product enjoys the black and white design DNA introduced with the third generation of Daikin Altherma products. Its dimensions and weight make it one of the most compact product of its category.

All-in-one comfort

The product provides space heating and instantaneous domestic hot water without tank, both with an A energy label.



As simple as A+B

The product is really simple to control via its interface. It is also very easy to install and service since all parts are available from the front.

Daikin Altherma 3 C Gas

Supremely compact gas condensing wall mounted boiler
providing heating and hot water

- › Easy to service: all parts are accessible by only removing the front panel
- › Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping









A



A

80 °C

Indoor unit				D2	CNL024A1A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	4.0 / 23.5
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW	4.4 / 26.1
	Output Pn at 80/60°C	Min/Nom		kW	3.8 / 22.8
	Output Pnc at 50/30°C	Min/Nom		kW	4.4 / 24.0
	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	4.0 / 25.5
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW	4.4 / 28.3
	Domestic hot water threshold			L/min	2.3
	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
Domestic hot water heating	General	Declared load profile			XL
		Water heating energy efficiency class			A
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



Indoor unit				EHOB	G12A	G18A	12AH	18AH	42AH
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	3.8/12.5	5.6/18.7	3.5/11.8	5.6/18.7	7.8/42.5
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW	4.2/13.9	6.2/20.8	3.9/13.1	6.2/20.8	8.7/47.2
	Output Pn at 80/60 °C	Min/Nom		kW	-12.2	-18.2	3.4/11.5	5.4/17.8	7.7/40.9
	Output Pnc at 50/30 °C	Min/Nom		kW		-/-	3.8/12.0	5.9/18.7	8.5/42.2
	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		m³/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		m³/h	0.42/1.50	0.67/2.25	0.42/1.42	0.64/2.25	0.94/5.10
	Consumption (G31)	Min/Max		m³/h	0.14/0.49	0.22/0.74	0.14/0.47	0.21/0.74	0.31/1.68
	Supply air	Concentric					60/100		
Flue gas	Connection		mm			60			
Space heating	General	ηs (Seasonal space heating efficiency)		%	92		60	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 Qn (net calorific value)	Nom	Min/Max	kW	5.6/18.7	7.1/23.7	7.2/27.3	5.5/23.3	7.1/29.1	7.6/32.7
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW	6.2/20.8	7.9/26.3	8.0/30.3	6.1/25.9	7.9/32.3	8.4/36.3
	Output Pn at 80/60 °C	Min/Nom		kW	-17.8	-22.8	-26.3	-22.7	-28.4	-32.1
	Water pressure (PMS)	Max		bar	3					
	Water temperature	Max		°C	90					
Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW	5.6/22.1	7.1/28.0	7.2/32.7	5.5/23.3	7.1/29.1	7.6/32.7
	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW	6.2/24.6	7.9/31.1	8.0/36.3	6.1/25.9	7.9/32.3	8.4/36.3
	Domestic hot water threshold			L/min	2.0			-		2.0
	Temperature	Factory setting		°C	60					
	Operation range	Min/Max		°C	40/65					
Gas	Connection	Diameter		mm	15					
	Consumption (G20)	Min/Max		m³/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		m³/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		m³/h	0.22/0.87	0.28/1.11	0.28/1.29	0.21/0.94	0.29/1.19	0.30/1.29
Supply air	Concentric				60/100					
Flue gas	Connection			mm	60					
Space heating	General	ηs (Seasonal space heating efficiency)	%	91	92	93	91	92	93	
				A						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL			
		ηwh (water heating efficiency)	%	78	81	90	83	84		
		Water heating energy efficiency class	A							
Casing	Colour	White - RAL9010								
	Material	Precoated sheet metal								
Dimensions	Unit	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	•	•	•	•	•			

Daikin Altherma C Gas ECH₂O

Floor standing gas condensing boiler

Why choose the Daikin floor standing boiler?

The unit combines modern gas condensing technology with a pressure less thermal store. Customers achieve the highest heating comfort, maximum water hygiene and a small installation footprint.



Multifaceted

Combine with solar and another heat source

Highest hygiene

Complies with superior standards for water sanitation

Connectivity

Features a wireless connection

High DHW Tapping Profile

(3xx = L) and (5xx = XL)

Attractive design

Compact measurements

3xx: 595 x 615 x 1,896 mm

5xx: 790 x 790 x 1,896 mm



High efficiency

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

Easy installation and service

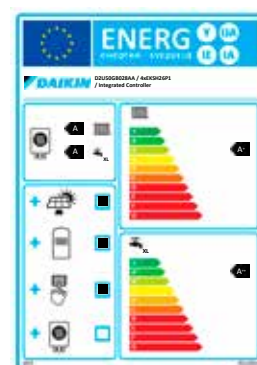
Lambda Gx

Fully electronic and accessible gas-air combination

Energy efficiency

All models reach the energy label A

For example:
D2U50GB028AA
/ 4xEKSH26P1 /
Integrated controller



Benefits

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



Technological advantage



Health

Integrated thermal storage with hygienic fresh water technology



More space for living

Small footprint while combining a condensing boiler and a thermal store



Fit for the future

Hybrid system. The efficient thermal store can be used with additional heat generators


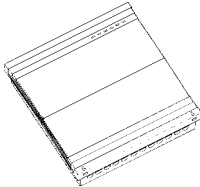










Daikin Altherma C Gas ECH₂O

Combining modern **gas condensing technology** with a **thermal store** in a floor standing application

- › Space-saving gas condensing boiler with integrated heat / solar storage
- › Auto Adaptive Lambda Gx combustion technology for all gas types
- › Universal use thanks to intelligent store management and a power output of 0.5 - 28 kW
- › High heat and DHW comfort with integrated ECH₂O Thermal store: fresh water hygiene technology
- › Easy integration of thermal solar and a further additional heat generator
- › Note: Solar controller (shown on picture) is an option, not standard on boiler



				D	2U30GC015A	2U30GC020A	2U50GC015A	2U50GC020A	2U50GC024A	2U50GC028A
Central heating	Heat input Q _n (net calorific value)	Nom	Min/Max	kW	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
	Heat input Q _n (gross calorific value)	Nom	Min/Max	kW	3.3/16.7	3.3/22.2	3.3/16.7	3.3/22.2	4.4/26.6	4.4/31.1
	Output P _n at 80/60 °C	Min/Nom		kW	2.9/14.6	2.9/19.5	2.9/14.6	2.9/19.5	3.9/23.4	3.9/27.2
	Output P _n at 50/30 °C	Min/Nom		kW	3.2/15.7	3.2/20.9	3.2/15.7	3.2/20.9	4.3/25.0	4.3/29.1
	Water pressure (PMS) Max			bar						
Domestic hot water	Water temperature Max			°C						
	Operation range	Min/Max		°C						
	Heat input (net calorific value) Q _{nw}	Nom	Min/Max	kW	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
	Heat input (gross calorific value) Q _{nw}	Nom	Min/Max	kW	3.3/16.7	3.3/22.2	3.3/16.7	3.3/22.2	4.4/26.6	4.4/31.1
	Output Temperature	Min/Nom	Factory setting	°C	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
Piping connections Gas	Operation range	Min/Max		°C						
	Cold in-Hot out			Inch						
	Connection	Diameter		mm						
	Consumption (G20)	Min/Max		m ³ /h	0.32/1.59	0.32/2.11	0.32/1.59	0.32/2.11	0.42/2.54	0.42/2.96
	Consumption (G25)	Min/Max		m ³ /h	0.35/1.75	0.35/2.33	0.35/1.75	0.35/2.33	0.47/2.80	0.47/3.26
Supply air	Consumption (G31)	Min/Max		m ³ /h	0.16/0.62	0.16/0.82	0.16/0.62	0.16/0.82	0.27/0.98	0.27/1.15
	Connection			mm						
	Concentric									
	Flue gas	Connection		mm						
	Water circuit	Piping connections		Inch						
Space heating	General			%	91	92	91	92	92	92
	ns (Seasonal space heating efficiency)									
	Seasonal space heating eff. class									
	Declared load profile									
	n _{wh} (water heating efficiency)			%	77	77	84	82	84	84
Domestic hot water heating	Water heating energy efficiency class									
	General									
	Declared load profile									
	n _{wh} (water heating efficiency)			%	77	77	84	82	84	84
	Water heating energy efficiency class									
Casing	Colour									
	Material									
	Unit	Height x Width x Depth	Casing	mm	1,895 x 595 x 615	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790
	Weight	Empty		kg	76	102	102	104	104	104
	Power supply	Phase/Frequency/Voltage		Hz/V	76	98	76	98	104	108
Electrical power consumption	Max.			W	76	98	76	98	104	108
	Standby			W						
	Drain-back solar	Piping connections	solar-flow	Inch						
				D	2U30GB015A	2U30GB020A	2U50GB015A	2U50GB020A	2U50GB024A	2U50GB028A
Central heating	Heat input Q _n (net calorific value)	Nom	Min/Max	kW	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
	Heat input Q _n (gross calorific value)	Nom	Min/Max	kW	3.3/16.7	3.3/22.2	3.3/16.7	3.3/22.2	4.4/26.6	4.4/31.1
	Output P _n at 80/60 °C	Min/Nom		kW	2.9/14.6	2.9/19.5	2.9/14.6	2.9/19.5	3.9/23.4	3.9/27.2
	Output P _n at 50/30 °C	Min/Nom		kW	3.2/15.7	3.2/20.9	3.2/15.7	3.2/20.9	4.3/25.0	4.3/29.1
	Water pressure (PMS) Max			bar						
Domestic hot water	Water temperature Max			°C						
	Operation range	Min/Max		°C						
	Heat input (net calorific value) Q _{nw}	Nom	Min/Max	kW	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
	Heat input (gross calorific value) Q _{nw}	Nom	Min/Max	kW	3.3/16.7	3.3/22.2	3.3/16.7	3.3/22.2	4.4/26.6	4.4/31.1
	Output Temperature	Min/Nom	Factory setting	°C	3.0/15.0	3.0/20.0	3.0/15.0	3.0/20.0	4.0/24.0	4.0/28.0
Piping connections Gas	Operation range	Min/Max		°C						
	Cold in-Hot out			Inch						
	Connection	Diameter		mm						
	Consumption (G20)	Min/Max		m ³ /h	0.32/1.59	0.32/2.11	0.32/1.59	0.32/2.11	0.42/2.54	0.42/2.96
	Consumption (G25)	Min/Max		m ³ /h	0.35/1.75	0.35/2.33	0.35/1.75	0.35/2.33	0.47/2.80	0.47/3.26
Supply air	Consumption (G31)	Min/Max		m ³ /h	0.16/0.62	0.16/0.82	0.16/0.62	0.16/0.82	0.27/0.98	0.27/1.15
	Connection			mm						
	Concentric									
	Flue gas	Connection		mm						
	Water circuit	Piping connections		Inch						
Space heating	General			%	91	92	91	92	92	92
	ns (Seasonal space heating efficiency)									
	Seasonal space heating eff. class									
	Declared load profile									
	n _{wh} (water heating efficiency)			%	77	77	84	82	84	84
Domestic hot water heating	Water heating energy efficiency class									
	General									
	Declared load profile									
	n _{wh} (water heating efficiency)			%	77	77	84	82	84	84
	Water heating energy efficiency class									
Casing	Colour									
	Material									
	Unit	Height x Width x Depth	Casing	mm	1,895 x 595 x 615	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790	1,895 x 790 x 790
	Weight	Empty		kg	78	104	104	106	106	106
	Power supply	Phase/Frequency/Voltage		Hz/V	76	98	76	98	104	108
Electrical power consumption	Max.			W	76	98	76	98	104	108
	Standby			W						
	Drain-back solar	Piping connections	solar-flow	Inch						

