

# Product catalogue 2018

## Heating



All-in-one comfort for residential applications



Our promise...

... is to ensure that customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that our customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy-usage and we will innovate to further reduce the environmental impact of our heating solutions.

From residential to collective heating solutions, from renovation to new build, we commit ourselves to answer all our customers' needs. Our heat pump DNA combined with our in-house combustion development positions Daikin as a leader, for now and the decades to come.





# Table of content

Daikin World	2
Introduction	4
Award winning units	4
Top notch technologies	5
Heat Pump Keymark	5
Solutions overview	6
Stand By Me	8
Heat pumps	13
Daikin Altherma 3 R-32 low temperature heat pumps	14
Daikin Altherma 3 floor standing	16
Daikin Altherma 3 ECH <sub>2</sub> O	24
Daikin Altherma 3 wall mounted	32
Daikin Altherma R-410A low temperature heat pumps	38
Daikin Altherma floor standing	38
Daikin Altherma ECH <sub>2</sub> O	52
Daikin Altherma wall mounted	58
Daikin Altherma monobloc	68
Daikin Altherma High Temperature	74
Monobloc domestic hot water heat pump	78
Split domestic hot water heat pump	80
Daikin Altherma Flex Type	82
Daikin Altherma High Capacity	84
Daikin Altherma Ground source heat pump	86
Daikin Altherma Hybrid heat pump	94
Boilers	99
Gas condensing boilers	100
Wall mounted gas condensing boiler	102
Floor standing gas condensing boiler	110
A2 oil condensing boiler	114
Thermal stores and tanks	120
Solar	126
Controls	140
Low sound cover and heat emitter	144

# Award winning units

## thanks to an unique design

Heating products recently gathered all the most famous design awards: iF design and RedDot awards thanks to a brand-new design. Our wall mounted gas condensing boiler as well as our third generation heat pump (both floor standing and wall mounted models) received these design awards, putting the spotlight on our unique design.



reddot award 2018  
winner

Heating products are taking more and more importance within Daikin solutions portfolio. More products mean more solutions to cover all the needs. The design of the units is a major asset for customers that's why we decided to bring a brand-new design to our heating products.

The new design has to be discrete and modern, but also intuitive and user-friendly. The Daikin Eye has been developed to help both customers and installers getting the best experience possible while using the unit interface. The high-resolution colour controller is easy to use, and the Daikin Eye informs instantaneously if everything is working correctly.

All those features were rewarded with the most famous design awards: iF and RedDot design awards, for our high-end technology products.



Daikin Altherma 3 heat pumps



Wall mounted gas condensing boiler



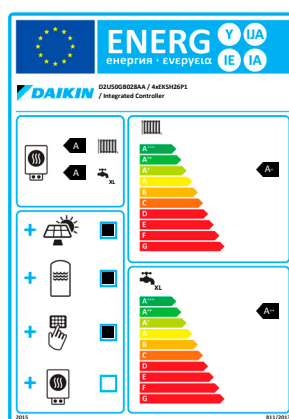
# Top-notch technologies and efficiency

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 CO<sub>2</sub> 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: A+++ (energy label 2019).

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 CO<sub>2</sub> emissions & more efficiency, the recipes for top-notch technologies.



## Heat Pump Keymark

A unique certificate for the European market












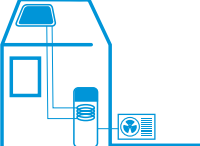




**The Heat Pump KEYMARK is a voluntary, independent, European certification mark for all heat pumps. It certifies space heating performance, sound power level, domestic hot water performance as well as operating tests.**

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.









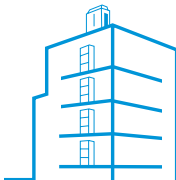


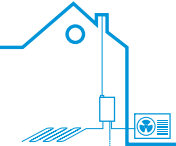


Find all our certified products on  
<http://www.heatpumpkeymark.com>

# Solutions overview

		Heat pumps				
		Air-to-water technology				
		Space heating and domestic hot water				
		R-32 Daikin Altherma low temperature split	R-410A Daikin Altherma low temperature split	Daikin Altherma low temperature monobloc	Daikin Altherma high temperature split	Monobloc domestic hot water heat pump
Products		<b>NEW</b> 				<b>NEW</b> 
Page		14	38	68	74	78
Set-up type						
Space heating (up to)		A <sup>+</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>+</sup>	-
Domestic hot water (up to)		A <sup>+++</sup> (1)	A <sup>+++</sup> (1)	-	B	A <sup>+</sup>
Renovation		-	•	•	•	•
New build		•	•	•	-	•
Tanks	Thermal stores EKHWC/D/P* 	•	A	A	B	-
	EKHTS-AC 	-	-	-	B	-
	EKHWS(U)-B 	-	B	A	-	-
	EKHWS(U)-D 	A	-	A	-	-
Controller	EKRUCBL	-	•	•	•	-
	EKRUDAS	•	-	-	-	-
	EKRT(R/W)	•	•	•	•	-
	System controller	•	•	•	•	-
Thermal Solar panels		•	•	•	-	•
Heat pump convector		•	•	•	-	-

(1) According to EU n°811/2013 - label lay-out 2019



			Hybrid		Combustion	
			Ground to water	Hybrid	Gas	Oil
Domestic hot water		Space heating	Space heating and domestic hot water			
Domestic hot water heat pump	Daikin Altherma Flex Type	Daikin Altherma LT High capacity	Daikin Altherma ground source heat pump	Daikin Altherma hybrid heat pump	Wall mounted	Floor standing
						
80	82	84	86	90	100	114
						
-	-	A <sup>+</sup>	A <sup>++</sup>	A <sup>++</sup>	A	A
A	A	-	A	A	A	A
●	-	-	-	●	●	●
●	●	●	●	●	●	●
-	-	-	-	●	A	A
-	A	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	●	-	●	●	-	-
-	-	-	-	-	-	-
●	●	-	●	-	-	-
-	●	-	-	-	-	-
●	●	-	-	●	●	●
-	-	-	●	●	-	-

# 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.



### Free warranty extension



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

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



### Quick follow-up by Daikin service partners

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

Your customer is guaranteed:

- ✓ quick and reliable service
- ✓ management of all information related to their installation such as, registration documents, attendance records, maintenance records, etc.
- ✓ realtime error codes are informing the service partner about possible issues



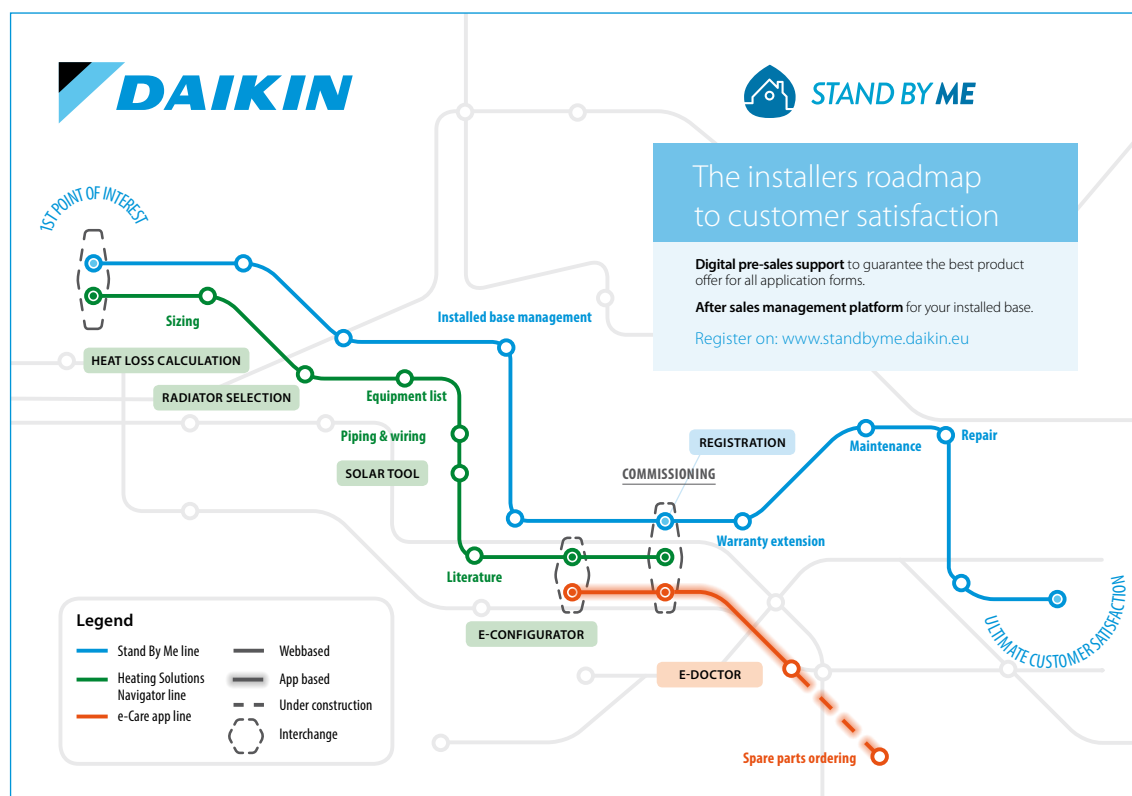
### Extended warranty on parts

For a small fee, customers can extend the warranty on specific parts. Contact your local Daikin branche to have more information about the specific offer in your country. **Stand By Me** guarantees:

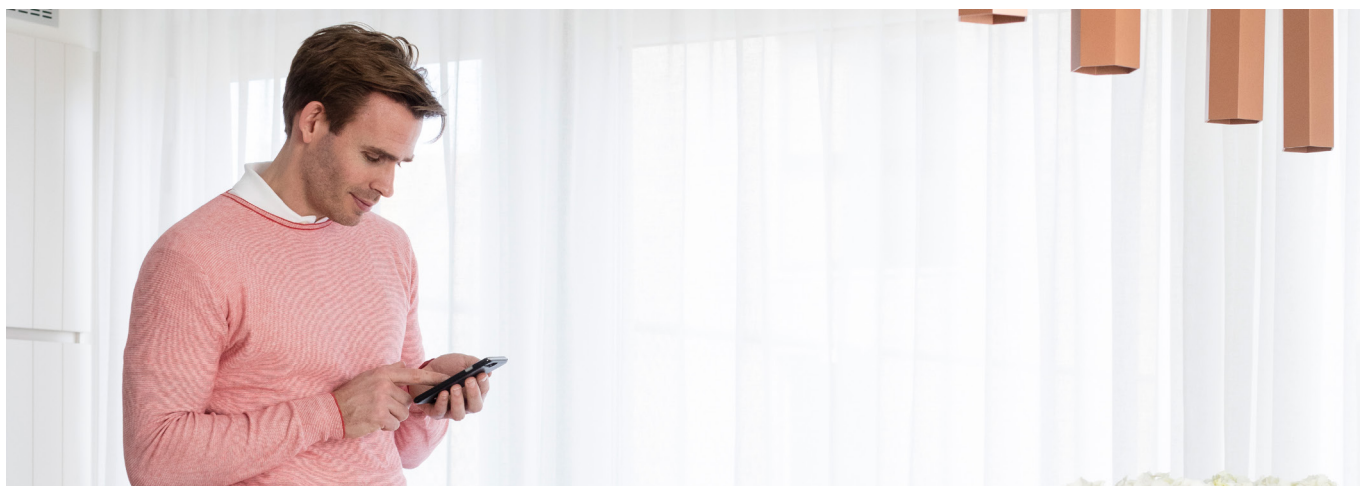
- ✓ that each component is replaced quickly
- ✓ helps avoid financial surprises
- ✓ long life and smooth operation and all other benefits of a Daikin installation
- ✓ reliable service from official Daikin service partners

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

### Stand By me roadmap overview





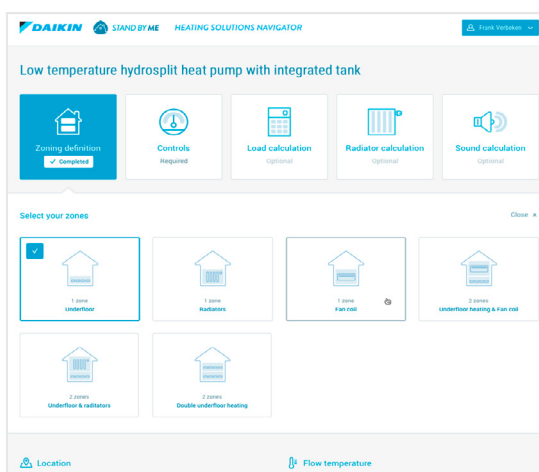
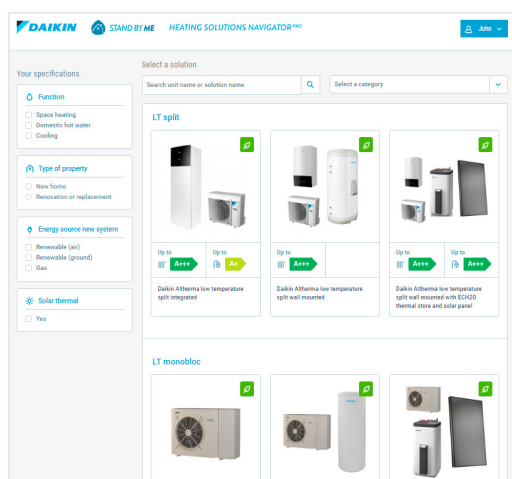


# Heating Solutions Navigator



Want to know more about our Heating Solutions Navigator?

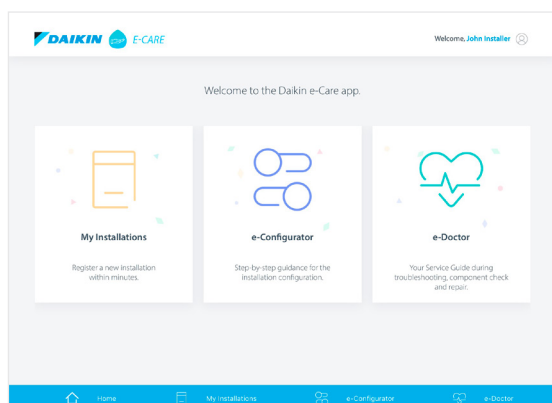
- › The Heating Solutions Navigator is a digital toolbox developed for Daikin professionals with the aim to assist in providing the best fit solution for your customers home.
- › With this tool you can configure your installation, create custom made piping & wiring diagrams, set the configuration on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



# E-Care app



The Daikin e-Care app wants to make the life of a Daikin installer easier by offering Stand By Me registrations via QR code scanning, easy configuration of your heating installation and trouble-shooting via the e-Doctor part.





# STAND BY ME

www.standbyme.daikin.eu

Stand By Me and the Heating Solutions Navigator are built to connect between yourself and Daikin to make your life easier.

DEMO



Interested in how the platform operates? Please scan the QR-codes to see a demo for each tool.

DEMO



## HEATING SOLUTIONS NAVIGATOR (HSN)

[professional.standbyme.daikin.eu](http://professional.standbyme.daikin.eu)

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.

DEMO



### SIZING

#### HSN Heat loss calculation tool/ Room by Room

The optional 'Room by Room' heat load calculation tool, is a tool which enable you to calculate the heat load in a property. Next to the Room by Room, a simplified heat load calculation is available.

DEMO



### RADIATOR

#### HSN Radiator Selection Tool

This Radiator selector tool supports customers in selecting the appropriate radiator size for each room.