		Regulation accessories	Type	Order No.
Room controller		Convenience controller with wall-mounting for use as a) A remote control (external equipment controller) b) Mixer unit (additional or standalone) c) Room thermostat for heat exchanger	RoCon U1	15 70 34
Mixer module		Controller for mixer valve with speed-controlled high-efficiency pump including mixer circuit sensor a) in combination with an equipment controller (RoCon B1). Mixer parameters adjustable via the heat generator. b) in combination with room controller (RoCon U1) 1. can be used as a standalone solution 2. can be integrated in the system via BUS	RoCon M1	15 70 68
Outdoor temperature sensor for RoCon convenience regulation		In conjunction with the mixer controller RoCon M1 when it is used as a zone or as a stand-alone solution	RoCon OT1	15 60 70
Gateway		For coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP) .	RoCon G1	15 70 70 (Daikin brand)
Gateway		For coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP) .	RoCon G1	15 70 56 (Rotex brand)
Flue-gas kit GCU compact		Double-walled connection set of 2 x 45° elbows with connection extender from DN60 / 100 to DN80 / 125.	Set GCU1	15 50 79.17
Double-walled test adapter DN 60/100		Accessories if no standard flue gas connection (Set GCU 1) is used.	D6 PA	24 60 11
Single-walled test adapter DN 60		Accessories for room-air independant operation if no standard flue gas connection (Set GCU 1) is used.	E6 PA	24 60 12
Pump Group with mixer		For a mixed heating circuit. Ready to plug in, in the thermal insulation case, with pressure controlled high-efficiency circulation pump, motor mixer, stops valves and temperature displays.		15 60 75
Pump group without mixer		For a mixed heating circuit. Ready to plug in, in the thermal insulation case, with PWMcontrolled high-efficiency circulation pump, motor mixer, stops valves and temperature displays.		15 60 77
Fittings kit for mixer group MK1/MK2		1" female thread x 1 1 / 2" flat-sealing.	VMK1	15 60 53
Convection brake		To prevent circulation under gravity in Sanicube water circuits with Drain-Back, 2 pcs., suitable up to 95 °C, for installation in any tank-side heat exchanger connections except pressure solar heat exchanger	SKB	16 50 70
Sludge and magnetite separator		Compact sludge separator with drain cock and thermal insulation. Input G1-IG (union nut), outlet G1-IG.	SAS1	15 60 21

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



Flue-gas evacuation system

Hybrid heat pump



Daikin Altherma R/H Hybrid

Floor standing gas condensing boiler



Daikin Altherma C Gas ECH₂O

Wall mounted gas condensing boilers

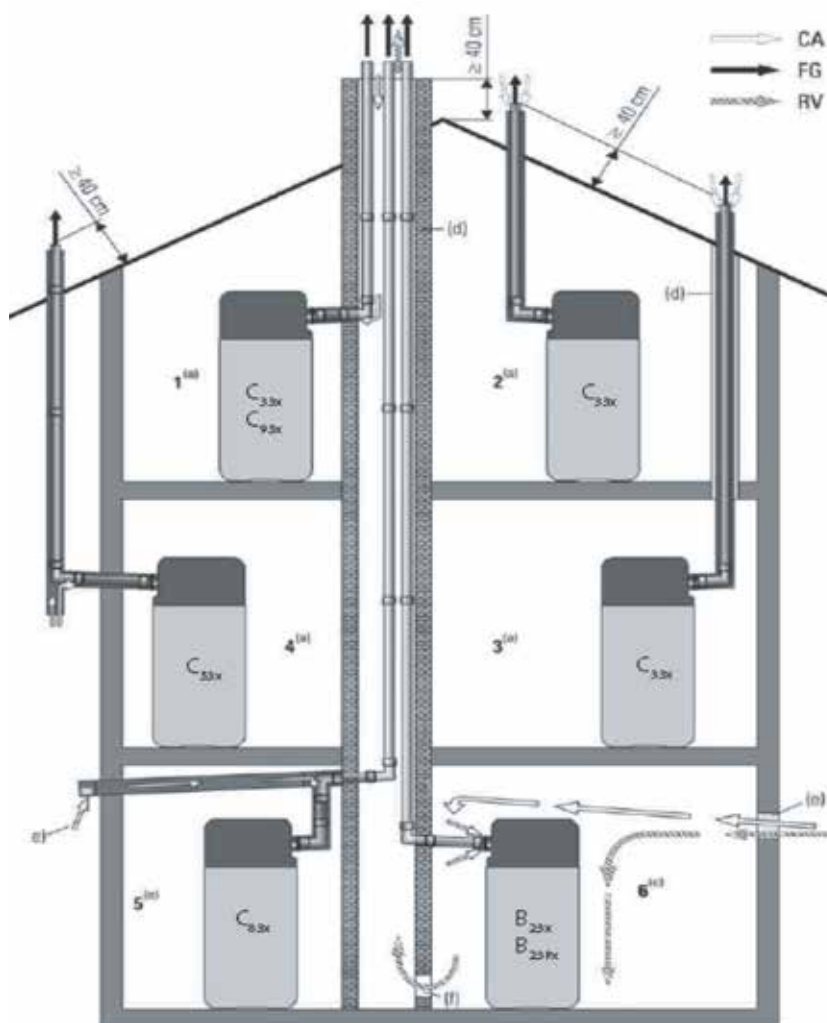


Daikin Altherma C Gas W
Daikin Altherma 3 C Gas W

Overview of Daikin Altherma C Gas ECH₂O

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.

Connection variants for Very High Energy Performance (condensing technology) Daikin Altherma C Gas ECH₂O.



1-6 Variants for Daikin Altherma C Gas ECH₂O

CA Air inlet (combustion)

FG Flue gas

RV Ventilation

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!

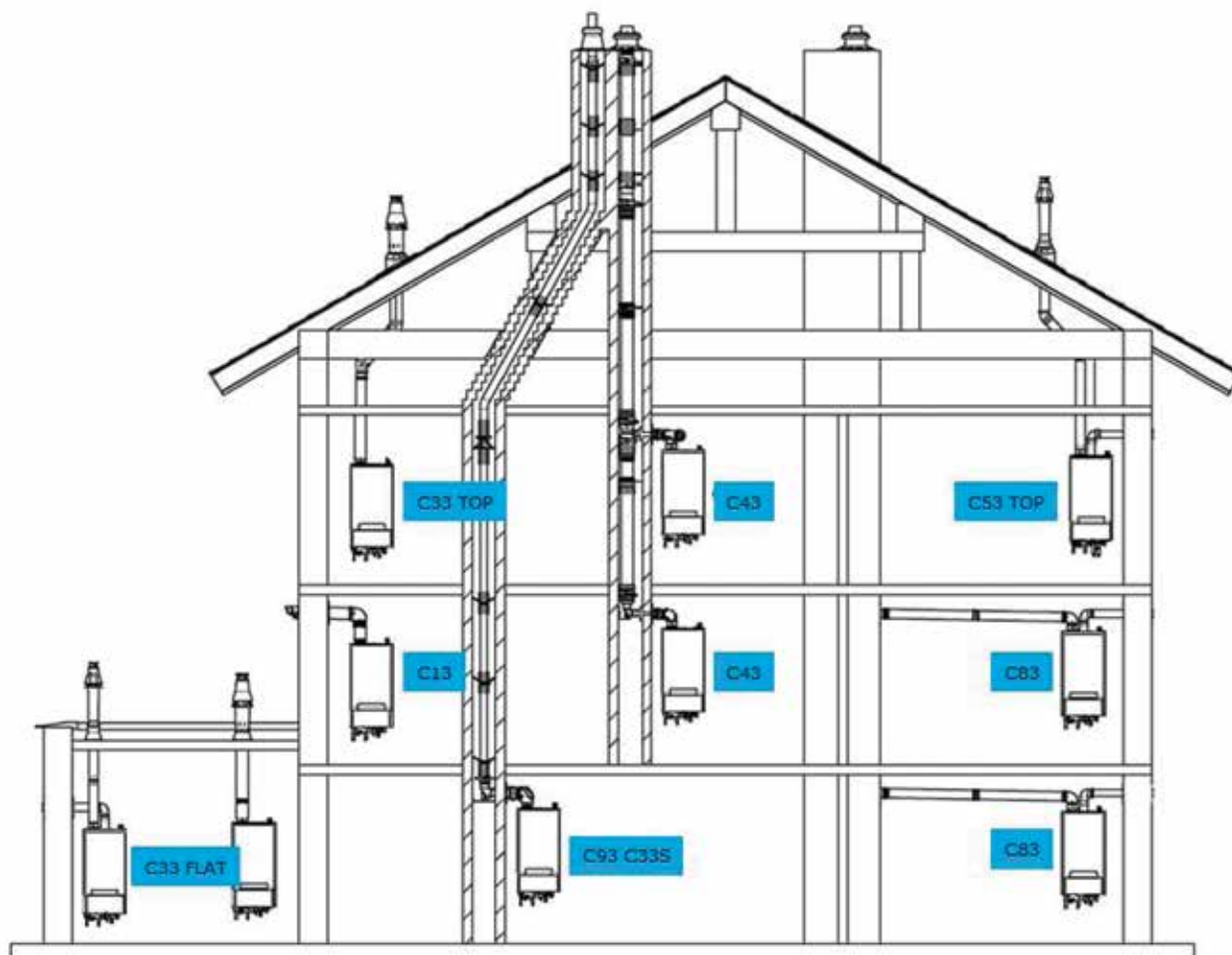
e Ventilation opening (1 x 150 cm² or 2 x 75 cm²)

f Ventilation (150 cm²)