### SOLAR

#### HSN Solar Selection Tool

The Solar Selection Tool shows the benefits of a DAIKIN solar system and supports professionals in selecting the right solar system for a house.



### EQUIPMENT LIST

### PIPING & WIRING

Customized piping and wiring diagrams are generated for each and every project, taking into account many parameters such as heat generator, zoning, emitter type and options.

### LITERATURE

### CONFIGURATION TOOL

The e-Configurator is a web based tool and app which allows installers to configure the settings of Daikin Altherma heat pumps remotely. Thanks to its user friendly and intuitive interface, configuration can be completed in a couple of steps. Then it can be stored as a pdf or saved in the USB stick/SD card to upload it in the heat pump on site.

### INSTALLED BASE MANAGEMENT

DEMO





## REGISTRATION

### Installation Registration

SBM is an after-sales service tool where end-users can extend the warranty on their installation or order maintenance packages. All Daikin professionals have an essential role in these service offerings.

With Stand By Me, you, as Daikin professional, can keep a complete digital logbook of your installed base of Daikin products and consult it via any mobile device.



**CONTACT YOUR  
LOCAL SBM/HSN SPECIALIST**

MAINTENANCE

REPAIR

WARRANTY  
EXTENSION



DEMO

### E-DOCTOR

#### Part of e-Care

Daikin e-Doctor is part of e-Care, an application to guide our Daikin colleagues and installers in troubleshooting a unit.

SPARE PARTS ORDERING

ULTIMATE CUSTOMER SATISFACTION

COMMISSIONING



DEMO

## E-CARE



*Stand By Me, a journey towards  
customer satisfaction*







# Table of content

## heat pumps

<b>Daikin Altherma 3 R-32 low temperature heat pumps</b>	<b>14</b>
Daikin Altherma 3 floor standing	16
Daikin Altherma 3 ECH <sub>2</sub> O	24
Daikin Altherma 3 wall mounted	32
<b>Daikin Altherma R-410A low temperature heat pumps</b>	<b>38</b>
Daikin Altherma floor standing	40
Daikin Altherma ECH <sub>2</sub> O	52
Daikin Altherma wall mounted	58
<b>Daikin Altherma monobloc</b>	<b>68</b>
<b>Daikin Altherma High Temperature</b>	<b>74</b>
<b>Monobloc domestic hot water heat pump</b>	<b>78</b>
<b>Split domestic hot water heat pump</b>	<b>80</b>
<b>Daikin Altherma Flex Type</b>	<b>82</b>
<b>Daikin Altherma High Capacity</b>	<b>84</b>
<b>Daikin Altherma Ground source heat pump</b>	<b>86</b>
<b>Daikin Altherma Hybrid heat pump</b>	<b>90</b>

# Daikin Altherma 3

powered by Bluevolution  
with R-32 refrigerant



## Why choose Daikin Altherma 3?

Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R32.



### High performance

- › Delivering temperatures up to 65°C at high efficiency, the R32 Daikin Altherma 3 is suitable for both underfloor heating and radiators and retains its pedigree trademark in frost protection down to -25°C, ensuring reliable operation even in the coldest climates.
- › The optimal combination of Bluevolution technology offers the highest performance:
  - » seasonal efficiency up to A+++ (energy label 2019)
  - » 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 work: all key hydraulic elements are already factory mounted
- › The new design enables that all servicing can be done from the front and all piping can be accessed at the top of the unit
- › Stylish modern outlook
- › The outdoor unit is tested and charged with refrigerant, installation time is reduced

### Easy commissioning :

- › Integrated high resolution colour interface
- › Quick wizard allowing commissioning in maximum 9 easy steps to have the full system ready to work
- › Next to that the 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 compressors maximises the efficiency of the new R32 Daikin Altherma 3 at each outdoor temperature, assuring consistent room temperatures at all times.
- › To control on a daily basis your home temperature, settings can be done anywhere at any time via the Daikin Online Controller app. This online controller allows adjustment of home comfort levels to suit individual preferences while achieving further energy efficiencies. The R32 Daikin Altherma 3 range can also be fully integrated with other home control systems



Control  
via app

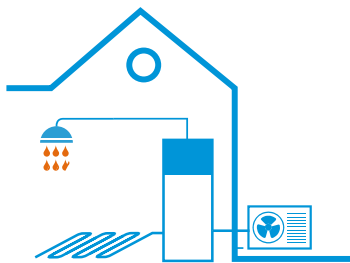
## Daikin Altherma 3

offers a wide range to adapt to your customers needs

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



To cover all applications, the R32 Daikin Altherma 3 is available in 3 different indoor units



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



Floor standing unit with integrated ECH<sub>2</sub>O tank

### Integrated solar unit and domestic hot water tank

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



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



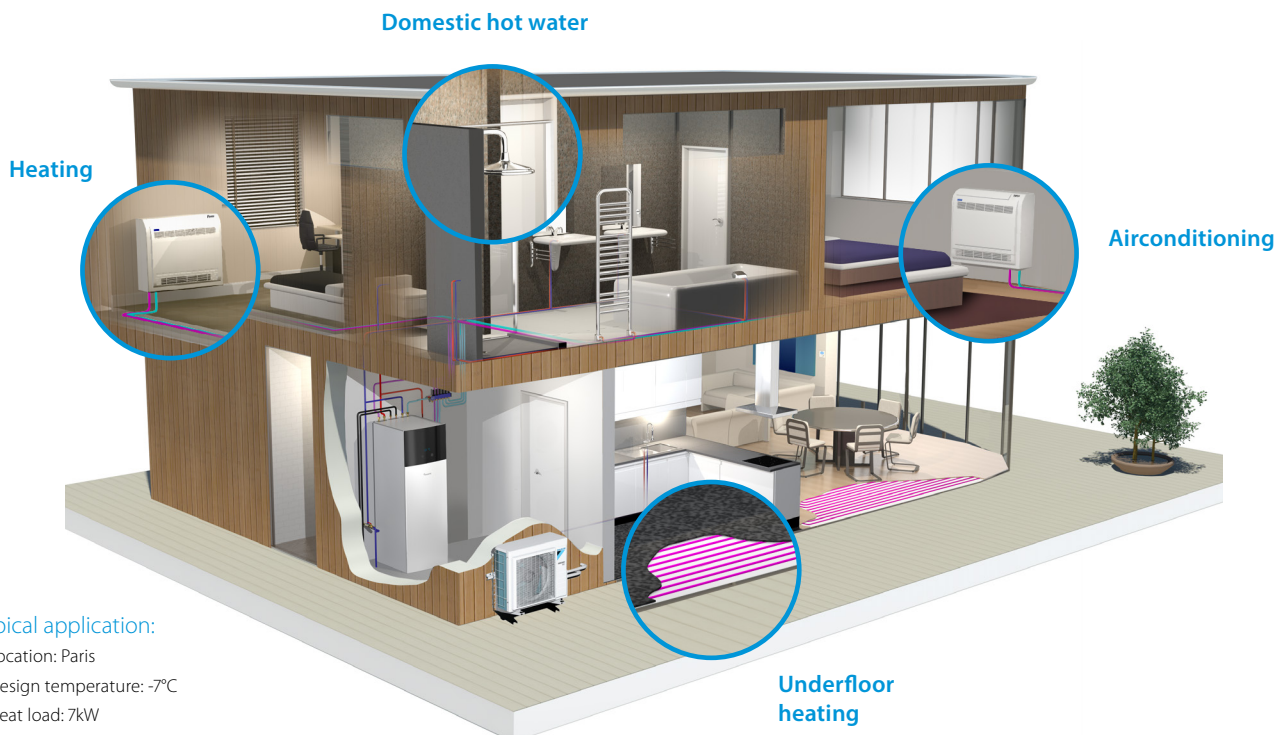
# Daikin Altherma 3 floor standing unit with integrated domestic hot water tank

## 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 600 mm
- › Integrated back-up heater choice of 3, 6, 9 kW as well as back-up heater less models are available
- › Dedicated bi-zone models allowing temperature monitoring for 2 zones connect underfloor heating to radiators for optimise efficiency



# All-in one design

## Reduces the installation footprint and height

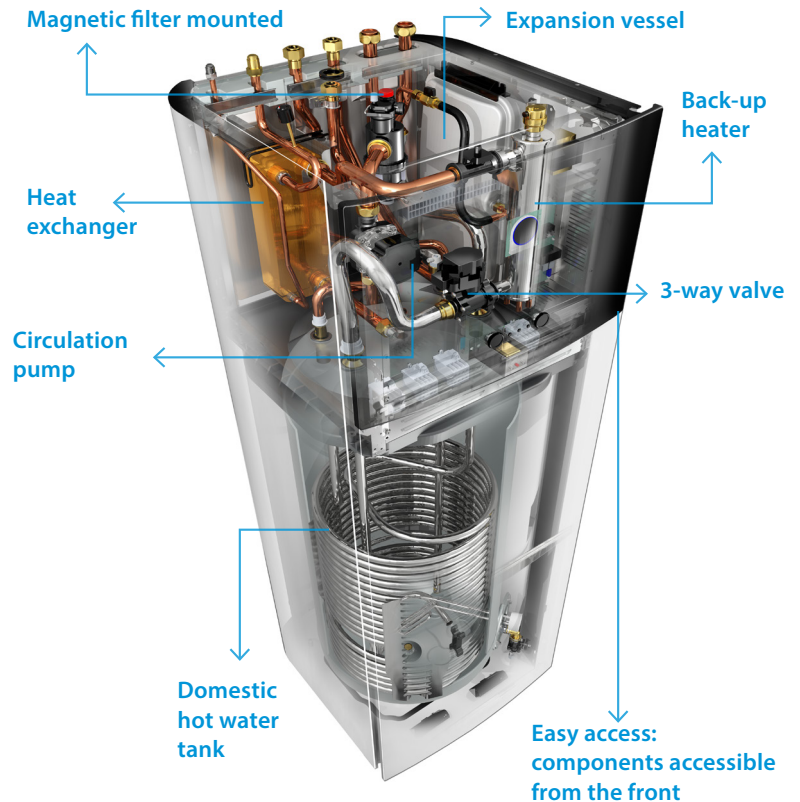
Compared to the traditional split version for a wall mounted indoor unit and a separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

With a small footprint of 595 x 600 mm, the integrated indoor unit has a similar footprint when compared to other household appliances.

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

With an installation height of 1,65 m for an 180 L tank and 1,85 m for a 230 L tank, the required installation height is less than 2m.

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



## Advanced user interface



### The Daikin Eye

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

Blue is perfect! Should the eye turn red, an error has occurred.

### Quick to configure

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

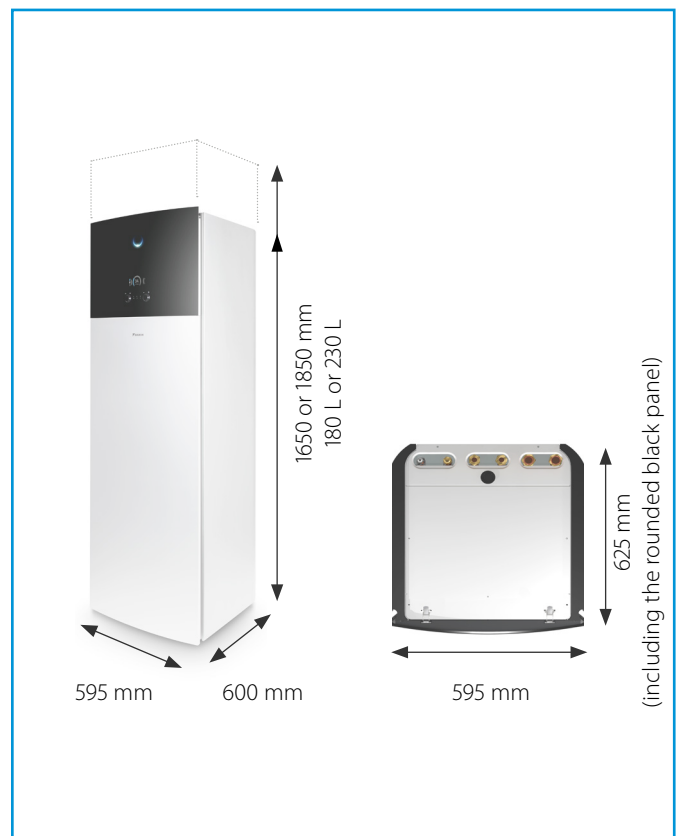
### Easy operation

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



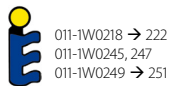
# Daikin Altherma 3

## low temperature split

## integrated floor standing unit

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

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › 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 600 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -25°C



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



A+++





A+

65°C

R-32

(3)

Efficiency data					EHVH + ERGA		04S18D6V(G)+04DV	04S23D6V(G)+04DV	08S18D6V(G)/D9W(G)+06DV	08S23D6V(G)/D9W(G)+06DV	08S18D6V(G)/D9W(G)+08DV	08S23D6V(G)/D9W(G)+08DV	
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)		
	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+++ (3)				
	General	Declared load profile			L		XL		L		XL		
	Average climate	ηwh (water heating efficiency)	%		125		133		125		133		
	Water heating energy efficiency class								A+				
Indoor Unit					EHVH		04S18D6V(G)	04S23D6V(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)	
Casing	Colour					White + Black							
	Material					Resin / Sheet metal							
Dimensions	Unit	HeightxWidthxDepth		mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	
Weight	Unit			kg	131	139	131	139	131	139	131	139	
Tank	Water volume			l	180	230	180	230	180	230	180	230	
	Maximum water temperature			°C	60								
	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	60							
Sound power level	Nom.			dBA	42								
Sound pressure level	Nom.			dBA	28								
Outdoor Unit					ERGA		04DV		06DV		08DV		
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388								
Weight	Unit			kg	58.5								
Compressor	Quantity				1								
	Type				Hermetically sealed swing compressor								
Operation range	Cooling	Min.~Max.		°CDB	10~43								
	Domestic hot water	Min.~Max.		°CDB	-25~35								
Refrigerant	Type				R-32								
	GWP				675.0								
	Charge			kg	1.50								
	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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Daikin Altherma 3

## low temperature split

## integrated floor standing unit

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

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 600 mm
- › Integrated back-up heater choice of 3, 6, 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -25°C



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



A+++





A+

65°C

R-32

(3)

Efficiency data				EHVX + ERGA	04S18D3V(G)/ D6V(G) + 04DV	04S23D3V(G)/ D6V(G) + 04DV	08S18D6V(G)/ D9W(G) + 06DV	08S23D6V(G)/ D9W(G) + 06DV	08S18D6V(G)/ D9W(G) + 08DV	08S23D6V(G)/ D9W(G) + 08DV
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	5.56 (1) / 4.37 (2)		5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)	
Power input	Cooling	Nom.		kW	0,940 (1) / 1.14 (2)		1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)	
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)	
EER					5.94 (1) / 3.84 (2)		5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)	
 Space heating	Average climate	General	SCOP	ηs (Seasonal space heating efficiency)	3.26				3.32	
	water outlet 55°C		Seasonal space heating eff. class	%	127				130	
					A++					
	Average climate	General	SCOP	ηs (Seasonal space heating efficiency)	4.48		4.47		4.56	
	water outlet 35°C		Seasonal space heating eff. class	%	176				179	
					A+++ (3)					
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)	%		127	134	125	133	125	133
	Water heating energy efficiency class				A+					
Indoor Unit				EHVX	04S18D3V(G)/ D6V(G)	04S23D3V(G)/ D6V(G)	08S18D6V(G)/ D9W(G)	08S23D6V(G)/ D9W(G)	08S18D6V(G)/ D9W(G)	08S23D6V(G)/ D9W(G)
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm		1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit				kg	131	139	131	139	131
Tank	Water volume				l	180	230	180	230	180
	Maximum water temperature				°C	60				
	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	60					
Sound power level	Nom.				dBA	42				
Sound pressure level	Nom.				dBA	28				
Outdoor Unit				ERGA	04DV		06DV		08DV	
Dimensions	Unit	HeightxWidthxDepth	mm		740x884x388					
Weight	Unit				kg	58.5				
Compressor	Quantity					1				
	Type					Hermetically sealed swing compressor				
Operation range	Cooling	Min.~Max.	°CDB		10~43					
	Domestic hot water	Min.~Max.	°CDB		-25~35					
Refrigerant	Type					R-32				
	GWP					675.0				
	Charge				kg	1.50				
	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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.