- › All flue-gas ducts approved for condensing operation can be installed – an adapter may be needed
- › Treatment of condensate: neutralization is essential in all cases for Very High Energy Performance (condensing technology) oil-fired boilers using o EL standard oil. Neutralization may not be needed if low-sulfur fuel oil is used
- › Respect the local regulations
- › Requirements according to EN 14471: Temperature class T 120, pressure class P1, condensate consistence class W, corrosion-resistance class 2

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



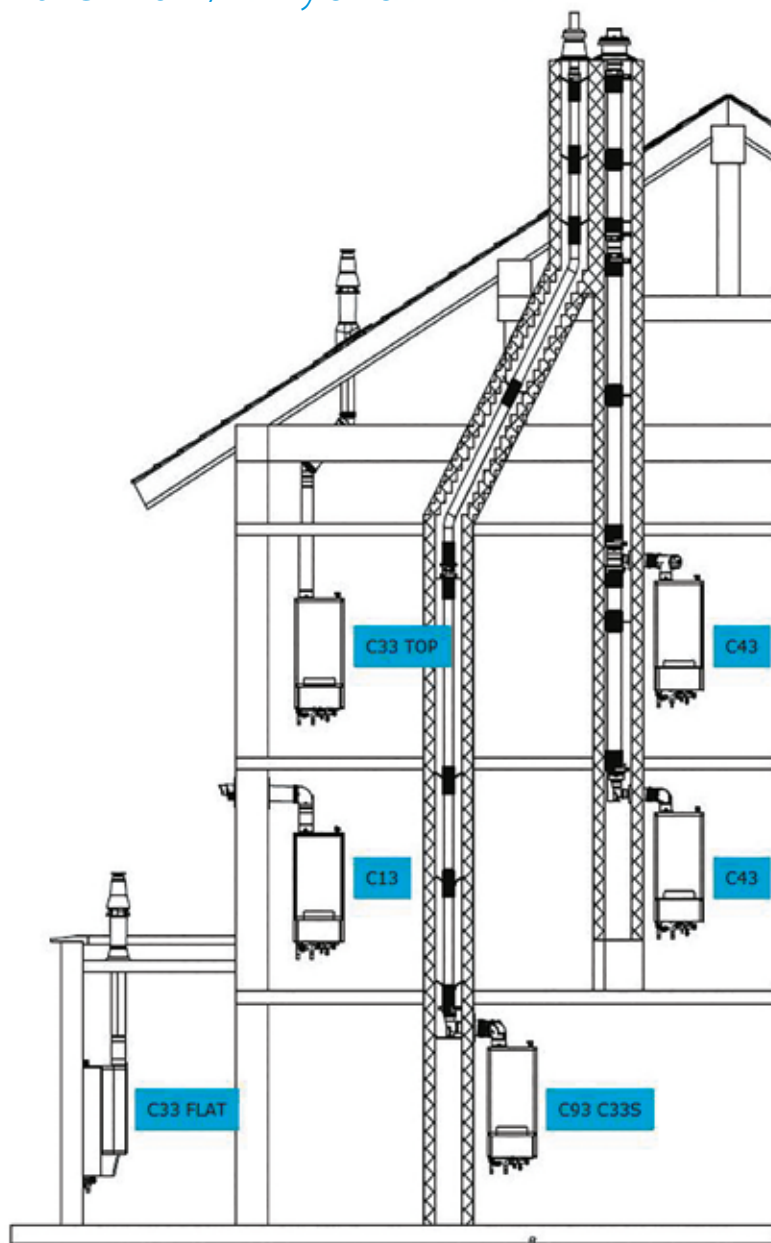
Selection tool

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



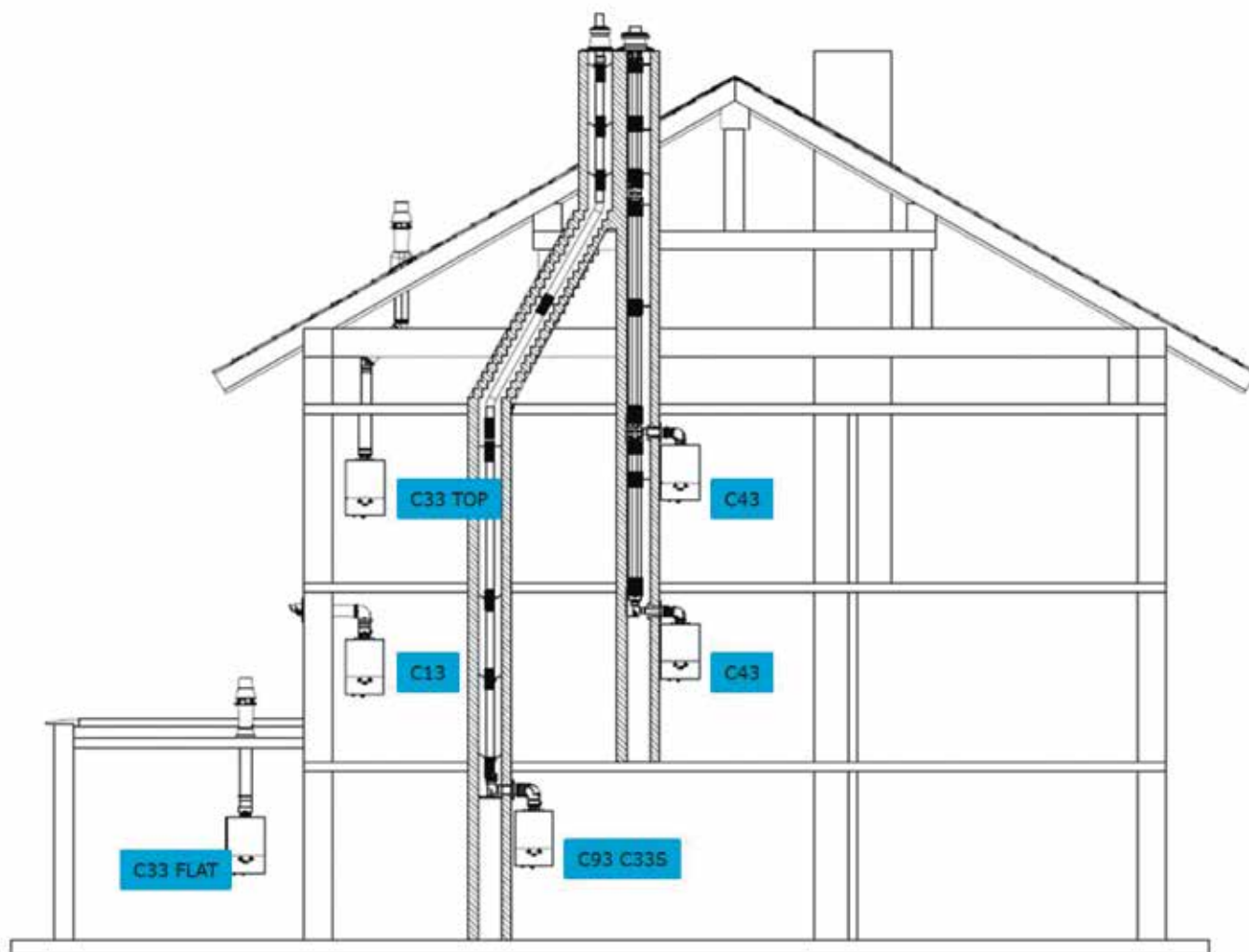
Selection tool

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 3 C Gas W



Boilers



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>



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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.



Domestic hot water tanks

Stainless steel tanks

Comfort

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

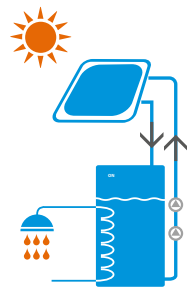
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

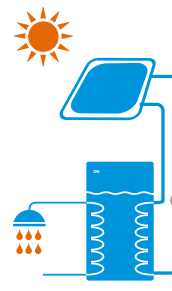
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

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

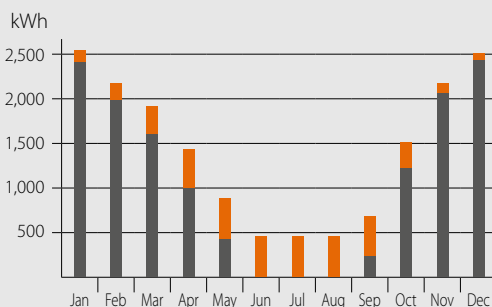
Pressureless (drain-back) solar system

- › 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

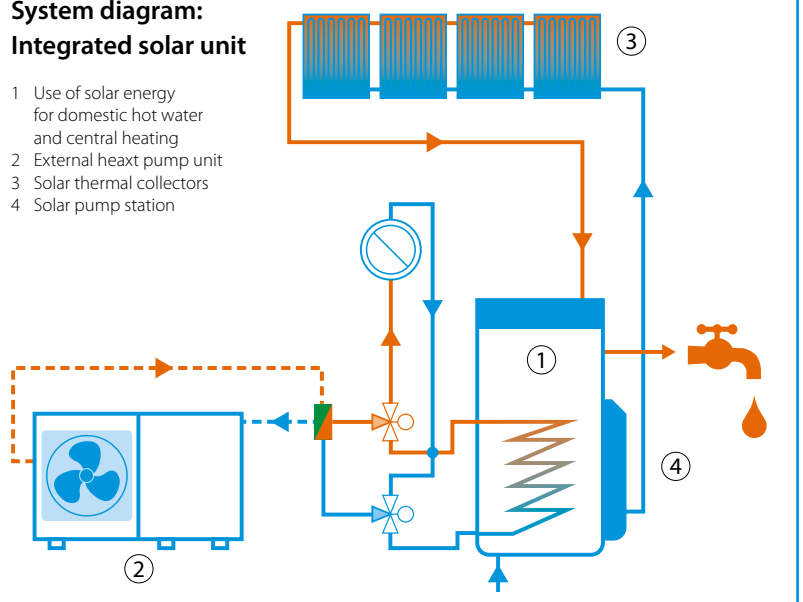
Monthly energy consumption of an average detached house