# Daikin Altherma 3

## low temperature split integrated bi-zone

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

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 600 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -25°C





011-1W0218 → 222



(3)



Efficiency data				EHVZ + ERGA	04S18D6V(G) + 04DV	08S18D6V(G)/D9W(G) + 06DV	08S23D6V(G)/D9W(G) + 06DV	08S18D6V(G)/D9W(G) + 08DV	08S23D6V(G)/D9W(G) + 08DV	
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.		kW	0.850 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
 Space heating	Average climate	General	SCOP		3.26		3.32			
	water outlet		ηs (Seasonal space heating efficiency)	%	127		130			
	55°C		Seasonal space heating eff. class		A++					
	Average climate	General	SCOP		4.48	4.47		4.56		
	water outlet		ηs (Seasonal space heating efficiency)	%	176		179			
	35°C		Seasonal space heating eff. class		A+++ (3)					
 Domestic hot water heating	General	Declared load profile			L		XL	L	XL	
	Average climate	ηwh (water heating efficiency)			%	125	133	125	133	
	Water heating energy efficiency class				A+					
Indoor Unit					EHVZ	04S18D6V(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)	08S18D6V(G)/D9W(G)	08S23D6V(G)/D9W(G)
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm		1,650x595x625		1,850x595x625	1,650x595x625	1,850x595x625	
Weight	Unit				kg	136		144	136	144
Tank	Water volume				l	180		230	180	230
	Maximum water temperature				°C	60				
	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	60					
Sound power level	Nom.				dBA	42				
Sound pressure level	Nom.				dBA	28				
Outdoor Unit					ERGA	04DV	06DV		08DV	
Dimensions	Unit	HeightxWidthxDepth	mm		740x884x388					
Weight	Unit				kg	58.5				
Compressor	Quantity					1				
	Type					Hermetically sealed swing compressor				
Operation range	Cooling	Min.~Max.		°CDB	10~43					
	Domestic hot water	Min.~Max.		°CDB	-25~35					
Refrigerant	Type					R-32				
	GWP					675.0				
	Charge				kg	1.50				
	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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.



# Daikin Altherma 3

## low temperature split

## integrated floor standing

## unit without backup heater

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

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 600 mm
- › Outdoor unit extracts heat from the outdoor air, even at -25°C





011-1W0218 → 220  
011-1W0245, 247  
011-1W0249, 251



(3)







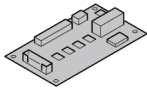
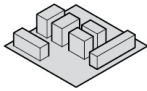







Efficiency data				EHVH + ERGA	04S23DV(G) + 04DV	08S23DV(G) + 06DV	08S23DV(G) + 08DV	
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)	
Power input	Heating	Nom.			kW	0.850 (1) / 1.26 (2)	1,24 (1) / 1,69 (2)	1,63 (1) / 2.23 (2)
COP					5.10 (1) / 3.65 (2)	4,85 (1) / 3,50 (2)	4,60 (1) / 3.50 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.26		3.32	
			ηs (Seasonal space heating efficiency)	%	127		130	
			Seasonal space heating eff. class		A++			
	Average climate water outlet 35°C	General	SCOP		4.48	4.47	4.56	
			ηs (Seasonal space heating efficiency)	%	176		179	
			Seasonal space heating eff. class		A+++ (3)			
 Domestic hot water heating	General	Declared load profile			XL			
	Average	ηwh (water heating efficiency)			%	134		
	climate	Water heating energy efficiency class				A+		
Indoor Unit				EHVH	04S23DV(G)	08S23DV(G)	08S23DV(G)	
Casing	Colour				White + Black			
	Material				Resin / Sheet metal			
Dimensions	Unit	HeightxWidthxDepth		mm	1,850x595x625			
Weight	Unit			kg	139			
Tank	Water volume			l	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	10 ~70			
	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	04DV	06DV	08DV	
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388			
Weight	Unit			kg	58.5			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Cooling	Min.~Max.		°CDB	10~43			
	Domestic hot water	Min.~Max.		°CDB	-25~35			
Refrigerant	Type				R-32			
	GWP				675.0			
	Charge			kg	1.50			
	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) Condition 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) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Options

Type		Material name		Daikin Altherma 3 LT split Wall mounted	Daikin Altherma 3 LT split Floor standing
Controls	Remote user interface	EKRUDAS		•	•
	LAN Adapter + PV Solar connection	BRP069A61		•	•
	LAN only	BRP069A62		•	•
	Room thermostat (wired)	EKRTWA		•	•
	Room thermostat (wireless)	EKRTR1		•	•
	External sensor	EKRTETS		•	•
Adapter	Demand PCB	EKRP1AHTA		•	•
	Digital I/O PCB	EKRP1HBAA		•	•
Back-up heater	Back-up heater kit	EKLBUHCB6W1			• only for EHVH-DV(G)
Installation	Bi-zone kit (watts kit)	BZKA7V3		•	• (excluding EHVZ)
Sensors	Remote indoor sensor	KRCS01-1		•	•
	Remote outdoor sensor	EKRSCA-1		•	•
Others	PC USB Cable	EKPCCAB3		•	•
	Conversion kit	EKHBCONV		•	
		EKHVCONV			•
	Low sound cover for ERGA-D	EKLN-A		•	•







# Daikin Altherma 3 ECH<sub>2</sub>O

The Daikin Altherma low temperature split integrated ECH<sub>2</sub>O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling

## Intelligent storage management

- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
- › Electronic management of both heat pump and ECH<sub>2</sub>O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- › Achieves the highest standards for water sanitation
- › Uses more renewable energy with solar connection

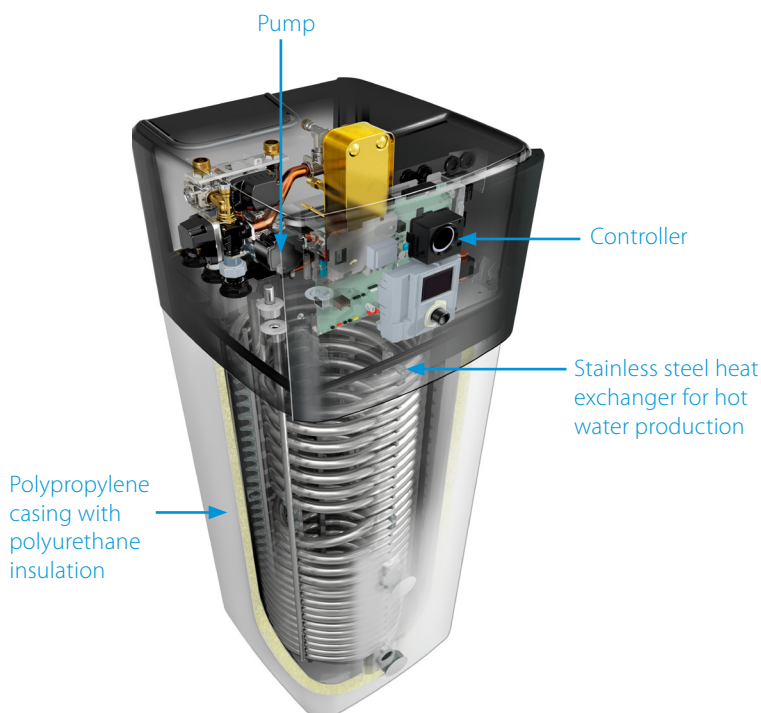
## Innovative and high-quality tank

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

## Combinable with other heat sources

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

## ECH<sub>2</sub>O



## 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.

## ECH<sub>2</sub>O thermal store range: additional hot water comfort

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

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

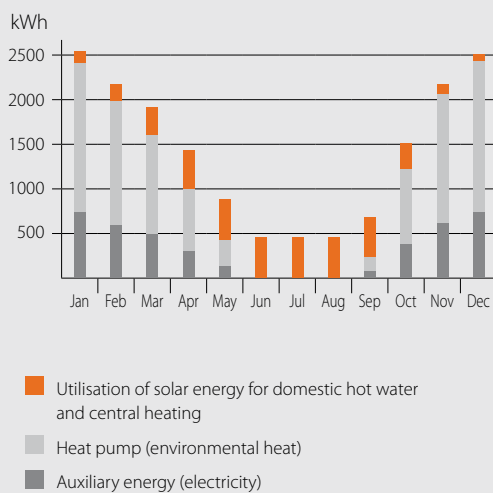
### Pressureless (drain-back) solar system (EHS-D, EHSX-D)

- › 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 (EHSB-D, EHSXB-D)

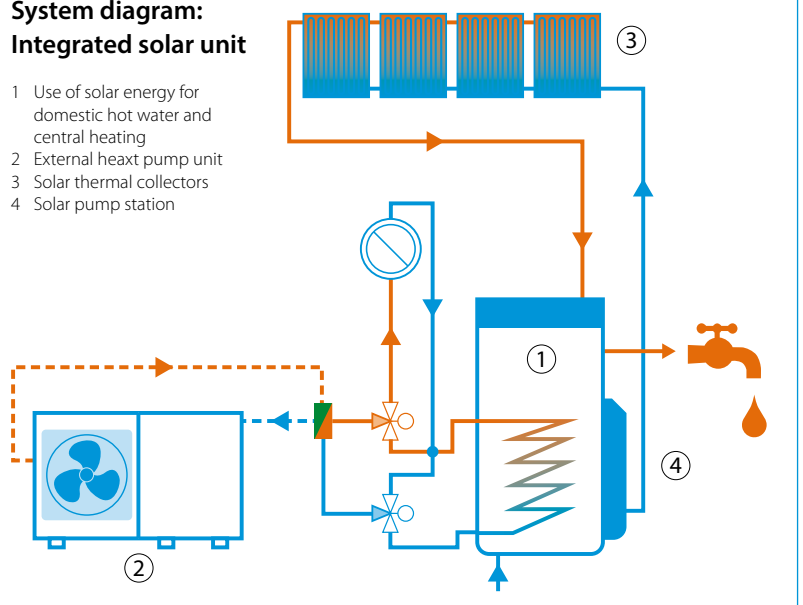
- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed

**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 ECH<sub>2</sub>O

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

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



Efficiency data				EHS + ERGA	04P30D + 04DV	08P30D + 06DV	08P50D + 06DV	08P30D + 08DV	08P50D + 08DV
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)	
Power input	Heating	Nom.			kW	0.85 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.26			3.32	
			η <sub>s</sub> (Seasonal space heating efficiency)	%	127			130	
	Seasonal space heating eff. class				A++				
	Average climate water outlet 35°C	General	SCOP		4.48	4.47		4.56	
			η <sub>s</sub> (Seasonal space heating efficiency)	%	176		179		
	Seasonal space heating eff. class				A+++ (3)				
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	
	Average	η <sub>wh</sub> (water heating efficiency)			108	106	108	106	
	climate	Water heating energy efficiency class			A				
Indoor Unit				EHS	04P30D	08P30D	08P50D	08P30D	08P50D
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)				
	Material				Impact resistant polypropylene				
Dimensions	Unit	HeightxWidthxDepth			mm	1891x595x615	1896x790x790	1891x595x615	1896x790x790
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	39.1				
Sound pressure level	Nom.			dBA	28				
Outdoor Unit				ERGA	04DV	06DV		08DV	
Dimensions	Unit	HeightxWidthxDepth			mm	740x884x388			
Weight	Unit				kg	58.5			
Compressor	Quantity				1				
	Type				Hermetically sealed swing compressor				
Operation range	Cooling	Min.~Max.			°CDB	10.0~43.0			
	Domestic hot water	Min.~Max.			°CDB	-25 ~35			
Refrigerant	Type					R-32			
	GWP					675.0			
	Charge				kg	1.50			
	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)



(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Daikin Altherma 3 ECH<sub>2</sub>O

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

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



Efficiency data				EHSB + ERGA	04P30D + 04DV	08P30D + 06DV	08P50D + 06DV	08P30D + 08DV	08P50D + 08DV	
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.		kW	0.85 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
 Space heating	Average climate water outlet 55°C	General	SCOP		3.26		3.32			
			ηs (Seasonal space heating efficiency)	%	127		130			
			Seasonal space heating eff. class		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+++ (3)					
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL		
	Average climate	ηwh (water heating efficiency)		%	108	109	108	109		
		Water heating energy efficiency class			A					
Indoor Unit				EHSB	04P30D	08P30D	08P50D	08P30D	08P50D	
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1891x595x615		1896x790x790	1891x595x615	1896x790x790	
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	39.1					
Sound pressure level	Nom.			dBA	28					
Outdoor Unit				ERGA	04DV	06DV		08DV		
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388					
Weight	Unit				kg	58.5				
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Cooling	Min.~Max.		°CDB	10.0~43.0					
	Domestic hot water	Min.~Max.		°CDB	-25 ~35					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge				kg	1.50				
	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)



(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Daikin Altherma 3 ECH<sub>2</sub>O

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

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



Efficiency data				EHSX + ERGA	04P30D + 04DV	04P50D + 04DV	08P30D + 06DV	08P50D + 06DV	08P30D + 08DV	08P50D + 08DV
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)	
Cooling capacity	Nom.			kW	5.56 (1) / 4.37 (2)		5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)	
Power input	Cooling	Nom.		kW	0.94 (1) / 1.14 (2)		1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)	
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)	
EER					5.94 (1) / 3.84 (2)		5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.26				3.32	
			η <sub>s</sub> (Seasonal space heating efficiency)	%	127				130	
	Average climate water outlet 35°C	General	Seasonal space heating eff. class				A++			
			SCOP		4.48		4.47		4.56	
 Domestic hot water heating	Average climate	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	176				179	
			Seasonal space heating eff. class				A+++ (3)			
	Declared load profile	Average climate	η <sub>wh</sub> (water heating efficiency)	%	L	XL	L	XL	L	XL
			Water heating energy efficiency class		108	106	108	106	108	106
					A					
Indoor Unit				EHSX	04P30D	04P50D	08P30D	08P50D	08P30D	08P50D
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth	mm		1891x595x615	1896x790x790	1891x595x615	1896x790x790	1891x595x615	1896x790x790
Weight	Unit		kg		73	93	73	93	73	93
Tank	Water volume		l		294	477	294	477	294	477
Operation range	Maximum water temperature			°C	85					
	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	39.1						
Sound pressure level	Nom.		dBA	28						
Outdoor Unit				ERGA	04DV	06DV	08DV			
Dimensions	Unit	HeightxWidthxDepth	mm		740x884x388					
Weight	Unit		kg		58.5					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~43.0					
	Domestic hot water	Min.~Max.	°CDB		-25 ~35					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge		kg		1.50					
	Control				Expansion valve					
Sound power level	Heating	Nom.	dBA		58	60	62			
	Cooling	Nom.	dBA		61					
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)