- 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



B

85 °C

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		
	Water volume			L	294	477	294	477		
	Material			Polypropylene						
	Maximum water temperature			°C	85					
	Insulation	Heat loss	kWh/24h	1.5	1.7	1.5	1.7			
	Energy efficiency class			B						
	Standing heat loss			W	64	72	64	72		
	Storage volume			L	290	393	290	393		
	Heat exchanger	Domestic	Quantity		1					
hot water		Tube material		Stainless steel (DIN 1.4404)						
		Face area	m²	5.6	5.8	5.6	5.9	5.8		
		Internal coil volume	L	27.8	28.9	27.8	29	28.9		
		Operating pressure	bar	6						
Charging		Quantity		1						
		Tube material		Stainless steel (DIN 1.4404)						
		Face area	m²	2.66	3.7	2.66	3.7	1.95		
		Internal coil volume	L	12.9	18.1	12.9	18.1	10		
Operating pressure		bar	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	-	3.9	-	3.9			
		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



B

85 °C

Accessory				EKHWDH 500B	EKHWDH 500B	EKHWC 300B	EKHWC 300PB	EKHWC 500B	EKHWC 500B	EKHWC 500PB	EKHWC 500B	EKHWC 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			85									
	Insulation	Heat loss	kWh/24h	1.7		1.5		1.7					
	Energy efficiency class			B									
	Standing heat loss			W	72		64		72				
	Storage volume			L	477		294		477				
Heat exchanger	Domestic hot water	Quantity		1									
		Tube material		Stainless steel (DIN 1.4404)									
		Face area	m²	4.900		3.800		4.900					
		Internal coil volume	L	23.8		18.6		23.8			25.8		
		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	-				3					
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)-B: available in 150, 200 and 300 litres in stainless steel
- › EKHWS-B: available for 400V applications
- › EKHWS(U)-D: available in 150, 180, 200, 250 and 300 litres in stainless steel



C

85 °C




B


75 °C



B

75 °C

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
	Material					Stainless steel (EN 1.4521)	
	Maximum water temperature					75	
	Insulation Heat loss			kWh/24h		12.0	15.0
	Energy efficiency class					B	
	Standing heat loss			W		50	63
	Storage volume			L		200	260
	Heat exchanger	Quantity				1	
		Tube material				Duplex steel (EN 1.4162)	
	Face area			m ²		1.560	
	Internal coil volume			L		7.5	

Accessory				EKHWS	(U)150B3V3	(U)200B3V3	(U)300B3V3	200B3Z2	300B3Z2
Casing	Colour				Neutral white				
	Material				Epoxy-coated mild steel				
Dimensions	Unit	Width	mm	580					
		Depth	mm	580					
		Height	mm	900	1,150	1,600	1,150	1,600	
Weight	Unit	Empty	kg	37	45	59	45	59	
	Tank	Water volume	L	150	200	285	200	285	
		Material	Stainless steel (DIN 1.4521)						
		Maximum water temperature	°C	85					
		Insulation Heat loss	kWh/24h	1.55	1.77	2.19	1.77	2.19	
		Energy efficiency class	C						
		Standing heat loss	W	65	74	91	74	91	
		Storage volume	L	150	200	285	200	285	
	Heat exchanger	Quantity				1			
Tube material					Duplex steel LDX 2101				
Booster heater	Capacity	kW			3				
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230						
			2~/50/400						


Accessory				EKHWS(U)	150D3V3	180D3V3	200D3V3	250D3V3	300D3V3	
Casing	Colour				Neutral white					
	Material				Epoxy coated steel / Epoxy-coated mild steel					
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745	
Weight	Unit	Empty		kg	45	50	53	58	63	
	Water volume				L	145	174	192	242	
	Material				Stainless steel (EN 1.4521)					
	Maximum water temperature				°C	75				
	Insulation	Heat loss		kWh/24h	1.1	1.2	1.3	1.4	1.6	
	Energy efficiency class				B					
	Standing heat loss				W	45	50	55	60	68
	Storage volume				L	145	174	192	242	292
	Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (EN 1.4521)					
		Face area		m²	1.050	1.400		1.800		
		Internal coil volume		L	4.9	6.5		8.2		
		Operating pressure		bar	10					
Booster heater	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.

Daikin Residential Controller App

Requires WLAN Module (BRP069A71), WLAN cartridge (BRP069A78) or LAN Adapters (BRP069A61/2)



Wired remote controller

Madoka



Wired digital thermostat






EKWCTRD1V3



Wired analog thermostat

EKWCTRD1V3

Combination table

						
		BRC1HHDW/S/K	EKRUCB*	EKRUHML*	EKRUAHTB	EHS157034
Daikin Altherma 3 H HT (F/W)	14-16-18 kW	•				
Daikin Altherma 3 H HT ECH ₂ O	14-16-18 kW					•
Daikin Altherma 3 R (F/W)	4-6-8 kW	•				
Daikin Altherma 3 H (F/W)	11-14-16 kW		•			
Daikin Altherma 3 R ECH ₂ O	4-6-8 kW					•
Daikin Altherma R ECH ₂ O	11-14-16 kW					•
Daikin Altherma R HT	11-14-16 kW				•	
Daikin Altherma 3 M	9-11-14-16 kW	•				
Daikin Altherma M	5-7-11-14-16 kW		•			
Daikin Altherma R Hybrid	5-8 kW		•			
Daikin Altherma H Hybrid	4 kW			•		
Daikin Altherma GEO	10 kW		•			
Daikin Altherma 3 GEO	6-10 kW	•				

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

EKRUCB¹⁾

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

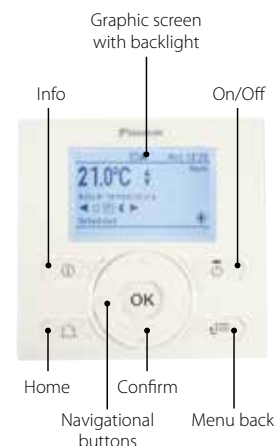
General features

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

Applicable Daikin units

- › Daikin Altherma R (F/W)
- › Daikin Altherma M
- › Daikin Altherma R Hybrid
- › Daikin Altherma GEO

1) Only in combination with EKRTE5.





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
- › Daikin Altherma R Flex Type HT

				BRC1HDDAK/W/S	EKRUCB ¹⁾	EKRUHML ¹⁾	EKRUAHTB	EKWCTRDIIV3	EKWCTRANIV3
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	0.110	-	-	-	-	-
	Packed unit		kg	0.317	-	-	-	-	-
Packing	Material			Cardboard	-	-	-	-	-
	Weight			0.0850	-	-	-	-	-
LCD	Type			100 x 150 dots	-	-	-	-	-
	Dimensions	Height	mm	40.7	46	46	-	-	-
		Width	mm	28.0	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	-	-	-	-	-
				Yes (the clock will keep functioning for period not exceeding 48 hours)	-	-	-	-	-
Backup for power failure				Yes (the clock will keep functioning for period not exceeding 48 hours)	-	-	-	-	-
				Yes (the clock will keep functioning for period not exceeding 48 hours)	-	-	-	-	-
Control systems	Class of temperature control			VI	VI	VI	VI	-	-
	Contribution to seasonal space heating efficiency			4.0	4.0	4.0	4.0	-	-
Wiring connections	Type of wires			Sheathed vinyl cord or cable	-	-	-	-	-
	Size			0.75, 1.25	-	-	-	-	-
				2	-	-	-	-	-
	For connection with indoor	Quantity		2	-	-	-	-	-
		Remark		P1-P2 wired connection from indoor unit	-	-	-	-	-
	Wiring length	Max.	m	500	500	500	-	-	-

Individual 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 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.



Wired analog thermostat EKWCTRAN1V3

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



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.

Comfort

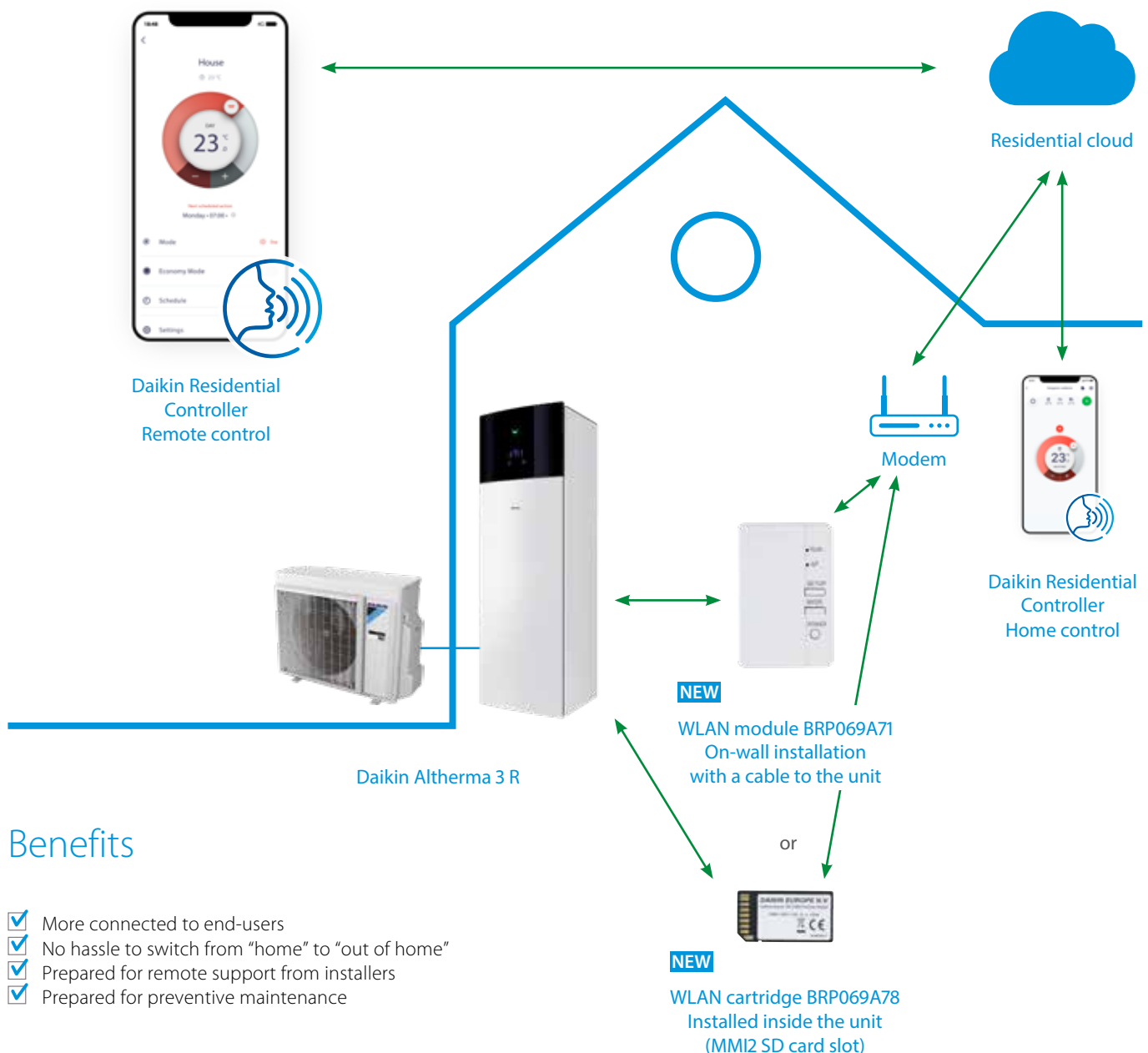
With the help of an electronic room-by-room control system, users can regulate the temperature individually in each room. In addition to the warmth output of the actual heating surfaces, the room temperature control system also takes all other heat sources into account, such as sunshine, warmth from 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.

Cloud connectivity only

Whether the customers are home or remote, they will be able to control their Daikin unit via the Daikin Residential Controller app. The app is always reachable via the cloud to ensure the best comfort in space heating, cooling and domestic hot water. How does it work?



Benefits

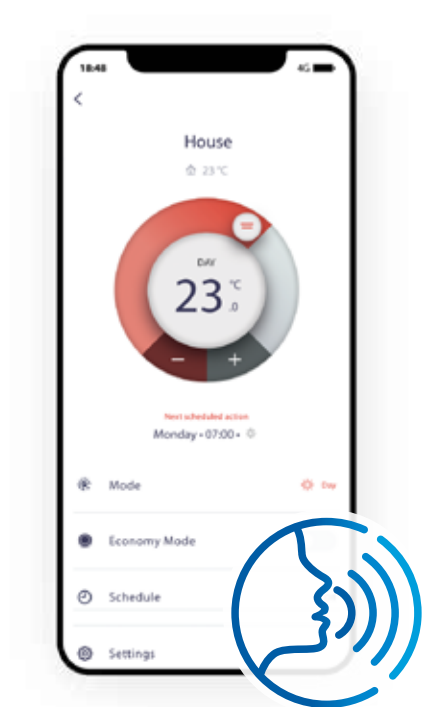
- ✓ More connected to end-users
- ✓ No hassle to switch from "home" to "out of home"
- ✓ Prepared for remote support from installers
- ✓ Prepared for preventive maintenance



Daikin Residential Controller App

Now available with voice control

The Daikin Residential Controller App is for those who live their life on the go and who want to manage their heating system from their smartphone.



NEW

Voice control

To provide users with even more comfort and ease, the Daikin Residential Controller App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

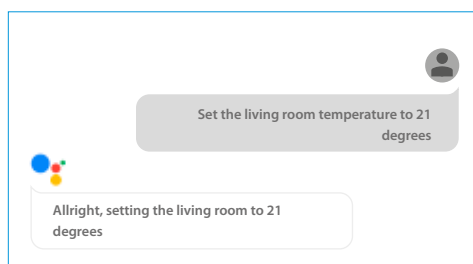
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



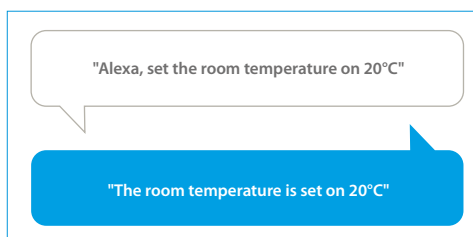
works with the
Google Assistant



amazon alexa



Example of using the voice control via Google Assistant



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 HPC Floor standing model

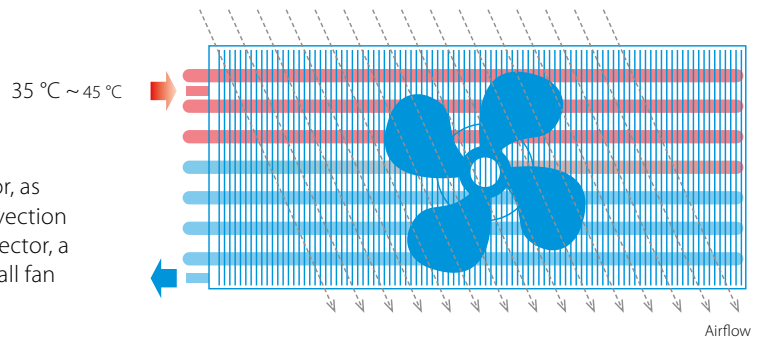


Daikin Altherma HPC provides both cooling and heating. The system is compatible with underfloor piping and radiators in a multi-zoning installation, or can replace radiators with low temperature heat pumps. The unit is available in three models (floor standing, wall-mounted and concealed) and is suited for use in bedrooms and living rooms thanks to its silent operation.

What is a heat pump convector?

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, a radiator's 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.

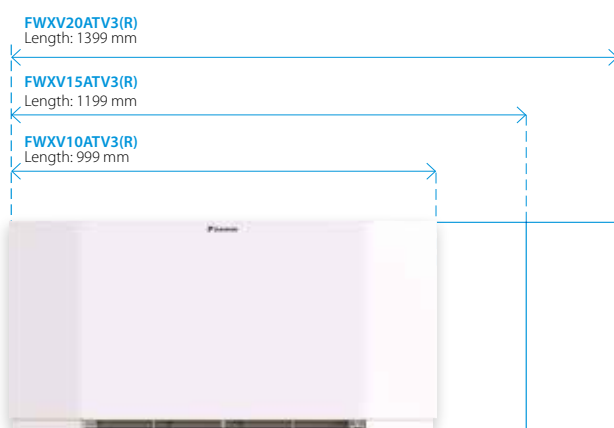


- › Optimized for newly built houses.
- › Can be set at low water temperature (35 °C) which makes it ideal for heat pump applications.

Slim design



The floor standing Daikin Altherma HPC measures 135 mm (depth) fits any house or apartment. Its optimised design was rewarded with the Reddot Design Award 2020.



Fast and high capacity

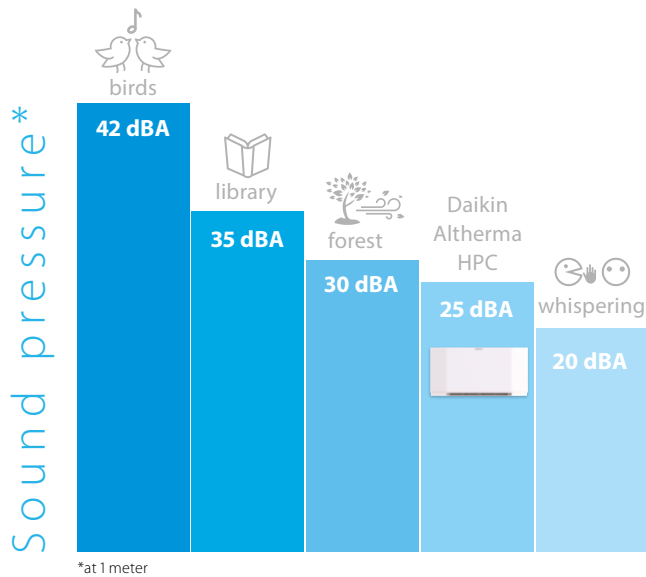
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high-capacity heating or cooling faster and can be set at ultra-low temperatures (35/30 °C regime).





Discreet

As the unit reaches its set point, a continuous modulating fan gradually reduces its speed and creates less noise. The unit's sound pressure measures 25dB(A) at 1m when the fan is on a low-speed setting.



DC Inverter

Daikin Altherma HPC uses the latest technologies to consume less electricity down to 3W of standby power input.

Controls

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

EKRTCTRL1



- > Built-in controller
- > Fully modulating
- > Multicolor display

EKRTCTRL2



- > Built-in controller
- > 4 speed settings

EKWHCTRL1



- > Wall controller
- > Fully modulating
- > In combination with EKWHCTRL0

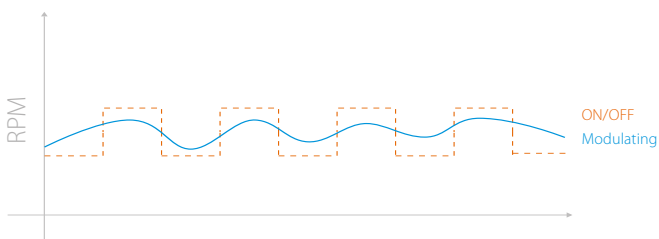
EKPCBO



- > Built-in controller
- > ON/OFF
- > In combination with external thermostats

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.



* Only applicable for EKRTCTRL1, EKWHCTRL1

Perfect combination

This heat pump convector fits perfectly within the Daikin Altherma 3 range.

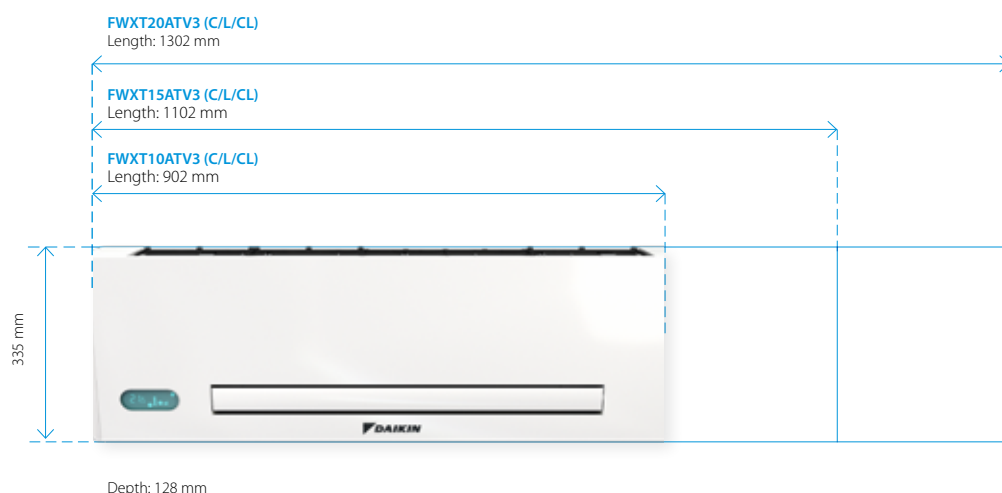


Wall-mounted model

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

Infrared remote controller



Compactness



1

SLIM DEPTH

The depth of 129 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

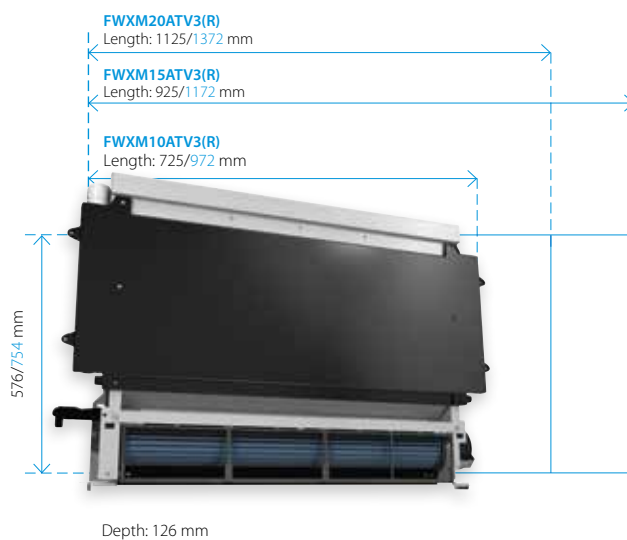
When there is less heating demand, the unit modulates its airflow to slow down the fan rate, and in the process, lowers the operational sound. A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.