(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Daikin Altherma 3 ECH<sub>2</sub>O

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

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














Efficiency data				EHSXB + ERGA	04P30D + 04DV	04P50D + 04DV	08P30D + 06DV	08P50D + 06DV	08P30D + 08DV	08P50D + 08DV
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)	
Cooling capacity	Nom.			kW	5.56 (1) / 4.37 (2)		5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)	
Power input	Cooling	Nom.		kW	0.94 (1) / 1.14 (2)		1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)	
COP					5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)	
EER					5.94 (1) / 3.84 (2)		5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP	%	3.26				3.32	
			η <sub>s</sub> (Seasonal space heating efficiency)	%	127				130	
	Average climate water outlet 35°C	General	Seasonal space heating eff. class				A++			
			SCOP	%	4.48		4.47		4.56	
 Domestic hot water heating	Average climate	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	176				179	
			Seasonal space heating eff. class				A+++ (3)			
	Declared load profile	Average	η <sub>wh</sub> (water heating efficiency)	%	L	XL	L	XL	L	XL
			Water heating energy efficiency class		108	109	108	109	108	109
					A					
Indoor Unit				EHSXB	04P30D	04P50D	08P30D	08P50D	08P30D	08P50D
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth		mm	1891x595x615	1896x790x790	1891x595x615	1896x790x790	1891x595x615	1896x790x790
Weight	Unit				76	99	76	99	76	99
Tank	Water volume				294	477	294	477	294	477
Operation range	Maximum water temperature			°C	85					
	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.				39.1					
Sound pressure level	Nom.				28					
Outdoor Unit				ERGA	04DV		06DV		08DV	
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388					
Weight	Unit				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				1.50					
	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				V3/1N~/50/230					
Current	Recommended fuses				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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

## Options

Type		Material name	Daikin Altherma 3 ECH <sub>2</sub> O
Controls	Room thermostat	RoCon U1 / EHS157034	
	Mixer module	RoCon M1 / EHS157068	
	Outdoor sensor for RoCon controller	RoCon OT1 / 156070	
	Gateway for apps	RoCon G1 / EHS157056	
Back-up heater	Back-up heater 1 kW + Switchbox	EKBUB1C + EKBUHSWB	
	Back-up heater 3 kW + Switchbox	EKBUB3C + EKBUHSWB	
	Back-up heater 9 kW + Switchbox	EKBUB9C + EKBUHSWB	
Hydraulics	Hydraulic separator	HWC / 172900	
	Heat insulation for HWC	WHWC / 172901	
Pump group	Mixing group with integrated high efficiency pump	MK1 / 156067	
	Mixing group with integrated high efficiency pump (PWM)	MK2 / 156072	
	Pump group with mixer module	156075	
	Pump group without mixer module	156077	
Additional connections	Connection kit for MK1	VMK1 / 156063	
	Dirt separator SAS1	SAS1 / 156021	
	Dirt separator SAS2	SAS2 / 156023	
	Biv connector kit	141589	
	DB connector kit	141590	
	Terminal connection kit	141592	
	Connector external heater	141591	
Other	Low sound cover for ERGA-D	EKLN-A	





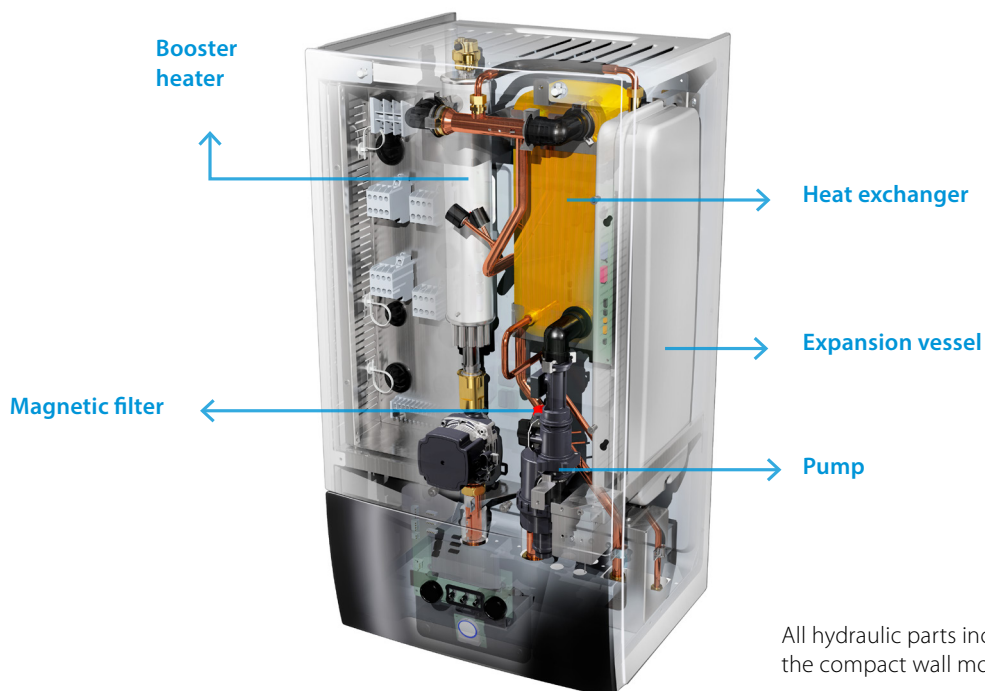
# Daikin Altherma 3 wall mounted unit

## 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 ECH<sub>2</sub>O 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 ECH<sub>2</sub>O thermal stores.

### ECH<sub>2</sub>O thermal store range: additional hot water comfort

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

- › Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- › 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



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



# Daikin Altherma 3

## low temperature split

## wall mounted unit

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

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required.
- › The unit's sleek design blends in with other household appliances.
- › Combine with a stainless steel tank or ECH<sub>2</sub>O thermal store.
- › Outdoor unit extracts heat from the outdoor air, even at -25°C




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



(3)



Efficiency data				EHBH + ERGA	04D6V + 04DV	08D6V + 06DV	08D9W + 06DV	08D6V + 08DV	08D9W + 08DV	
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.			kW	0.85 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)	
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
 Space heating	Average climate	General	SCOP		3.26			3.32		
	water outlet		ηs (Seasonal space heating efficiency)	%	127			130		
	55°C		Seasonal space heating eff. class		A++					
	Average climate	General	SCOP		4.48	4.47		4.56		
	water outlet		ηs (Seasonal space heating efficiency)	%	176			179		
	35°C		Seasonal space heating eff. class		A+++ (3)					
Indoor Unit				EHBH	04D6V	08D6V	08D9W	08D6V	08D9W	
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	840x440x390					
Weight	Unit				kg	42.0		42.4	42.0	42.4
Operation range	Heating	Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Water side	Min.~Max.	°C	25~80					
Sound power level	Nom.				dBA	42				
Sound pressure level	Nom.				dBA	28				
Outdoor Unit				ERGA	04DV	06DV		08DV		
Dimensions	Unit	HeightxWidthxDepth		mm	740x884x388					
Weight	Unit				kg	58.5				
Compressor	Quantity					1				
	Type					Hermetically sealed swing compressor				
Operation range	Cooling	Min.~Max.		°CDB	10~43					
	Domestic hot water	Min.~Max.		°CDB	-25~35					
Refrigerant	Type					R-32				
	GWP					675.0				
	Charge				kg	1.50				
	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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.

# Daikin Altherma 3 low temperature split wall mounted unit

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

- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required.
- › The unit's sleek design blends in with other household appliances.
- › Combine with a stainless steel tank or ECH<sub>2</sub>O thermal store.
- › Outdoor unit extracts heat from the outdoor air, even at -25°C




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



(3)









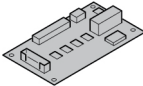
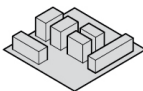





Efficiency data				EHBX + ERGA	04D6V + 04DV	08D6V + 06DV	08D9W + 06DV	08D6V + 08DV	08D9W + 08DV	
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.		kW	0.850 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		
Cooling capacity	Nom.			kW	5.56 (1) / 4.37 (2)	5.96 (1) / 4.87 (2)		6.25 (1) / 5.35 (2)		
Power input	Cooling	Nom.		kW	0.940 (1) / 1.14 (2)	1.06 (1) / 1.33 (2)		1.16 (1) / 1.51 (2)		
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
EER					5.94 (1) / 3.84 (2)	5.61 (1) / 3.67 (2)		5.40 (1) / 3.54 (2)		
	Average climate water outlet 55°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	3.26		3.32		
						127		130		
				Seasonal space heating eff. class		A++				
	Average climate water outlet 35°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	4.48	4.47		4.56	
						176		179		
				Seasonal space heating eff. class		A+++ (3)				
Indoor Unit				EHBX	04D6V	08D6V	08D9W	08D6V	08D9W	
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm	840x440x390						
Weight	Unit		kg	42.0			42.4	42.0	42.4	
Operation range	Heating	Water side	Min.~Max.	°C	15 ~65					
	Domestic hot water	Water side	Min.~Max.	°C	25~80					
Sound power level	Nom.		dBA	42						
Sound pressure level	Nom.		dBA	28						
Outdoor Unit				ERGA	04DV	06DV		08DV		
Dimensions	Unit	HeightxWidthxDepth	mm	740x884x388						
Weight	Unit		kg	58.5						
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Cooling	Min.~Max.	°CDB	10~43						
	Domestic hot water	Min.~Max.	°CDB	-25~35						
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge	kg			1.50					
	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)

(3) According to EU n°811/2013 label lay-out 2019, on a scale from G to A+++.



# Options

Type		Material name		Daikin Altherma 3 LT split Wall mounted	Daikin Altherma 3 LT split Floor standing
Controls	Remote user interface	EKRUDAS		●	●
	LAN Adapter + PV Solar connection	BRP069A61		●	●
	LAN only	BRP069A62		●	●
	Room thermostat (wired)	EKRTWA		●	●
	Room thermostat (wireless)	EKRTR1		●	●
	External sensor	EKRTETS		●	●
Adapter	Demand PCB	EKR1AHTA		●	●
	Digital I/O PCB	EKR1HBAA		●	●
Back-up heater	Back-up heater kit	EKLBUHCB6W1			only for EHVH-DV(G)
Installation	Bi-zone kit (watts kit)	BZKA7V3		●	(excluding EHVZ)
Sensors	Remote indoor sensor	KRCS01-1		●	●
	Remote outdoor sensor	EKRSCA-1		●	●
Others	PC USB Cable	EKPCCAB3		●	●
	Conversion kit	EKHBCONV		●	
		EKHVCONV			●
	Low sound cover for ERGA-D	EKLN-A		●	●



**R-410A**

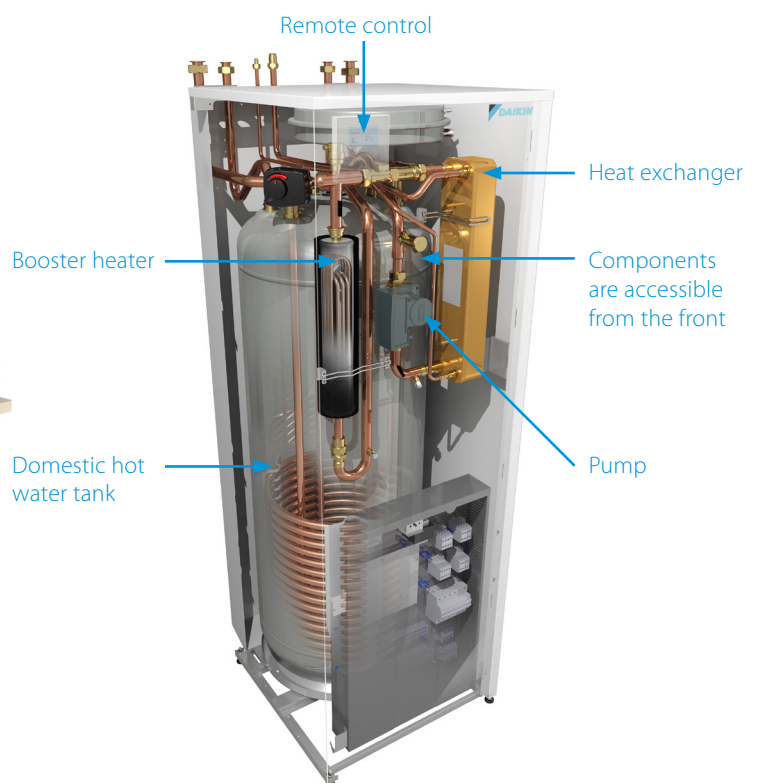
# Daikin Altherma low temperature split floor standing unit with integrated domestic hot water tank



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

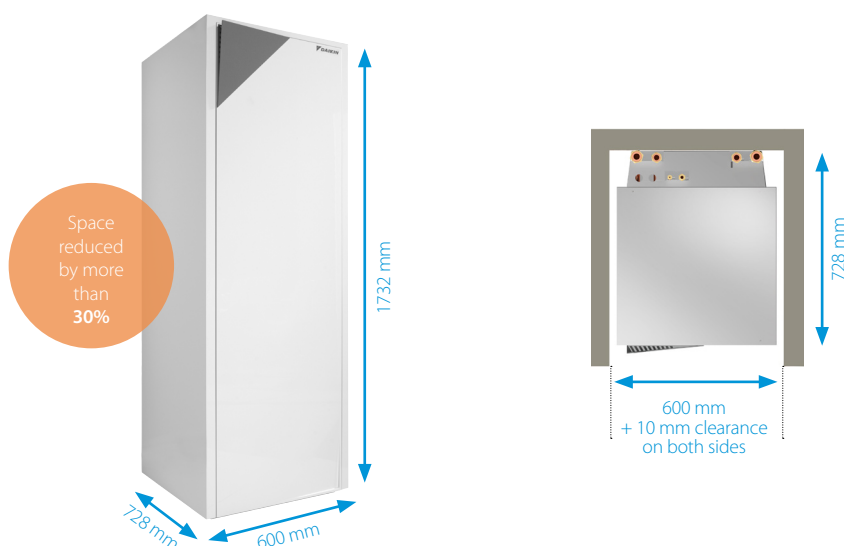
Compared to the traditional split version for a wall mounted indoor unit and separate domestic hot water tank, the integrated indoor unit greatly reduces the installation space required.

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 m<sup>2</sup>.