Concealed model

Forget about your heating or cooling installation altogether: our concealed model vanishes into the wall or roof for visual comfort while preserving its unique heating and cooling capabilities.

Slim design



Blue dimensions are for the front cover.

Controls

EKWHCTRL1



- › Wall controller
- › Fully modulating
- › In combination with EKWHCTRL0

Flexible installation

Daikin Altherma HPC can be installed in four different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in-ceiling installation, three different possibilities are offered:

- › Horizontal cover panel and vertical grille for air outlet
- › Horizontal intake grille and vertical grille for air outlet
- › Horizontal intake and outlet grilles






Heat pump convectors - FWXV-ATV3(R)



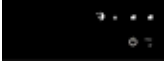



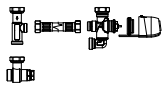
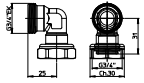
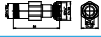







Indoor unit				FWXV10ATV3(R)		FWXV15ATV3(R)		FWXV20ATV3(R)		
Cooling capacity at 7/12 °C	Min.			kW	0,66		1,30		1,82	
	Med.			kW	1,36		2,16		2,52	
	Max.			kW	1,77		2,89		3,20	
Sensible cooling capacity at 7/12 °C	Min.			kW	0,39		0,99		1,22	
	Med.			kW	0,98		1,53		1,55	
	Max.			kW	1,33		2,10		1,78	
Heating capacity at 35/30 °C	Min.			kW	0,41		0,45		0,93	
	Med.			kW	0,82		1,29		1,66	
	Max.			kW	1,14		1,73		2,15	
Heating capacity at 45/40 °C	Min.			kW	0,95		1,24		1,90	
	Med.			kW	1,63		2,33		3,05	
	Max.			kW	2,18		3,11		3,88	
Power input	Min.			kW	0,004		0,005		0,010	
	Med.			kW	0,011		0,012		0,016	
	Max.			kW	0,020		0,020		0,030	
Fan speed	Min.			m³/h	118		180		246	
	Med.			m³/h	210		318		410	
	Max.			m³/h	294		438		566	
Casing	Colour			RAL 9003						
	Material			Metal sheet						
Dimensions	Unit	Height	mm	601						
		Width	mm	999		1199		1399		
	Packed unit	Depth	mm	135		135		135		
		Height	mm	690						
		Width	mm	1230		1430		1630		
		Depth	mm	210						
		Weight	Unit	kg	20		23		26	
	Packed unit	kg	21		24		27			
Packing	Material			Carton						
Heat exchanger	Weight			kg						
	Quantity			1		1		1		
	Internal coil volume			L	0,8		1,13		1,46	
Water circuit	Max Operating pressure			bar						
	Piping connections diameter			inch						
	Piping material			3/4" male						
				EUROKONUS						
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,3		2,0		1,2		
		Med.	kPa	1,3		7,5		4,0		
		Max.	kPa	2,4		12,3		8,0		
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,3		8,6		3,8		
		Med.	kPa	4,2		3,3		11,2		
		Max.	kPa	7,2		11,5		21,3		
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,2		4,3		2,1		
		Med.	kPa	2,8		19,3		13,1		
		Max.	kPa	2,9		27,0		24,0		
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	69,9		73,6		160,2		
		Med.	kg/h	141,4		221,1		285,3		
		Max.	kg/h	195,2		297,2		369,9		
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	163,5		212,5		327,0		
		Med.	kg/h	280,3		401,1		524,6		
		Max.	kg/h	374,1		534,5		667,5		
	Cooling - Water flow rate at 7/12 °C	Min.	kg/h	113,5		223,7		313,0		
		Med.	kg/h	234,1		371,7		433,6		
Max.		kg/h	303,6		496,6		550,6			
Sound power level	Pressure			10		10		10		
	Super silent			dBA		29		31		
	Min.			dBA		34		35		
Sound pressure level	Max.			dBA		55		57		
	Super silent			dBA		20		22		
	Min.			dBA		25		26		
Operation range	Max.			dBA		42		44		
	Heating	Water side	Min.	°C						
			Max.	°C.						
	Cooling	Water side	Min.	°C.						
			Max.	°C						
Indoor installation	Ambient	Min.	°CDB							
		Max.	°CDB							
Control systems	Infrared remote control			no						
	On-board control			yes						
Electrical specifications				FWXV10ATV3(R)		FWXV15ATV3(R)		FWXV20ATV3(R)		
Power supply	Phase			1						
	Frequency			Hz						
	Voltage			V						
Electrical power consumption	Max.			W		19		20		
	Standby			W		3		4		
Current	Maximum running current			A		0,16		0,16		
								0,26		

Indoor unit				FWXT10ATV3 (C/L/CL)	FWXT15ATV3 (C/L/CL)	FWXT20ATV3 (C/L/CL)
Cooling capacity at 7/12 °C	Min.		kW	0,53	0,65	0,74
	Med.		kW	0,98	1,20	1,35
	Max.		kW	1,21	1,62	2,12
Sensible cooling capacity at 7/12 °C	Min.		kW	0,13	0,15	0,36
	Med.		kW	0,40	0,56	0,70
	Max.		kW	1,01	1,44	1,99
Heating capacity at 35/30 °C	Min.		kW	0,29	0,23	0,47
	Med.		kW	0,48	0,69	1,08
	Max.		kW	0,66	1,00	1,44
Heating capacity at 45/40 °C	Min.		kW	0,61	0,85	1,08
	Med.		kW	1,12	1,51	1,95
	Max.		kW	1,51	2,03	2,62
Power input	Min.		kW	0,004	0,005	0,006
	Max.		kW	0,019	0,020	0,029
Fan speed	Min.		m³/h	84	124	138
	Med.		m³/h	155	229	283
	Max.		m³/h	228	331	440
Casing	Colour			RAL 9003		
	Material			Metal sheet		
Dimensions	Unit	Height	mm	335		
		Width	mm	902	1102	1302
		Depth	mm	128		
	Packed unit	Height	mm	490		
Width		mm	1030	1230	1430	
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	0,54	0,74	0,93
	Max Operating pressure		bar	10		
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,2	1,9	0,3
		Med.	kPa	0,9	2,9	1,4
		Max.	kPa	1,6	3,3	2,3
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,1	2,8	1,1
		Med.	kPa	3,1	3,5	4,1
		Max.	kPa	5,4	4,0	6,6
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,1	3,9	1,3
		Med.	kPa	3,0	4,8	4,2
		Max.	kPa	5,2	5,7	6,9
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	39,3	39,0	80,8
		Med.	kg/h	81,8	119,4	185,4
		Max.	kg/h	114,0	172,4	247,8
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	91,9	112,6	164,8
		Med.	kg/h	162,0	216,6	341,0
		Max.	kg/h	218,4	310,0	447,2
	Cooling - Water flow rate at 7/12 °C	Min.	kg/h	82,1	98,9	156,5
		Med.	kg/h	138,1	177,4	300,6
		Max.	kg/h	184,4	283,0	396,8
	Pressure	Heating/Max.	bar	10	10	10
Sound power level	Min.		dBA	35	36	36
	Max.		dBA	53	54	55
Sound pressure level	Min.		dBA	25	25	26
	Max.		dBA	40	42	43
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	
Electrical specifications				FWXT10ATV3 (C/L/CL)	FWXT15ATV3 (C/L/CL)	FWXT20ATV3 (C/L/CL)
Power supply	Phase			1		
	Frequency		Hz	50		
	Voltage		V	230		
Electrical power consumption	Max.		W	17,6	19,8	26,5
	Standby		W	5	5	5,8
Current	Maximum running current		A	0,16		

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 35/30 °C	Min.		kW	0,41	0,45	0,93	
	Med.		kW	0,82	1,29	1,66	
	Max.		kW	1,14	1,73	2,15	
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.		kW	0,004	0,005	0,006	
	Med.		kW	0,008	0,011	0,011	
	Max.		kW	0,019	0,020	0,029	
Fan speed	Min.		m³/h	118	180	246	
	Med.		m³/h	210	318	410	
	Max.		m³/h	294	438	566	
Casing	Material			No casing			
Dimensions	Unit	Height	mm	576			
		Width	mm	725	925	1125	
		Depth	mm	126	126	126	
	Packed unit	Height	mm	690			
		Width	mm	830	1030	1230	
		Depth	mm	210			
Weight	Unit	kg	12	15	18		
	Packed unit	kg	13	16	19		
Packing	Material			Carton			
	Weight			kg			
Heat exchanger	Quantity			1	1	1	
	Internal coil volume			L	0,8	1,13	1,46
	Max Operating pressure			bar	10		
Water circuit	Piping connections diameter			inch	3/4" male		
	Piping material				EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,3	2,0	1,2	
		Med.	kPa	1,3	7,5	4,0	
		Max.	kPa	2,4	12,3	8,0	
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,3	8,6	3,8	
		Med.	kPa	4,2	3,3	11,2	
		Max.	kPa	7,2	11,5	21,3	
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,2	4,3	2,1	
		Med.	kPa	2,8	19,3	13,1	
		Max.	kPa	2,9	27,0	24,0	
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	69,9	73,6	160,2	
		Med.	kg/h	141,4	221,1	285,3	
		Max.	kg/h	195,2	297,2	369,9	
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	163,5	212,5	327,0	
		Med.	kg/h	280,3	401,1	524,6	
		Max.	kg/h	374,1	534,5	667,5	
	Cooling - Water flow rate at 7/12 °C	Min.	kg/h	113,5	223,7	313,0	
		Med.	kg/h	234,1	371,7	433,6	
		Max.	kg/h	303,6	496,6	550,6	
	Sound power level	Pressure	Heating/Max.	bar	10	10	10
Super silent			dBA	29	31	32	
Min.			dBA	35	35	36	
Sound pressure level	Max.		dBA	53	54	55	
	Super silent		dBA	20	22	23	
	Min.		dBA	25	26	26	
Operation range	Max.		dBA	42	44	46	
	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			
	Voltage			V			
Electrical power	Max.			19	20	29	
consumption	Standby			3	4	5	
Current	Maximum running current			A	0,16	0,16	0,26