Low installation height: both the 180l and 260l 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
- Online 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		04S18CB3V / +004CV3		08S26CB9W / 08S18CB3V +006CV3		08S18CB3V / 08S26CB9W +008CV3		11S18CB3V / 11S26CB9W +011CV3		16S18CB3V / 16S26CB9W +014CV3		16S18CB3V / 16S26CB9W +016CV3		11S18CB3V / 11S26CB9W +011CW1		16S18CB3V / 16S26CB9W +014CW1		16S18CB3V / 16S26CB9W +016CW1					
Heating capacity		Nom.		kW		4.40 / 4.03		6.00 / 5.67		7.40 / 6.89		11.2 / 11.0		14.5 / 13.6		16.0 / 15.2		11.2 / 11.0		14.5 / 13.6		16.0 / 15.2					
Power input		Heating		Nom.		kW		0.870 / 1.13		1.27 / 1.59		1.66 / 2.01		2.43 / 3.10		3.37 / 4.10		3.76 / 4.66		3.42 / 4.21		3.37 / 4.10		3.76 / 4.66			
COP						5.04 / 3.58		4.74 / 3.56		4.45 / 3.42		4.60 / 2.75		4.30 / 2.65		4.25 / 2.64		4.60 / 2.75		4.30 / 2.65		4.25 / 2.64					
Space heating		Average climate water outlet 55°C		General		SCOP		3.20		3.22		3.20		3.09		3.16		3.06		3.09		3.16		3.06			
						ηs (Seasonal space heating efficiency)		%		125		126		125		120		123		119		120		123		119	
		Average climate water outlet 35°C		General		Seasonal space heating eff. class		A++						A+													
						SCOP		4.52		4.29		4.34		3.98		3.90		3.80		3.98		3.90		3.80			
Domestic hot water heating		Average climate		General		ηs (Seasonal space heating efficiency)		178		169		171		156		153		149		156		153		149			
						Seasonal space heating eff. class		A++						A+		A++		A+									
		Declared load profile		General		Water heating energy efficiency class		L		XL		L		XL		L		XL		L		XL		L		XL	
						ηwh (water heating efficiency)		%		95.0		90.0		86.4		90.0		87.4		97.7		87.4		97.7		87.4	

Indoor Unit				EHVH	04S18CB3V		08S26CB9W / 08S18CB3V		08S18CB3V / 08S26CB9W		11S18CB3V / 11S26CB9W		16S18CB3V / 16S26CB9W		16S18CB3V / 16S26CB9W		11S18CB3V / 11S26CB9W		16S18CB3V / 16S26CB9W		16S18CB3V / 16S26CB9W		
Casing	Colour				White																		
	Material				Precoated sheet metal																		
Dimensions	Unit	HeightxWidthxDepth	mm	1,732x600x728																			
Weight	Unit		kg	116	127	117	127	117	126	118	128	118	128	117	126	118	128	118	128				
Tank	Water volume		l	180	260	180	260	180	260	180	260	180	260	180	260	180	260	180	260				
	Maximum water temperature		°C	65																			
	Maximum water pressure		bar	10																			
	Corrosion protection				Anode																		
Operation range	Heating	Water side	Min.~Max.	°C	15 ~55.0																		
	Domestic hot water	Water side	Min.~Max.	°C	25~60							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			ERLQ-C	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307			1,345x900x320					
Weight	Unit		kg	54	56		113			114		
Compressor	Quantity			Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
	Type											
Operation range	Cooling	Min.~Max.	°CDB	10.0~43.0			10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB	-25 ~35			-20 ~35					
Refrigerant	Type			R-410A								
	GWP			2,087.5								
	Charge		kg	1.5	1.6		3.4					
	Charge		TCO2eq	3.1	3.3		7.1					
Sound power level	Heating	Nom.	dBA	61		62	64		66	64		66
	Cooling	Nom.	dBA	63			64		66	69	64	66
Sound pressure level	Heating	Nom.	dBA	48	49		49	51	52	51		52
	Cooling	Nom.	dBA	48	49		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	16		20	40		20			

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



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

# Daikin Altherma low temperature split integrated floor standing unit

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
- › Online 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 / 10.3		14.0 / 13.1		16.0 / 15.2		11.3 / 11.0		14.5 / 13.6		16.1 / 15.1					
Power input	Heating	Nom.			kW	2.55 / 3.17		3.26 / 4.04		3.92 / 4.75		2.63 / 3.24		3.42 / 4.21		3.82 / 4.69					
COP						4.39 / 3.25		4.29 / 3.24		4.08 / 3.20		4.30 / 3.39		4.24 / 3.22		4.20 / 3.22					
	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						
	Average climate water outlet 35°C	General	Seasonal space heating eff. class			A+															
			SCOP			2.99		3.23		3.29		3.08		3.34							
						117		126		129		120		131		130					
						A		A+		A		A+									
	General	Declared load profile				XL	L	XL	L	XL	L	XL	L	XL	L	L	XL				
	Average climate	ηwh (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										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	HeightxWidthxDepth			mm	1,732x600x728															
Weight	Unit				kg	126	117	128	118	128	118	126	117	128	118	118	128				
Tank	Water volume					l	260	180	260	180	260	180	260	180	260	180	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 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		014BV3		016BV3		011BW1		014BW17		016BW1			
Dimensions	Unit	HeightxWidthxDepth			mm	1,170x900x320															
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															
	Charge				TCO2Eq	5.6															
Sound power level	Heating	Nom.				dBA	64				66				64						
	Cooling	Nom.				dBA	64		66		69		64		66		66				
	Heating	Nom.				dBA	49		51		53		51				52				
	Cooling	Nom.				dBA	50		52		54		50		52		54				
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1~/50/230												W1/3N~/50/400			
Current	Recommended fuses				A	32												20			

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

(3) Contains fluorinated greenhouse gases

# Daikin Altherma

## low temperature split integrated floor standing unit



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

- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › 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
- › Online controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



011-IW0068 → 78



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

Indoor Unit				EHVX	04S18CB3V		08S18CB3V		08S26CB9W		11S18CB3V		11S26CB9W		16S18CB3V		16S26CB9W	
Casing	Colour	Material			White													
	Precoated sheet metal																	
Dimensions	Unit	HeightxWidthxDepth			mm													
Weight	Unit				1,732x600x728													
Tank	Water volume				l			117		119		129		119		128		120
Operation range	Maximum water temperature	°C			65													
	Maximum water pressure	bar			10													
	Corrosion protection				Anode													
	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				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	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1					
Dimensions	Unit	HeightxWidthxDepth			735x832x307				1,345x900x320									
Weight	Unit	kg			54	56			113			114						
Compressor	Quantity	Type			1				1									
	Hermetically sealed swing compressor				Hermetically sealed scroll compressor													
Operation range	Cooling	Min.~Max.		°CDB	10.0~43.0				10.0~46.0									
	Domestic hot water	Min.~Max.		°CDB	-25 ~35				-20 ~35									
Refrigerant	Type				R-410A													
	GWP				2,087.5													
	Charge	kg			1.5	1.6			3.4									
	Charge	TCO2Eq			3.1	3.3			7.1									
	GWP				2,087.5													
Sound power level	Heating	Nom.		dBA	61		62		64		66		64		66			
	Cooling	Nom.		dBA	63				64		66		64		66			
Sound pressure level	Heating	Nom.		dBA	48		49		51		52		51		52			
	Cooling	Nom.		dBA	48		49		50		52		50		52			
Power supply	Name/Phase/Frequency/Voltage				Hz/V				V3/1~/50/230					W1/3N~/50/400				
Current	Recommended fuses				A				16		20		40		20			

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



# Daikin Altherma

## low temperature split

## integrated floor standing unit

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
- › 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
- › Online 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				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)	17.8 (1) / 17.8(2)	17.8 (1) / 17.8(2)	17.8 (1) / 17.8(2)	15.1 (1) / 11.7(2)	15.1 (1) / 11.7(2)	16.1 (1) / 12.6(2)	16.1 (1) / 12.6(2)	16.8 (1) / 13.1(2)	16.8 (1) / 13.1(2)	
Cooling capacity	Nom.		kW			13.9 (1) / 10.0(2)	17.3 (1) / 12.5(2)	17.8 (1) / 13.1(2)	17.8 (1) / 13.1(2)	17.8 (1) / 13.1(2)	17.8 (1) / 13.1(2)	15.1 (1) / 11.7(2)	15.1 (1) / 11.7(2)	16.1 (1) / 12.6(2)	16.1 (1) / 12.6(2)	16.8 (1) / 13.1(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)	3.92 (1) / 4.75(2)	3.92 (1) / 4.75(2)	3.92 (1) / 4.75(2)	2.63 (1) / 3.24(2)	2.63 (1) / 3.24(2)	3.42 (1) / 4.21(2)	3.42 (1) / 4.21(2)	3.82 (1) / 4.69(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)	6.87 (1) / 5.95(2)	6.87 (1) / 5.95(2)	6.87 (1) / 5.95(2)	4.53 (1) / 4.31(2)	4.53 (1) / 4.31(2)	5.43 (1) / 5.08(2)	5.43 (1) / 5.08(2)	6.16 (1) / 5.73(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)	4.08 (1) / 3.20(2)	4.08 (1) / 3.20(2)	4.08 (1) / 3.20(2)	4.30 (1) / 3.39(2)	4.30 (1) / 3.39(2)	4.24 (1) / 3.22(2)	4.24 (1) / 3.22(2)	4.20 (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)	2.59 (1) / 2.20(2)	2.59 (1) / 2.20(2)	2.59 (1) / 2.20(2)	3.32 (1) / 2.72(2)	3.32 (1) / 2.72(2)	2.96 (1) / 2.47(2)	2.96 (1) / 2.47(2)	2.72 (1) / 2.29(2)	2.72 (1) / 2.29(2)	
 Space heating	Average climate water outlet 55°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	2.86	2.82	2.92	2.92	2.92	2.92	2.90	2.90	2.86 / 2.80	2.86 / 2.80	2.96	2.96	
				Seasonal space heating eff. class		112	110	114	114	114	114	113	113	111 / 109	111 / 109	115	115	
	Average climate water outlet 35°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	2.99	3.23	3.29	3.29	3.29	3.29	3.08	3.08	3.34	3.34	3.33	3.33	
				Seasonal space heating eff. class		117	126	129	129	129	129	120	120	131	131	130	130	
 Domestic hot water heating	General	Declared load profile				L	XL	L	XL	L	XL	L	XL	L	XL	L	XL	
	Average climate	ηwh (water heating efficiency)	%			90.5	95.3	90.5	95.3	90.5	95.3	84.3	87.3	84.3	87.3	84.3	87.3	
		Water heating energy efficiency class				A												
Indoor Unit				EHVX		11S18CB3V	11S26CB9W	16S26CB9W	16S18CB3V	16S26CB9W	16S18CB3V	11S18CB3V	11S26CB9W	16S26CB9W	16S18CB3V	16S18CB3V	16S26CB9W	
Casing	Colour					White												
	Material					Precoated sheet metal												
Dimensions	Unit	HeightxWidthxDepth	mm			1,732x600x728												
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	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	HeightxWidthxDepth	mm			1,170x900x320												
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												
	Charge	TCO2Eq				5.6												
Sound power level	Heating	Nom.	dBA			64						66				66		
	Cooling	Nom.	dBA			64						64				66		
	Heating	Nom.	dBA			49						51				52		
	Cooling	Nom.	dBA			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)

# Daikin Altherma

## low temperature split

## integrated bi-zone





Optimum efficiency offering full flexibility in heat emitters

- › Two different temperature zones can be automatically regulated by the same indoor unit
- › Offers flexibility to the end user to combine different heat emitters e.g. 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
- › Online controller (optional)
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)

up to



011-1W0068 → 78

Efficiency data				EHVZ + ERLQ-C	04S18CB3V + 004CV3	08S18CB3V + 006CV3	08S18CB3V + 008CV3	16S18CB3V + 011CV3	16S18CB3V + 014CV3	16S18CB3V + 016CV3	16S18CB3V + 011CW1	16S18CB3V + 014CW1	16S18CB3V + 016CW1	
Heating capacity	Nom.			kW	4.40(1) / 4.03(2)	6.00(1) / 5.67(2)	7.40(1) / 6.89(2)	11.2(1) / 11.0(2)	14.4(1) / 13.5(2)	15.9(1) / 15.1(2)	11.2(1) / 11.0(2)	14.4(1) / 13.5(2)	15.9(1) / 15.1(2)	
Power input	Heating	Nom.		kW	0.870(1) / 1.13(2)	1.27(1) / 1.59(2)	1.66(1) / 2.01(2)	2.43(1) / 3.10(2)	3.39(1) / 4.12(2)	3.77(1) / 4.67(2)	2.43(1) / 3.10(2)	3.39(1) / 4.12(2)	3.77(1) / 4.67(2)	
COP					5.04(1) / 3.58(2)	4.74(1) / 3.56(2)	4.45(1) / 3.42(2)	4.60(1) / 2.75(2) / 2.10(4)	4.24(1) / 2.61(2) / 3.28(3) / 2.05(4)	4.22(1) / 2.61(2) / 3.23(3) / 2.07(4)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.24(1) / 2.61(2) / 3.28(3) / 2.05(7)	4.22(1) / 2.61(2) / 3.23(3) / 2.07(4)	
	Average climate water outlet 55°C	General	SCOP		3.20	3.22	3.23	3.09	3.16	3.06	3.09	3.16	3.06	
			ηs (Seasonal space heating efficiency)	%	125	126		120	123	119	120	123	119	
	Average climate water outlet 35°C	General	SCOP		4.52	4.29	4.34	-						
			ηs (Seasonal space heating efficiency)	%	178	169	171	-						
Pump Additional Zone	Nominal ESP unit (*RLQ°C*)	Heating		kPa	52.3 / 55.4	40.6 / 43.3	28.3 / 32.7	26.2 (1) / 28.3 (2)	25.0		26.2 (1) / 28.3 (2)	25.0		
Pump Main Zone	Nominal ESP unit (*RLQ°C*)	Heating		kPa	48.6 / 51.9	39.5 / 42.3	26.4 / 31.2	18.2 (1) / 20.7 (2)	25.0		18.2 (1) / 20.7 (2)	25.0		
	General	Declared load profile			L									
	Average climate	ηwh (water heating efficiency)	%	95.0	86.4		87.4							
		Water heating energy efficiency class			A									
Indoor Unit				EHVZ	04S18CB3V	08S18CB3V	08S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	16S18CB3V	
Casing	Colour				White									
	Material				Precoated sheet metal									
Dimensions	Unit	HeightxWidthxDepth	mm	1,732x600x728										
Weight	Unit		kg	121	122			121						
Tank	Water volume		l	180										
	Maximum water temperature		°C	65										
	Maximum water pressure		bar	10										
	Corrosion protection			Anode										
Operation range	Heating	Water side	Min.~Max.	°C	15 ~55				15 ~55					
	Domestic hot water	Water side	Min.~Max.	°C	25~60				25~60 / 60					
Sound power level	Nom.		dBA	42				44						
Sound pressure level	Nom.		dBA	28				30						
Outdoor Unit				ERLQ-C	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1	
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307				1,345x900x320						
Weight	Unit		kg	54	56			113		114				
Compressor	Quantity				1				1					
Operation range	Type				Hermetically sealed swing compressor				Hermetically sealed scroll compressor					
	Cooling	Min.~Max.	°CDB	10.0~43.0				10.0~46.0						
	Domestic hot water	Min.~Max.	°CDB	-25 ~35				-20 ~35						
Refrigerant	Type				R-410A									
	GWP				2,087.5									
	Charge	kg			1.5	1.6		3.4						
	Charge	TCO2Eq			3.1	3.3		71						
Sound power level	Heating	Nom.	dBA	61		62		64		66		64		66
	Cooling	Nom.	dBA	63				64		66		64		69
Sound pressure level	Heating	Nom.	dBA	48		49		51		52		51		52
	Cooling	Nom.	dBA	48		49		50		52		50		54
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230									
Current	Recommended fuses			A	16		20		40		20			

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



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

# Daikin Altherma low temperature split integrated bi-zone

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



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 55°C		ηs (Seasonal space heating efficiency)	%	112	110	114	113	111	115	
				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	HeightxWidthxDepth	mm		1,732x600x728						
Weight	Unit			kg	121						
Tank	Water volume			l	180						
	Maximum water temperature			°C	65						
	Maximum water pressure			bar	10						
	Corrosion protection				Anode						
Operation range	Heating	Water side	Min.~Max.	°C	15 ~55						
	Domestic hot water	Water side	Min.~Max.	°C	25~60 / 60						
Sound power level	Nom.			dBA	44						
Sound pressure level	Nom.			dBA	30						
Outdoor Unit				ERHQ-B	011BV3	014BV3	016BV3	011BW1	014BW17	016BW1	
Dimensions	Unit	HeightxWidthxDepth	mm		1,170x900x320			1,345x900x320			
Weight	Unit			kg	102			108			
Compressor	Quantity					1					
	Type					Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0						
	Domestic hot water	Min.~Max.		°CDB	-20 ~35						
Refrigerant	Type					R-410A					
	GWP					2,087.5					
	Charge			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) Heating Ta DB -7°C (RH85%) - LWC 35°C (4) Heating Ta DB -7°C (RH85%) - LWC 45°C (5) Contains fluorinated greenhouse gases

# Daikin Altherma

## low temperature split



## integrated floor standing unit

## without back-up heater

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



Efficiency data				EHVH + ERLQ-C		04S18CBV	08S18CBV	08S26CBV	08S26CBV	08S18CBV	11S26CBV	16S26CBV	16S26CBV	11S26CBV	16S26CBV	16S26CBV		
						+ 004CV3	+ 006CV3	+ 006CV3	+ 008CV3	+ 008CV3	+ 011CV3	+ 014CV3	+ 016CV3	+ 011CW1	+ 014CW1	+ 016CW1		
Heating capacity	Nom.			kW		4.40(1) / 4.03(2)	6.00(1) / 5.67(2)		7.40(1) / 6.89(2)		11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)		
Power input	Heating	Nom.		kW		0.870(1) / 1.13(2)	1.27(1) / 1.59(2)		1.66(1) / 2.01(2)		2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	3.42(1) / 4.21(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)		
COP						5.04(1) / 3.58(2)	4.74(1) / 3.56(2)		4.45(1) / 3.42(2)		4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)		
 Space heating	Average climate water outlet 55°C	General	SCOP	%		3.20	3.22		3.20		3.09	3.16	3.06	3.09	3.16	3.06		
			ηs (Seasonal space heating efficiency)	%		125	126		125		120	123	119	120	123	119		
			Seasonal space heating eff. class			A++				A+								
	Average climate water outlet 35°C	General	SCOP	%		4.52	4.29		4.34		3.98	3.90	3.80	3.98	3.90	3.80		
			ηs (Seasonal space heating efficiency)	%		178	169		171		156	153	149	156	153	149		
			Seasonal space heating eff. class			A++				A+		A++		A+				
 Domestic hot water heating	General	Declared load profile				L		XL		L	XL							
	Average climate		ηwh (water heating efficiency)	%		95.0	86.4		90.0	86.4	97.7				97.7			
			Water heating energy efficiency class			A												
Indoor Unit				EHVH		04S18CBV	08S18CBV	08S26CBV	08S26CBV	08S18CBV	11S26CBV	16S26CBV	16S26CBV	11S26CBV	16S26CBV	16S26CBV		
Casing	Colour					White												
	Material					Precoated sheet metal												
Dimensions	Unit	HeightxWidthxDepth		mm		1,732x600x728												
Weight	Unit				kg	116	117	125		117	124	126		124	126			
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		10 ~55.0					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		004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1		
Dimensions	Unit	HeightxWidthxDepth		mm		735x832x307					1,345x900x320							
Weight	Unit				kg	54	56			113							114	
Compressor	Quantity					1												
	Type					Hermetically sealed swing compressor					Hermetically sealed scroll compressor							
Operation range	Cooling	Min.~Max.	°CDB			10.0~43.0					10.0~46.0							
	Domestic hot water	Min.~Max.	°CDB			-25 ~35					-20 ~35							
Refrigerant	Type					R-410A												
	GWP					2,087.5												
	Charge	kg				1.5	1.6			3.4								
	Charge GWP	TCO2Eq				3.1	3.3			7.1								
Sound power level	Heating	Nom.	dBA			61		62		64		66	64		66			
	Cooling	Nom.	dBA					63		64		66	69	64	66	69		
Sound pressure level	Heating	Nom.	dBA			48		49		51		52	51		52			
	Cooling	Nom.	dBA			48	49		50			52	54	50	52	54		
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1~/50/230											W1/3N~/50/400	
Current	Recommended fuses				A	16			20		40			20				

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

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





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

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
- › Online 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)	
	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+			
	General	Declared load profile			XL						
	Average climate	ηwh (water heating efficiency)		%	95.3				87.3		
	Water heating energy efficiency class		A								
Indoor Unit				EHVH	11S26CBV	16S26CBV	16S26CBV	11S26CBV	16S26CBV	16S26CBV	
Casing	Colour				White						
	Material				Precoated sheet metal						
Dimensions	Unit	HeightxWidthxDepth		mm	1,732x600x728						
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	HeightxWidthxDepth		mm	1,170x900x320				1,345x900x320		
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	
	Heating	Nom.		dBA	49	51	53	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				W1/3N~/50/400		
Current	Recommended fuses			A	32				20		

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

(3) Contains fluorinated greenhouse gases

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



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

- › Integrated indoor unit: 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
- › Online 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		04SU18CB6W + 004CV3	08SU18CB6W + 006CV3	08SU26CB6W + 006CV3	08SU26CB6W + 008CV3	08SU18CB6W + 008CV3	11SU26CB6W + 011CV3	16SU26CB6W + 014CV3	16SU26CB6W + 016CV3	11SU26CB6W + 011CW1	16SU26CB6W + 014CW1	16SU26CB6W + 016CW1	
Heating capacity	Nom.			kW		4.40(1) / 4.03(2)	6.00(1) / 5.67(2)		7.40(1) / 6.89(2)		11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	
Power input	Heating	Nom.		kW		0.870(1) / 1.13(2)	1.27(1) / 1.59(2)		1.66(1) / 2.01(2)		2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	3.42(1) / 4.21(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	
COP						5.04(1) / 3.58(2)	4.74(1) / 3.56(2)		4.45(1) / 3.42(2)		4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	
 Space heating	Average climate water outlet 55°C	General	SCOP	%		3.20	3.22		3.20		3.09	3.16	3.06	3.09	3.16	3.06	
			η <sub>sp</sub> (Seasonal space heating efficiency)	%		125	126		125		120	123	119	120	123	119	
			Seasonal space heating eff. class			A++					A+						
			SCOP	%		4.52	4.29		4.34		3.98	3.90	3.80	3.98	3.90	3.80	
 Domestic hot water heating	Average climate water outlet 35°C	General	η <sub>sp</sub> (Seasonal space heating efficiency)	%		178	169		171		156	153	149	156	153	149	
			Seasonal space heating eff. class			A++					A+		A++		A+		
			Declared load profile			L		XL		L	XL						
			η <sub>wh</sub> (water heating efficiency)	%		95.0	86.4		90.0	86.4	97.7						
				Water heating energy efficiency class		A											
Indoor Unit					EHVH		04SU18CB6W	08SU18CB6W	08SU26CB6W	08SU26CB6W	08SU18CB6W	11SU26CB6W	16SU26CB6W	16SU26CB6W	11SU26CB6W	16SU26CB6W	
Casing	Colour					White											
	Material					Precoated sheet metal											
Dimensions	Unit	HeightxWidthxDepth	mm	1,732x600x728													
Weight	Unit		kg	118	121	127	121	128	130	128	130	128	130	128	130	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							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		004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307							1,345x900x320						
Weight	Unit		kg	54	56					113			114				
Compressor	Quantity			1													
	Type			Hermetically sealed swing compressor							Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10.0~43.0							10.0~46.0						
	Domestic hot water	Min.~Max.	°CDB	-25 ~35							-20 ~35						
Refrigerant	Type			R-410A													
	GWP			2,087.5													
	Charge	kg		1.5	1.6					3.4			3.4				
	Charge	TCO <sub>2</sub> Eq		3.1	3.3					7.1			7.1				
	GWP			2,087.5													
Sound power level	Heating	Nom.	dBA	61			62			64			66	64		66	
	Cooling	Nom.	dBA	63						64	66	69	64	66	69		
Sound pressure level	Heating	Nom.	dBA	48			49			51			52	51		52	
	Cooling	Nom.	dBA	48	49		50			52	54	50	52	54			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230												
Current	Recommended fuses			A	16			20			40			20			

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



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

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

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



























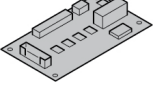
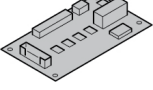
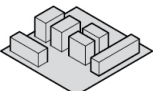
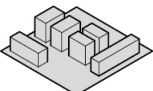
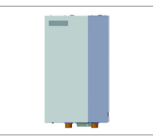
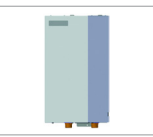


































- › Integrated indoor unit: pre-plumbed and pre-wired indoor unit for a simpler, hassle free and neater heating and hot water installation
- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Flexible configuration with respect to heat emitters
- › Online 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							
		Water heating energy efficiency class			A						
Indoor Unit				EHVH	11SU26CB6W	16SU26CB6W	16SU26CB6W	11SU26CB6W	16SU26CB6W	16SU26CB6W	
Casing	Colour			White							
	Material			Precoated sheet metal							
Dimensions	Unit	HeightxWidthxDepth		mm	1,732x600x728						
Weight	Unit				kg	128	130		128	130	
Tank	Water volume			l	260						
	Maximum water temperature			°C	65						
	Maximum water pressure			bar	10						
	Corrosion protection				Anode						
Operation range	Heating	Water side Min.~Max.		°C	15 ~55.0						
	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	HeightxWidthxDepth		mm	1,170x900x320				1,345x900x320		
Weight	Unit				kg	102				108	
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0						
	Domestic hot water	Min.~Max.		°CDB	-20 ~35						
Refrigerant	Type				R-410A						
	GWP				2,087.5						
	Charge				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

Type	Material name		Daikin Altherma LT split wall mounted /floor standing	
			4-8kW	11-16kW
Controls	LAN adapter	BRP069A62		
	LAN adapter + PV solar connection	BRP069A61		
	Remote user interface (DE, FR, NL, IT)	EKRUCBL1		
	Remote user interface (EN, ES, EL, PT)	EKRUCBL3		
	Remote user interface (EN, SV, NO, FI)	EKRUCBL2		
	Remote user interface (EN, TR, PL, RO)	EKRUCBL4		
	Remote user interface (DE, CS, SL, SK)	EKRUCBL5		
	Remote user interface (EN, HR, HU, BG)	EKRUCBL6		
	Remote user interface (EN, DE, RU, DA)	EKRUCBL7		
	Simplified user interface	EKRUCBSB		
	Room thermostat (wired)	EKRTWA		
Adapter	Room thermostat (wireless)	EKRTR1		
	Centralised controller kit	EKCC-W		
	Demand PCB	EKR1AHTA		
Back-up heater	Digital I/O PCB	EKR1HBAA		
	Back-up heater kit	EKLBUEHCB6W1		
	Booster heater for tank integrated design	EKB5HCA3V3		
Drain	Bottom plate heater	EKBPHTH16A		
	Drain kit	EKDK04		
	Drain pan for indoor wall munted	EKHBDPCA2		
Filter	Drain pan for outdoor (excl heater)	EKDP008CA		
	Drain pan heater	EKDPH008CA		
	Magnetic filter without additives	K.FERNOXTF1		
Installation	Magnetic filter with additive (500ml inhibitor fluid F1)	K.FERNOXTF1FL		
	Bi-zone kit	BZKA7V3		
	Snowcover	EK016SNCA		
Sensor	U-beams for outdoor	EKFT008CA		
	UK tank kit	EKVSU260A		
	Remote indoor sensor	KRCS01-1B		
Others	Remote sensor for outdoor	EKRSCA1		
	External sensor	EKRTETS		
Others	PC cable	EKPCCAB1		
	Low sound cover for ERLQ-CV3	EKLN-A		





**R-410A**



# Daikin Altherma low temperature split integrated ECH<sub>2</sub>O

The Daikin Altherma low temperature split integrated ECH<sub>2</sub>O is renowned for its ability to maximise renewable energy sources to provide the ultimate comfort in heating, domestic hot water and cooling

## Intelligent storage management

- › The unit is 'Smart Grid' ready to take advantage of low energy tariffs and efficiently store thermal energy for space heating and domestic hot water
- › Continuous heating during defrost mode and use of stored heat for space heating (500l tank only)
- › Electronic management of both heat pump and ECH<sub>2</sub>O thermal store maximises energy efficiency, as well as convenient heating and domestic hot water
- › Achieves the highest standards for water sanitation
- › Uses more renewable energy with solar connection

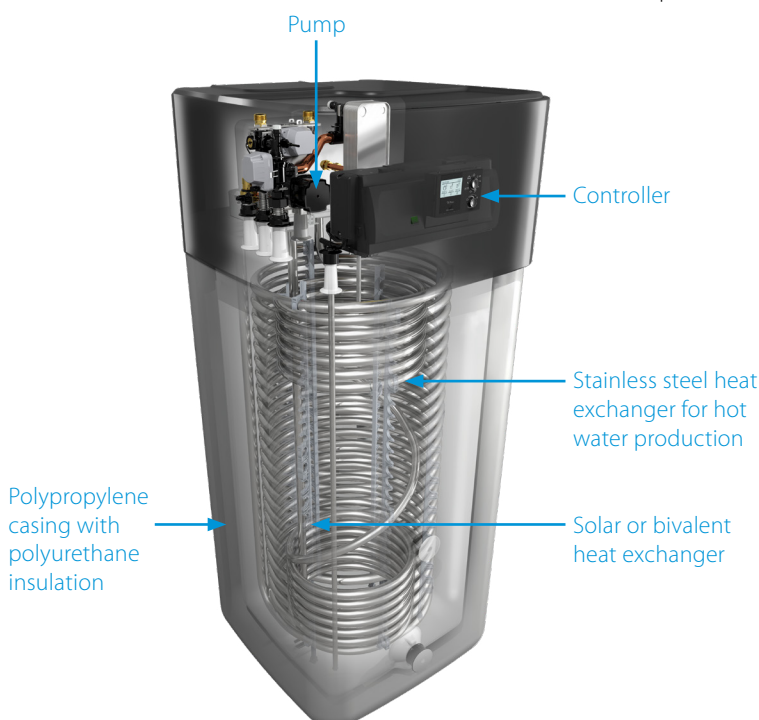
## Innovative and high-quality tank

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

## Combinable with other heat sources

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

**ECH<sub>2</sub>O**





## ECH<sub>2</sub>O thermal store range: additional hot water comfort

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

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

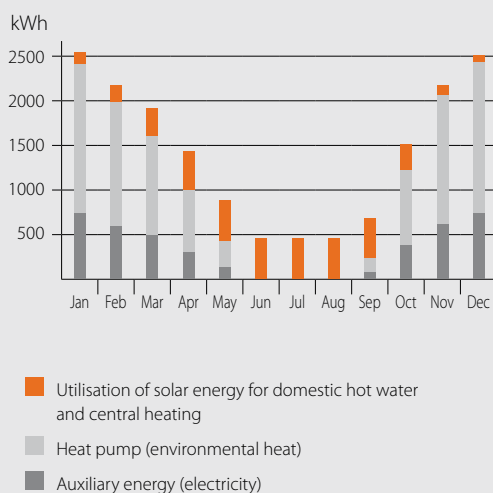
### Pressureless (drain-back) solar system (EHSB-B, EHSX-B)