				
FWXV10ATV3(R)	FWXT10ATV3 (C/L/CL)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
FWXV15ATV3(R)	FWXT15ATV3 (C/L/CL)			
FWXV20ATV3(R)	FWXT20ATV3 (C/L/CL)			
DC Inverter fan coil unit with sheet metal cabinet (white colour)		High Wall fancoil	Built-in DC Inverter fancoil for horizontal and vertical use	

Description	Picture	Material name				
On-board electronic control SMART TOUCH with PID full modulating fan and thermostat		EKRTCTRL1	Opt			
On-board electronic control SMART TOUCH 4 speeds with thermostat		EKRTCTRL2	Opt			
On-board 4 speeds control switch to be combined with Daikin compatible thermostats		EKPCBO	Opt			
On-board controller for EKWCTRL1		EKWCTRL0	Opt		Opt	Opt
SMART LCD wall controller with temperature probe, white casing		EKWCTRL1	Opt	Opt	Opt	Opt
Aesthetical feet		EKFA	Opt			
Motorised 2-way valve (FWXV/M)		EK2VK0	Opt		Opt	Opt
Motorised 2-way valve (FWXT)		EKT2VK0		Opt		
Motorised 3-way valve (FWXV/M)		EK3VK1	Opt		Opt	Opt
Motorised 3-way valve (FWXT)		EKT3VK1		Opt		
L-bow 90 °C		EKEUR90	Opt		Opt	Opt
Extension piece		EKDIST	Opt		Opt	Opt
Condensate collector tray for horizontal installation		EKM10COH	FWXV10ATV3(R)			
		EKM15COH	FWXV15ATV3(R)			
		EKM20COH	FWXV20ATV3(R)			
Metal casing		EKM10CS			Opt	
		EKM15CS				Opt
		EKM20CS				Opt
Front cover for ceiling installation		EKM10CH			Opt	
		EKM15CH				Opt
		EKM20CH				Opt
Front cover for wall installation		EKM10CV			Opt	
		EKM15CV				Opt
		EKM20CV				Opt
Air intake fitting		EKM10DH			Opt	
		EKM15DH				Opt
		EKM20DH				Opt
90 °C exhaust bend (Horizontal)		EKM10D90			Opt	
		EKM15D90				Opt
		EKM20D90				Opt
Telescopic air flow duct		EKM10DT			Opt	
		EKM15DT				Opt
		EKM20DT				Opt
Aluminum air intake grille with straight airflow		EKM10IS			Opt	
		EKM15IS				Opt
		EKM20IS				Opt
Straight airflow vent		EKM10SV			Opt	
		EKM15SV				Opt
		EKM20SV				Opt
Aluminum air intake grille with curved airflow		EKM10IC			Opt	
		EKM15IC				Opt
		EKM20IC				Opt
Aluminum air outlet grille with curved airflow		EKM10CA			Opt	
		EKM15CA				Opt
		EKM20CA				Opt

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



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.

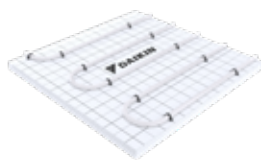
Systems: Monopex, System 70



System 70

Underfloor heating for direct combination with radiators or other heating surfaces. Different pipe dimensions for different applications.

- › DUO 17 for floor mounting with system panels
- › DUO 25 for commercial and industrial areas



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



Daikin Altherma HPC heat pump convactor

- › 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



Clip rail for wall heating

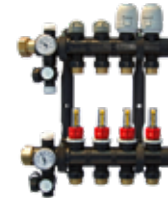
Clip rail combined with Monopex 14 for wall heating.

Systems: Monopex 14



RMV heating circuit distributor

Heating circuit manifold in stainless steel. For all Daikin underfloor heating and radiator connection systems.



RMX heating circuit manifold

Heating circuit manifold made of heat-stabilised, glass fiber reinforced polyamide. For all Daikin underfloor heating and radiator connection systems.



Room controller

The room thermostat ensures convenient and individual control of the room temperature and impresses with its flat design and construction. Versions:

Wireless version

- › Wireless without battery

Wired version

- › LED display:
 - Heating/cooling (red/blue)
- › Read all status messages



Basic module with integrated power pack and clock module

- › Basic module with integrated power pack to supply the control unit (wireless and wired) plus optional clock module
- › Optimal interface to Daikin heat generators



Clock module to supplement basic module:

- › 2 reduction times for heating circuits
- › Pump stopping time
- › Removable from the basic module for easy operation

Segmentation 1	Segmentation 2	Segmentation 3	Description	Product Name	Material Name	
Piping						
UFH heating pipes	PEHD-Xc	Single pipe	MONOPEX® ø14 X 2 DD - 120	EMOPX14120AA	EMOPX14120A	
			MONOPEX® ø14 X 2 DD - 240	EMOPX14240AA	EMOPX14240A	
			MONOPEX® ø14 X 2 DD - 600	EMOPX14600AA	EMOPX14600A	
			MONOPEX® ø17 X 2 DD - 120	EMOPX17120AA	EMOPX17120A	
			MONOPEX® ø17 X 2 DD - 240	EMOPX17240AA	EMOPX17240A	
			MONOPEX® ø17 X 2 DD - 600	EMOPX17600AA	EMOPX17600A	
			MONOPEX ø20 X 2 DD - 400	EMOPX20400AA	EMOPX20400A	
		Pipe in pipe	DUO ø17/12 X 2 DD - 120 (System 70)	EMOPXDUO17120AA	EMOPXDUO17120A	
			DUO ø17/12 X 2 DD - 240 (System 70)	EMOPXDUO17240AA	EMOPXDUO17240A	
			DUO ø17/12 X 2 DD - 600 (System 70)	EMOPXDUO17600AA	EMOPXDUO17600A	
			DUO ø17/12 X 2 AL - 120 (System 70)	EMOPXDUA17120AA	EMOPXDUA17120A	
			DUO ø17/12 X 2 AL - 240 (System 70)	EMOPXDUA17240AA	EMOPXDUA17240A	
		Single pipe	MONOPEX® ø14 X 2 AL - 200 (System 70)	EMOPXDUO25200AA	EMOPXDUO25200A	
Floorplates						
Wet system Floorplates	Napplates	Diagonal With insulation	Protect Integral 27-2 Protect 11	EPROTECTIN272AA EPROTECT11AA	EPROTECTIN272A EPROTECT11A	
	Tacker	Tacker System	Tackerplate Tackerplate roll	ETACKERPLATEAA ETACKERPLATERAA	ETACKERPLATEA ETACKERPLATERA	
Pipe accessories	Protection Pipe		Protection pipe 16/21	EPROTEPIP1621AA	EPROTEPIP1621A	
			Protection pipe 19/25	EPROTEPIP1925AA	EPROTEPIP1925A	
			Protection pipe 23/28	EPROTEPIP2328AA	EPROTEPIP2328A	
Wall/side-strips						
Installation accessory	Plate accessories	Wall/side-strips	Side-strip for screed floor RDS	ESIDESTRIPRDSAA	ESIDESTRIPRDSA	
			Closing cord floating screed floor RDS (Befestigungschnur in Noppenplatte)	ESEALLINERDSAA	ESEALLINERDSA	
			Side-strip for concrete floor RDS-I	ESIDESTRPRDSIAA	ESIDESTRPRDSIA	
			Dehnfugenprofil Carton	EXPANSIOJOICAAA	EXPANSIOJOICAA	
			Dehnfugenprofil PE or PP	EXPANSIOJOIPEAA	EXPANSIOJOIPEA	
	Screed Material					
	Screed		Screed Estrolith H2000	ESCREDEST2000AA	ESCREDEST2000A	
			Screed Temporex	ESCREDEMPREXAA	ESCREDEMPREXA	
			Screed Estrotherm S	ESCREDESTROSAA	ESCREDESTROSA	
	Plate accessories	Primer	Surface primer 3,5kg Surface primer 15kg	ESURFPRIMER35AA ESURFPRIMER15AA	ESCREDESTROSA ESURFPRIMER35A	
		In pipe protection fluid	Freeze and corrosion protection	EFREZCOPROTECAA	EFREZCOPROTECA	
	Accessories					
	Tacker accessories	Tacker installation	System tackler STAC (tacker gun)	ESYSTACERSTACAA	ESYSTACERSTACA	
		Tacker nail	Tacker nail TN40	ETACKERNAIL40AA	ETACKERNAIL40A	
			Tacker nail TN60	ETACKERNAIL60AA	ETACKERNAIL60A	
	Wall system accessories	Tape	Tape KB50	ETAPEKB50AA	ETAPEKB50A	
		Cliprail	Cliprail	ECLIPRAILAA	ECLIPRAILA	
		Cliprail accessories	Cliprail nail	ECLIPRAILNILAA	ECLIPRAILNAILA	
	Cliprail plug		ECLIPRAILPLUGAA	ECLIPRAILPLUGA		
	Accessory	Pipe accessories	Pipe clips	Pipe clips (Monopex 17/20)	EPIPECLIPMOPXAA	EPIPECLIPMOPXA
				Pipe clips (DUO25)	EPIPECLIPDUOAA	EPIPECLIPDUOA
			Manual pipe handling	Pipe fixation for steel frame	EPIPEFIXSTEELAA	EPIPEFIXSTEELA
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
		Set ring	AlPex coupling	EAIPEXCOUPLINAA	EAIPEXCOUPLINA
			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	ECOMBIBOXAA	ECOMBIBOXA	
Wall Box					
	RMV/RMX	In wall collector box	In wall until RMX4/RMV3 (HKV compatible)	EIWRX4RV3AA	EIWRX4RV3A
			In wall until RMX7/RMV6 (HKV compatible)	EIWRX7RV6AA	EIWRX7RV6A
			In wall until RMX10/RMV9 (HKV comptaible)	EIWRX10RV9AA	EIWRX10RV9A
			In wall until RMX14/RMV13 (HKV compatible)	EIWRX14RV13AA	EIWRX14RV13A
			In wall until RMX14/RMV13 + calorimeter (HKV compatible)	EIWRX14RV13CLAA	EIWRX14RV13CLA
	HKV/RMX/RMV	On wall collector box	On-wall until HKV7/RMX7/RMV6	EOWHV7RX7RV6AA	EOWHV7RX7RV6A
			On-wall until HKV10/RMX10/RMV9	EOWH10RX10R9AA	EOWH10RX10R9A
			On-wall until HKV14/RMX14/RMV12	EOWH14RX14R12AA	EOWH14RX14R12A
			On-wall until HKV14/RMX14/RMV12 + calorimeter	EOWH14R14R12CAA	EOWH14R14R12CA
Console					
		Fixation console	Fixation console STK 40 for WEK40	EFCSTK40WEK40AA	EFCSTK40WEK40A
			Fixation console STK 45 for WEK45	EFCSTK45WEK45AA	EFCSTK45WEK45A
Controllers					
Controllers		Wired controllers	Base module UFH-BM	EKW175137	EKW175137
			Clock module UFH-UM	EKW175138	EKW175138
			Controller module, wire UFH-RMD2	EKW175141	EKW175141
			Controller module, wire UFH-RMD6	EKW175140	EKW175140
			Room controller, wire UFH-RD	EKW175139	EKW175139
		Wireless controllers	Rocon UFH wireless UFH-RT	175142	175142
			Base station 6 channels wireless UFH-RMF6A	175143	175143
			2 channels extra wireless UFH-RMF2A	175144	175144
		Actuators	Valve actuator RMV/RMX/HKV	EKWCVATR1V3	EKWCVATR1V3
			Valve actuator HKV	175146	175146
		Base station/ Thermostat	Base station 10 zones	EKWUFHTA1V3	EKWUFHTA1V3
			Digital thermostat 230V	EKWCTRDI1V3	EKWCTRDI1V3
			Analog thermostat 230V	EKWCTRAN1V3	EKWCTRAN1V3