- › 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 (EHSXB-B, EHSXB-B)

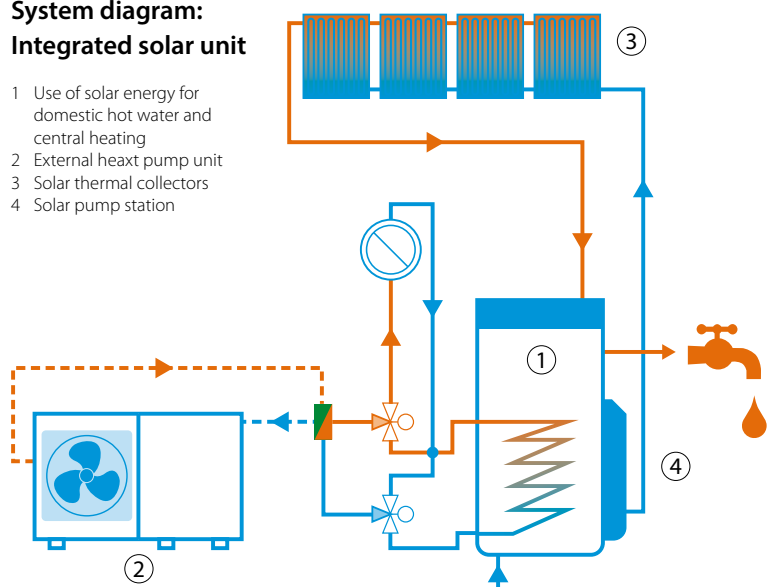
- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed

### Monthly energy consumption of an average detached house



### 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 low temperature split integrated ECH<sub>2</sub>O

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



Efficiency data				EHSB + ERLQ-C		04P30B + 004CV3	08P30B + 006CV3	08P50B + 006CV3	08P30B + 008CV3	08P50B + 008CV3	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1	
Heating capacity	Nom.		kW		4.26(1) / 3.47(2) / 4.53(3) / 3.98(4)	5.14(1) / 4.60(2) / 6.06(3) / 5.78(4)		5.53(1) / 5.51(2) / 7.78(3) / 7.27(4)		5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)		8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04(1) / 10.05(2) / 15.34(3) / 14.86(4)	
Power input	Heating	Nom.		kW		0.87(1) / 1.04(2) / 1.49(3) / 0.85(4)	1.30(1) / 1.58(2) / 1.88(3) / 1.26(4)		1.69(1) / 2.04(2) / 1.98(3) / 1.56(4)		2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)		3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)		3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)		
COP						5.23(1) / 3.84(2) / 2.85(3) / 4.07(4)	4.65(1) / 3.66(2) / 2.73(3) / 3.64(4)		4.60(1) / 3.57(2) / 2.78(3) / 3.54(4)		4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)		4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)
<div>Space heating</div>	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency) Seasonal space heating eff. class		%	130	125		127		125	126	125		126	125	
<div>Domestic hot water heating</div>	General	Declared load profile				L		XL		L	XL						
	Average climate	ηwh (water heating efficiency) Water heating energy efficiency class				%	103	98	102	90	96	83					
						A											
Indoor Unit					EHSB	04P30B	08P30B	08P50B	08P30B	08P50B	16P50B						
Casing	Colour					Traffic white (RAL9016) / Dark grey (RAL7011)											
	Material					Impact resistant polypropylene											
Dimensions	Unit	HeightxWidthxDepth			mm	1,945 / 1,890x615x595		1,945 / 1,890x790 x790	1,945 / 1,890x615 x595	1,945 / 1,890x790x790							
Weight	Unit					kg	84	111	84	111	113						
Tank	Water volume				l	294		477	294	477							
	Maximum water temperature				°C	85											
Operation range	Heating	Ambient	Min.~Max.		°C	-25~25					-25~35						
		Water side	Min.~Max.		°C	15~55											
	Domestic	Ambient	Min.~Max.		°CDB	-25~35											
	hot water	Water side	Min.~Max.		°C	25~55											
Sound power level	Nom.				dBA	40											
Sound pressure level	Nom.				dBA	28											
Outdoor Unit					ERLQ-C	004CV3	006CV3		008CV3		011CV3	014CV3	016CV3	011CW1	014CW1	016CW1	
Dimensions	Unit	HeightxWidthxDepth			mm	735x832x307						1,345x900x320					
Weight	Unit	kg				54	56					113		114			
Compressor	Quantity					1											
	Type					Hermetically sealed swing compressor					Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.		°CDB	10.0~43.0						10.0~46.0						
	Domestic hot water	Min.~Max.		°CDB	-25~35						-20~35						
Refrigerant	Type					R-410A											
	GWP					2,087.5											
	Charge	kg				1.5	1.6					3.4					
	Charge	TCO2eq				3.1	3.3					7.1					
	Control					Expansion valve (electronic type)											
Sound power level	Heating	Nom.		dBA	61			62			64		66	64		66	
	Cooling	Nom.		dBA	63			63			64	66	69	64	66	69	
Sound pressure level	Heating	Nom.		dBA	48			49			51		52	51		52	
	Cooling	Nom.		dBA	48	49		50				52	54	50	52	54	
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1~50/230											
Current	Recommended fuses				A	16			20			40			20		

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

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



# Daikin Altherma

## low temperature

## split integrated ECH<sub>2</sub>O

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

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



Efficiency data				EHSB + ERLQ-C		04P30B + 004CV3	08P30B + 006CV3	08P50B + 006CV3	08P30B + 008CV3	08P50B + 008CV3	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1							
Heating capacity	Nom.		kW		4.26(1) / 3.47(2) / 4.53(3) / 3.98(4)		5.14(1) / 4.60(2) / 6.06(3) / 5.78(4)		5.53(1) / 5.51(2) / 7.78(3) / 7.27(4)		5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)		14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)		15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)		5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)		8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)		8.04 / 10.05 / 15.34 / 14.86		
Power input	Heating	Nom.		kW		0.87(1) / 1.04(2) / 1.49(3) / 0.85(4)		1.30(1) / 1.58(2) / 1.88(3) / 1.26(4)		1.69(1) / 2.04(2) / 1.98(3) / 1.56(4)		2.57(1) / 2.43(3) / 2.35(4)		3.42(1) / 3.17(3) / 2.93(4)		4.07(2) / 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						5.23(1) / 3.84(2) / 2.85(3) / 4.07(4)		4.65(1) / 3.66(2) / 2.73(3) / 3.64(4)		4.60(1) / 3.57(2) / 2.78(3) / 3.54(4)		4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)		4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)		4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)		4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)		4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)		4.10 / 3.22 / 2.44 / 3.15	
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency). Seasonal space heating eff. class		%		130		125		127		125		126		125		126		125		
				A++																			
Domestic hot water heating	General	Declared load profile				L		XL		L		XL											
Average climate				ηwh (water heating efficiency)		%		103		98		108		90		99		84					
				Water heating energy efficiency class		A																	
Indoor Unit					EHSB		04P30B	08P30B	08P50B	08P30B	08P50B	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B						
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)																		
	Material				Impact resistant polypropylene																		
Dimensions	Unit	HeightxWidthxDepth	mm		1,890x615x595												1,890x790x790		1,890x615x595		1,890x790x790		
Weight	Unit	kg			89		116		89		116		118										
Tank	Water volume	l			294		477		294		477												
	Maximum water temperature	°C			85																		
Operation range	Heating	Ambient	Min.~Max.		°C		-25~-25																
		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		004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1						
Dimensions	Unit	HeightxWidthxDepth		mm		735x832x307												1,345x900x320					
Weight	Unit	kg			54		56					113			114								
Compressor	Quantity				1																		
	Type				Hermetically sealed swing compressor						Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.		°CDB		10.0~43.0						10.0~46.0											
	Domestic hot water	Min.~Max.		°CDB		-25~35						-20~35											
Refrigerant	Type				R-410A																		
	GWP				2,087.5																		
	Charge	kg			1.5		1.6					3.4											
	Charge	TCO2eq			3.1		3.3					7.1											
	Control				Expansion valve (electronic type)																		
Sound power level	Heating	Nom.		dBA		61			62			64		66		64		66					
	Cooling	Nom.		dBA		63			49			64		66		64		66					
Sound pressure level	Heating	Nom.		dBA		48			49			51		52		51		52					
	Cooling	Nom.		dBA		48		49			50			52		54		50		52		54	
Power supply	Name/Phase/Frequency/Voltage				Hz/V		V3/1~/50/230												W1/3N~/50/400				
Current	Recommended fuses				A		16			20			40			20							

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

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

# Daikin Altherma low temperature split integrated ECH<sub>2</sub>O

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

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



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

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

Outdoor Unit			ERLQ-C	004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1	
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307					1,345x900x320						
Weight	Unit		kg	54	56				113			114			
Compressor	Quantity			1					1						
Operation range	Type			Hermetically sealed swing compressor					Hermetically sealed scroll compressor						
	Cooling	Min.~Max.	°CDB	10.0~43.0					10.0~46.0						
Refrigerant	Domestic hot water	Min.~Max.	°CDB	-25 ~35					-20 ~35						
	Type			R-410A											
	GWP			2,087.5											
	Charge		kg	1.5	1.6				3.4						
Control	Charge		TCO2eq	3.1	3.3				7.1						
	Expansion valve (electronic type)														
	Heating	Nom.	dBA	61		62		64		66	64		66		
	Cooling	Nom.	dBA	63				64		66	69		64	66	69
Sound pressure level	Heating	Nom.	dBA	48		49		49		51	52		51	52	52
	Cooling	Nom.	dBA	48	49		50			52	54		50	52	54
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230											
Current	Recommended fuses		A	16		20		40		W1/3N~/50/400					
										20					

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

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

# Daikin Altherma low temperature split integrated ECH<sub>2</sub>O

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





011-1W0096 → 104

## Options

	Type	Material name
Controls	Room thermostat RoCon U1	EHS157034
	Gateway RoCon G1 for apps	EHS157056
	Connection kit for MK1	VMK1
Back-up heater	Back-up heater 1kW	EKBUC1C
	Back-up heater 3kW	EKBUC3C
	Back-up heater 9kW	EKBUC9C
Installation	Heat insulation for hydraulic separator (HWC)	WHWC
	Separator for dirt	SAS1
Sensor	Separator - hydraulic	HWC
	External sensor	EKRTETS
	Outdoor sensor for Rocon Controller	RoCon OT1
Others	Mixer module RoCon M1	EHS157068
	Low sound cover for ERLQ-CV3	EKLN-A



Efficiency data					EHSXB + ERLQ-C		04P30B + 004CV3	08P30B + 006CV3	08P50B + 006CV3	08P30B + 008CV3	08P50B + 008CV3	16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.			kW		4.26(1) / 3.47(2) / 4.53(3) / 3.98(4)	5.14(1) / 4.60(2) / 5.78(4)	6.06(3)	5.53(1) / 5.51(2) / 7.78(3) / 7.27(4)			5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04 / 10.05 / 15.34 / 14.86
Cooling capacity	Nom.			kW		4.4(1) / 4.0(2)	5.2(1) / 4.6(2)					15.1(1) / 11.7(2)	16.1(1) / 12.6(2)	16.8(1) / 13.1(2)	15.1(1) / 11.7(2)	16.1(1) / 12.6(2)	16.8 / 13.1
Power input	Heating	Nom.		kW		0.87(1) / 1.04(2) / 1.49(3) / 0.85(4)	1.30(1) / 1.58(2) / 1.26(4)	1.88(3)	1.69(1) / 2.04(2) / 1.98(3) / 1.56(4)			2.57 / 3.13 / 2.43 / 2.35	3.42(1) / 4.07(2) / 2.93(4)	3.37(3)	2.57(1) / 3.42(1) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3)	3.42 / 4.07 / 3.17 / 2.93
	Cooling	Nom.		kW		1.05(1) / 1.41(2)	1.43(1) / 1.85(2)					4.55(1) / 4.30(2)	5.44(1) / 5.10(2)	6.18(1) / 5.72(2)	4.55(1) / 4.30(2)	5.44(1) / 5.10(2)	6.18 / 5.72
COP						5.23(1) / 3.84(2) / 2.85(3) / 4.07(4)	4.65(1) / 3.66(2) / 3.64(4)	2.73(3)	4.60(1) / 3.57(2) / 2.78(3) / 3.54(4)			3.32(2) / 2.45(3) / 3.29(4)	3.34(2) / 2.44(3) / 3.22(4)	3.22(2) / 2.45(3) / 3.15(4)	3.32(2) / 2.58(3) / 3.29(4)	3.34(2) / 2.58(3) / 3.22(4)	4.10 / 3.22 / 2.44 / 3.15
EER						4.21(1) / 2.85(2)	3.65(1) / 2.51(2)					3.32(1) / 2.72(2)	2.96(1) / 2.47(2)	2.72(1) / 2.29(2)	3.32(1) / 2.72(2)	2.96(1) / 2.47(2)	2.72 / 2.29
Space heating		Average climate water outlet 55°C	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	132	126		128			130	127	128	130	127	
				Seasonal space heating eff. class		A++											
Domestic hot water heating		General	Declared load profile			L		XL	L	XL							
		Average climate	η <sub>wh</sub> (water heating efficiency)			%	103	98	108	90	99	84					
				Water heating energy efficiency class		A											

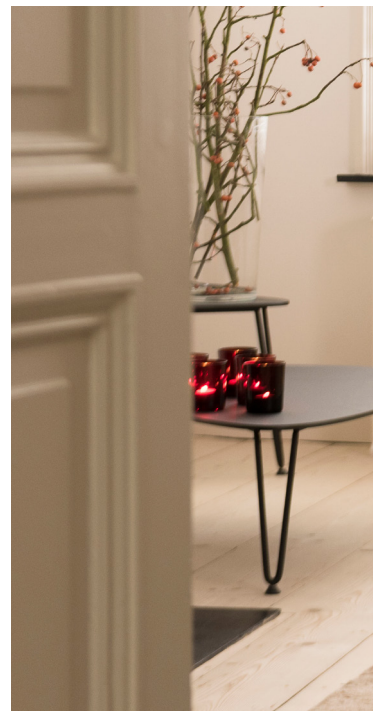
Indoor Unit				EHSXB	04P30B	08P30B	08P50B	08P30B	08P50B	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B	
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)												
	Material			Impact resistant polypropylene												
Dimensions	Unit	HeightxWidthxDepth		mm	1,890x615x595		1,890x790x790	1,890x615x595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

Outdoor Unit				ERLQ-C	004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1		
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307						1,345x900x320							
Weight	Unit		kg	54	56				113				114				
Compressor	Quantity			1													
	Type			Hermetically sealed swing compressor						Hermetically sealed scroll compressor							
Operation range	Cooling	Min.~Max.	°CDB	10.0~43.0						10.0~46.0							
	Domestic hot water	Min.~Max.	°CDB	-25 ~35						-20 ~35							
Refrigerant	Type			R-410A													
	GWP			2,087.5													
	Charge		kg	1.5	1.6				3.4								
	Charge		TCCO2eq	3.1	3.3				7.1								
	Control			Expansion valve (electronic type)													
Sound power level	Heating	Nom.	dBA	61				62		64		66		64		66	
	Cooling	Nom.	dBA	63						64		66		69		69	
Sound pressure level	Heating	Nom.	dBA	48				49		51		52		51		52	
	Cooling	Nom.	dBA	48	49			50			52		54		50	52	54
Power supply	Name/Phase/Frequency/Voltage			Hz/V			V3/1~/50/230						W1/3N~/50/400				
Current	Recommended fuses			A			16			20			40			20	