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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

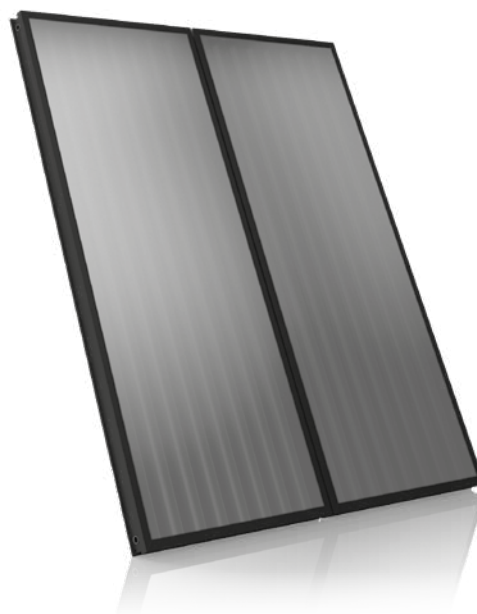
ECH₂O thermal store range:
Hot water savings with solar energy

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



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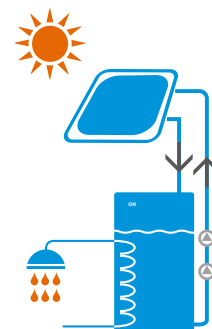
The Drain-Back solar system

✓ How is it working?

- › Starting the pump station engages the filling of the primary network and ensures the energy transfer from the solar collectors to the thermal store.
- › Whenever the pump station stops working, the water contained in the collectors goes down back to the thermal store
- › The air intake allowing the draining is ensured by an orifice always placed out of water (at atmospheric pressure)
- › Thanks to this unique way of working, no safety devices, safety valves, expansion vessels, anti-return valve or glycol are necessary

✓ Advantages

- › 0% glycol : the liquid carrying the heat is only the water inside the system
- › Self-working system with the pump station modulations depending the temperatures inside the collectors and the thermal store
- › Automatic management of the defrost mode and avoidance of overheating mode
- › No commissioning on the solar system, no replacement of the heat-carrying liquid



The pressurised solar system

✓ How is it working?

- › The heat-carrying liquid is mixed with glycol to avoid freezing in the solar collectors system
- › Whenever the solar collectors reach 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

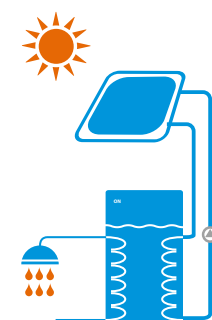
✓ Advantages

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 EKSRCP	EKSRCAP anthracite EKSRCP 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	EKS26P	EKS26P	1	1	1
Additional support troughs for connecting pipe solar panel	TS	16 42 45	1	1	1
Connection pipe solar panel	CON 15	16 47 32	1	1	1
Roof penetration pack solar panel on-roof	EKSRCAP EKSRCRP	EKSRCAP Anthracite EKSRCAP Red	1	0	0
Installation accessories, solar panel in-roof	RCIP	16 20 37-RTX	0	1	0
Roof penetration pack solar panel flat roof	RCFP	16 20 38-RTX	0	0	1

Material list solar panels with pressurised system ¹⁾

Number of solar panels Installation type / Article	Type	Order No.	up to 2 Quantity	up to 3 Quantity	4 to 5 Quantity	Nominal volume, complete system				
Controller	EKSDSR1A	EKSDSR1A	1	1	1	Number of solar panels	2	3	4	5
Pressure station solar panel	EKS26P	EKS26P	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	EKS26P	1	1	1					

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.

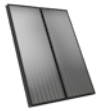
2) The number of roof hooks must be checked if necessary (see installation instructions ADM).

List of materials for solar components that connect several storage tanks



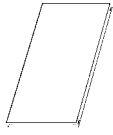
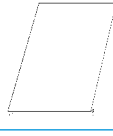

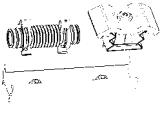




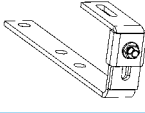
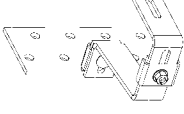

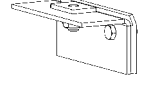
Total number of storage tanks Article	Type	Order No.	2 Quantity	3 Quantity
Solar panel storage tank extension kit	CON SX	16 01 20	1	1
Solar panel storage tank extension kit 2	CON SXE	16 01 21	0	1

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 welting 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




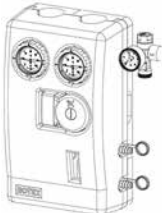

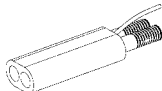


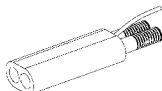




Drain-back system



Pressurised system


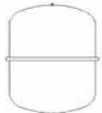





Solar panel - pressurised system



		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

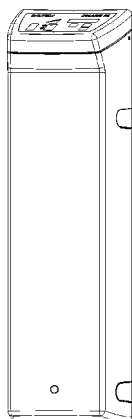

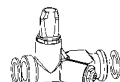




Solar panel - pressurised system



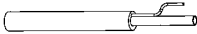
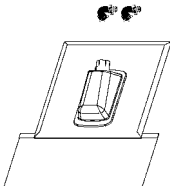
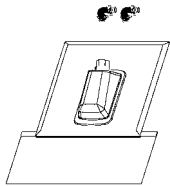
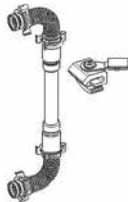
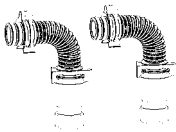
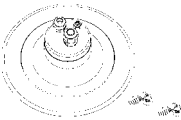
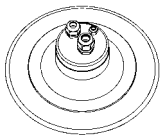
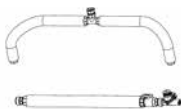
		Article	Type	Order No.
Expansion vessel 12 L with connection block		For solar panels with pressure systems of max. 2 x EKS21P - solar panels.	MAG S12	16 20 70
Expansion vessel 25 L with connection block		For solar panels with pressure systems of max. 3 solar panels.	MAG S 25	16 20 50
Expansion vessel 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	CON X 25 CON X 50 CON X 100	16 42 61 16 42 62 16 42 63							
	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
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	16 42 64							
On-roof roof penetration, anthracite	 Roof penetration pack with connection fittings and solar panel installation material, consisting of anthracite roof penetration, installation material for solar panel and connection pipe, 2 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	EKSRCAP	EKSRCAP							
On-roof roof penetration, tile red	 Roof penetration pack with connection fittings and solar panel installation material, consisting of tile red roof penetration, installation material for solar panel and connection pipe, 2 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	EKSRCRP	EKSRCRP							
Solar panel panel row connection	 Connection kit for connecting two rows of solar panels one above the other. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1 m thermally-insulated piping.	CON RVP	16 20 35-RTX							
Installation material, solar panel in-roof	 Ready to plug in including installation material and connection fittings.	RCIP	16 20 37-RTX							
Roof penetration, flat roof	 Roof penetration pack with connection fittings and solar panel installation material, consisting of flat-roof roof penetration, installation material for solar panel and connection pipe, 8.5 m UV-proof heat insulation for the outer area, connection fittings with detaching tools and panel temperature sensor.	RCFP	16 20 38-RTX							
Roof penetration flat-roof for alternate side solar panel connection	 Flat roof penetration with screw connections and blind plugs for penetration openings which are not used.	CON FE	16 47 09							
Solar panel boiler extension kit	 Connection kit for the connection of two warm-water storage tanks, consisting of drain-back connection tube and lead supply line.	CON SX	16 01 20							

Solar panels - drain-back system



		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				EKS-V21P	EKS-V26P	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	1.3	1.7	2.1
Surface	Outer		m ²	2.01		2.60
	Aperture		m ²	1.800		2.360
	Absorber		m ²	1.79		2.35
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle Min.-Max.				15~80		
Operating pressure Max.				6		
Stand still temperature Max.				192		
Thermal performance	collector efficiency (η _{col})		%	61		
	Zero loss collector efficiency η ₀		%	0.781		0.784
	Heat loss coefficient a ₁		W/m ² .K	4.240		4.250
	Temperature dependence of the heat loss coefficient a ₂		W/m ² .K ²	0.006		0.007
	Thermal capacity		kJ/K	4.9		6.5
Auxiliary	Solpump		W	-		
	Annual auxiliary electricity consumption Q _{aux}		kWh	-		
	Solstandby		W	-		

EKS-RPS4A/EKS-RDS2A

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				EKS-RPS4	EKS-RDS2A
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	6,4	6
Operation range	Ambient temperature	Min.-Max.	°C	5~40	~-40
Operating pressure Max.				-	6
Stand still temperature Max.				85	120
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption			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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FSC

ECPEN21-721

03/21



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Printed on non-chlorinated paper.