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

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

**R-410A**

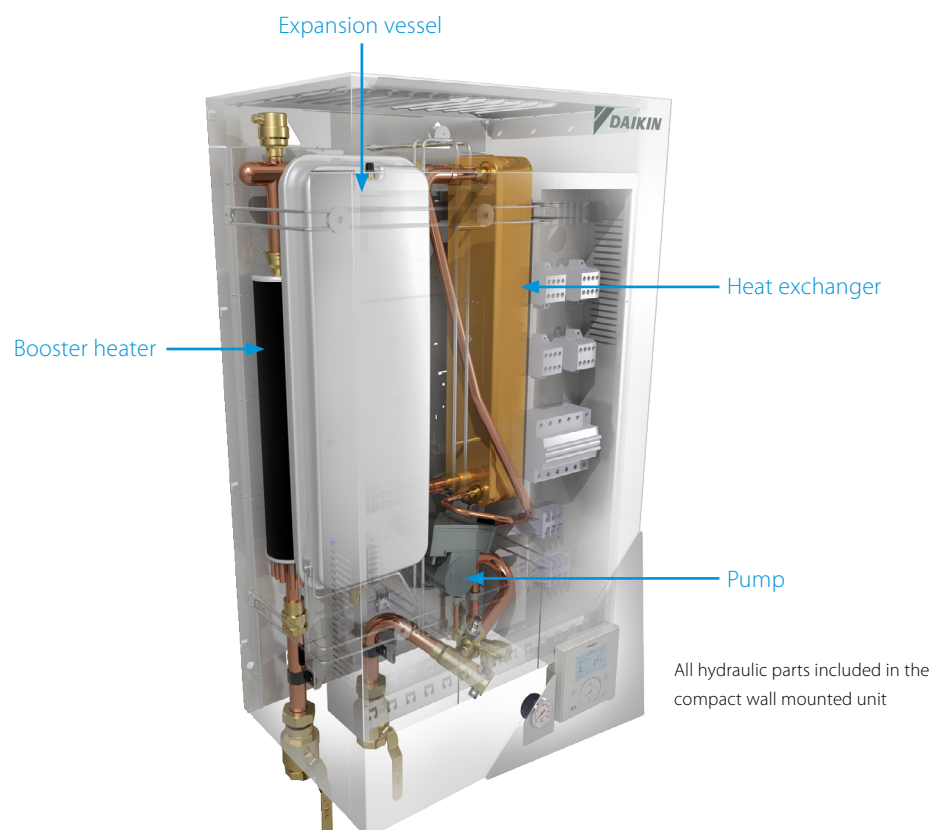


## Daikin Altherma low temperature split wall mounted unit

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

### High flexibility for installation and domestic hot water connection

- › Inclusion of all hydraulic components means no third-party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › The unit's sleek design blends in with other household appliances
- › Combine with a stainless steel, enameled or **ECH<sub>2</sub>O** 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).

### ECH<sub>2</sub>O thermal store range: additional hot water comfort

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

- › Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- › 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 ECH<sub>2</sub>O thermal store

# Daikin Altherma

## low temperature split


## wall mounted unit

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



011-W0068 → 78

Efficiency data				EBBH + ERLQ-C	04CB3V + 004CV3	08CB3V/9W + 006CV3	08CB9W/3V + 008CV3	11CB3V/9W + 011CV3	16CB3V/9W + 014CV3	16CB3V/9W + 016CV3	11CB3V/9W + 011CW1	16CB3V/9W + 014CW1	16CB3V/9W + 016CW1								
Heating capacity	Nom.			kW	4.40 (1) / 4.03(2)	6.00 (1) / 5.67(2)	7.40 (1) / 6.89(2)	11.2 (1) / 11.0(2)	14.5 (1) / 13.6(2)	16.0 (1) / 15.2(2)	11.2 (1) / 11.0(2)	14.5 (1) / 13.6(2)	16.0 (1) / 15.2(2)								
Power input	Heating	Nom.		kW	0.870 (1) / 1.13(2)	1.27 (1) / 1.59(2)	1.66 (1) / 2.01(2)	2.43 (1) / 3.10(2)	3.37 (1) / 4.10(2)	3.76 (1) / 4.66(2)	3.42 (1) / 4.21(2)	3.37 (1) / 4.10(2)	3.76 (1) / 4.66(2)								
COP					5.04 (1) / 3.58(2)	4.74 (1) / 3.56(2)	4.45 (1) / 3.42(2)	4.60 (1) / 2.75(2) / 3.55 (3) / 2.10(4)	4.30 (1) / 2.65(2) / 3.32 (3) / 2.08(4)	4.25 (1) / 2.64(2) / 3.26 (3) / 2.09(4)	4.60 (1) / 2.75(2) / 3.55 (3) / 2.10(4)	4.30 (1) / 2.65(2) / 3.32 (3) / 2.08(4)	4.25 (1) / 2.64(2) / 3.26 (3) / 2.09(4)								
Space heating		Average climate water outlet 55°C	General	SCOP	%	3.20	3.22	3.20	3.09	3.16	3.06	3.09	3.16	3.06							
				ηs (Seasonal space heating efficiency)	%	125	126	125	120	123	119	120	123	119							
		Average climate water outlet 35°C	General	SCOP	%	4.52	4.29	4.34	3.98	3.90	3.80	3.98	3.90	3.80							
				ηs (Seasonal space heating efficiency)	%	178	169	171	156	153	149	156	153	149							
				Seasonal space heating eff. class	A++					A+		A++		A+							
				Seasonal space heating eff. class	A++					A+		A++		A+							
Indoor Unit				EBBH	04CB3V	08CB3V/9W	08CB9W/3V	11CB3V/9W	16CB3V/9W	16CB3V/9W	11CB3V/9W	16CB3V/9W	16CB3V/9W								
Casing	Colour	White																			
	Material	Precoated sheet metal																			
Dimensions	Unit	HeightxWidthxDepth	mm	890x480x344																	
Weight	Unit		kg	41.0	43.0	45.0	43.0	44.0	45.0	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	40.0			41.0	44.0		41.0	44.0										
Sound pressure level	Nom.		dBA	26.0			27.0	30.0		27.0	30.0										
Outdoor Unit				ERLQ-C	004CV3	006CV3	006CV3	008CV3	008CV3	011CV3	011CV3	014CV3	014CV3	016CV3	016CV3	011CW1	011CW1	014CW1	014CW1	016CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307					1,345x900x320												
Weight	Unit		kg	54	56			113				114									
Compressor	Quantity			1																	
	Type			Hermetically sealed swing compressor					Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.	°CDB	10.0~43.0					10.0~46.0												
	Domestic hot water	Min.~Max.	°CDB	-25 ~35					-20 ~35												
Refrigerant	Type			R-410A																	
	GWP			2,087.5																	
	Charge	kg		1.5	1.6			3.4													
	Charge	TCO2Eq		3.1	3.3			7.1													
	GWP			2,087.5																	
Sound power level	Heating	Nom.	dBA	61		62		64		66		64		66		66					
	Cooling	Nom.	dBA	63				64		66		69		64		66		69			
Sound pressure level	Heating	Nom.	dBA	48		49		51		52		51		52		52					
	Cooling	Nom.	dBA	48	49		50		52		54		50		52		54				
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230										W1/3N~/50/400						
Current	Recommended fuses			A	16		20		40		20		20								

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

# Daikin Altherma low temperature split wall mounted unit

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



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)	16.0 (1) / 15.2(2)	2.63 (1) / 3.24(2)	3.42 (1) / 4.21(2)	3.82 (1) / 4.69(2)	4.20 (1) / 3.22(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)
Power input	Heating	Nom.		kW		2.55 (1) / 3.17(2)	3.26 (1) / 4.04(2)	3.92 (1) / 4.75(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)	4.20 (1) / 3.22(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)
COP						4.39 (1) / 3.25(2)	4.29 (1) / 3.24(2)	4.08 (1) / 3.20(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)	4.20 (1) / 3.22(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)
Space heating	Average climate water outlet 55°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	2.86	2.82	2.92	2.92	2.90	2.86	2.96					
				Seasonal space heating eff. class													
Average climate water outlet 35°C	Average climate water outlet 35°C	General	SCOP	ηs (Seasonal space heating efficiency)	%	2.99	3.23	3.29	3.29	3.08	3.34	3.33					
				Seasonal space heating eff. class													
Indoor Unit				EHBH		11CB3V	11CB9W	16CB3V	16CB9W	16CB3V	16CB9W	11CB3V	11CB9W	16CB3V	16CB9W	16CB3V	16CB9W
Casing	Colour																
	Material																
Dimensions	Unit	HeightxWidthxDepth	mm														
Weight	Unit		kg														
Operation range	Heating	Water side Min.~Max.	°C														
	Domestic hot water	Water side Min.~Max.	°C														
Sound power level	Nom.		dBA														
Sound pressure level	Nom.		dBA														
Outdoor Unit				ERHQ-B		011BV3	014BV3	016BV3	011BW1	014BW17	016BW1						
Dimensions	Unit	HeightxWidthxDepth	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	TCO2Eq															
	GWP																
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) Contains fluorinated greenhouse gases

# Daikin Altherma low temperature split wall mounted unit

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




011-1W0068 → 78



up to



Efficiency data				EHBX + ERLQ-C	04CB3V + 004CV3	08CB3V / 08CB9W + 006CV3	08CB3V / 08CB9W + 008CV3	11CB3V / 11CB9W + 011CV3	16CB3V / 16CB9W + 014CV3	16CB3V / 16CB9W + 016CV3	11CB3V / 11CB9W + 011CW1	16CB3V / 16CB9W + 014CW1	16CB3V / 16CB9W + 016CW1
Heating capacity	Nom.			kW	4.40(1) / 4.03(2)	6.00(1) / 5.67(2)	7.40(1) / 6.89(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)	11.2(1) / 11.0(2)	14.5(1) / 13.6(2)	16.0(1) / 15.2(2)
Cooling capacity	Nom.			kW	4.08(1) / 4.17(2)	5.88(1) / 4.84(2)	6.20(1) / 5.36(2)	12.1(1) / 11.7(2)	12.7(1) / 12.6(2)	13.8(1) / 13.1(2)	12.1(1) / 11.7(2)	12.7(1) / 12.6(2)	13.8(1) / 13.1(2)
Power input	Heating	Nom.		kW	0.870(1) / 1.13(2)	1.27(1) / 1.59(2)	1.66(1) / 2.01(2)	2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)	2.43(1) / 3.10(2)	3.37(1) / 4.10(2)	3.76(1) / 4.66(2)
	Cooling	Nom.		kW	0.900(1) / 1.80(2)	1.51(1) / 2.07(2)	1.64(1) / 2.34(2)	3.05(1) / 4.31(2)	3.21(1) / 5.08(2)	3.74(1) / 5.73(2)	3.05(1) / 4.31(2)	3.21(1) / 5.08(2)	3.74(1) / 5.73(2)
COP					5.04(1) / 3.58(2)	4.74(1) / 3.56(2)	4.45(1) / 3.42(2)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)	4.60(1) / 2.75(2) / 3.55(3) / 2.10(4)	4.30(1) / 2.65(2) / 3.32(3) / 2.08(4)	4.25(1) / 2.64(2) / 3.26(3) / 2.09(4)
EER					4.55(1) / 2.32(2)	3.89(1) / 2.34(2)	3.79(1) / 2.29(2)	3.98(1) / 2.72(2)	3.96(1) / 2.47(2)	3.69(1) / 2.29(2)	3.98(1) / 2.72(2)	3.96(1) / 2.47(2)	3.69(1) / 2.29(2)
 Space heating	Average climate water outlet 55°C	General	SCOP		3.20	3.22	3.20	3.09	3.16	3.06	3.09	3.16	3.06
			η <sub>s</sub> (Seasonal space heating efficiency)	%	125	126	125	120	123	119	120	123	119
			Seasonal space heating eff. class	A++				A+					
	Average climate water outlet 35°C	General	SCOP		4.52	4.29	4.34	3.98	3.90	3.80	3.98	3.90	3.80
			η <sub>s</sub> (Seasonal space heating efficiency)	%	178	169	171	156	153	149	156	153	149
			Seasonal space heating eff. class	A++				A+		A++		A+	

Indoor Unit				EHBX	04CB3V	08CB3V/9W		08CB3V/9W		11CB3V/9W		16CB3V/9W		16CB3V/9W		11CB3V/9W		16CB3V/9W		16CB3V/9W				
Casing	Colour	Material			mm	White																		
	Precoated sheet metal																							
Dimensions	Unit	HeightxWidthxDepth			kg	890x480x344																		
Weight	Unit					42.0	44.0	45.0	44.0	45.0	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	25~80																		
Sound power level	Nom.				dBA	40.0				41.0		44.0		44.0		41.0		41.0		41.0				
Sound pressure level	Nom.				dBA	26.0				27.0		30.0		30.0		27.0		27.0		27.0				
Outdoor Unit				ERLQ-C	004CV3	006CV3		008CV3		011CV3		014CV3		016CV3		011CW1		014CW1		016CW1				
Dimensions	Unit	HeightxWidthxDepth			mm	735x832x307						1,345x900x320												
Weight	Unit				kg	54	56				113				114									
Compressor	Quantity					Hermetically sealed swing compressor						1												
	Type											Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.		°CDB	10.0~43.0						10.0~46.0													
	Domestic hot water	Min.~Max.		°CDB	-25 ~35						-20 ~35													
Refrigerant	Type					R-410A																		
	GWP					2,087.5																		
	Charge	kg				1.5	1.6				3.4													
	Charge	TCO2Eq				3.1	3.3				7.1													
	GWP					2,087.5																		
Sound power level	Heating	Nom.		dBA	61				62		64		66		64				66					
	Cooling	Nom.		dBA	63						64		66		69		64		66					
Sound pressure level	Heating	Nom.		dBA	48				49		51				52		51				52			
	Cooling	Nom.		dBA	48	49		50				52		54		50		52		54				
Power supply	Name/Phase/Frequency/Voltage				Hz/V	V3/1~/50/230																	W1/3N~/50/400	
Current	Recommended fuses				A	16				20		40				20								

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

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




# Daikin Altherma lowtemperature split wall mounted unit

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



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	HeightxWidthxDepth		mm	890x480x344												
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	HeightxWidthxDepth		mm	1,170x900x320						1,345x900x320						
Weight	Unit			kg	102						108						
Compressor	Quantity				1												
	Type				Hermetically sealed scroll compressor												
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0												
	Domestic hot water	Min.~Max.		°CDB	-20 ~35												
Refrigerant	Type				R-410A												
	GWP				2,087.5												
	Charge			kg	2.7						3.0						
	Charge			TCO2Eq	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 low temperature split wall mounted unit without back-up heater

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

Indoor Unit				EHBH	04CBV	08CBV	08CBV	11CBV	16CBV	16CBV	11CBV	16CBV	16CBV
Casing	Colour				White								
	Material				Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm	890x480x344									
Weight	Unit		kg	39.0	41.0				42.0		41.0	42.0	
Operation range	Heating	Water side	Min.~Max.	°C	10 ~55.0				10 ~55.0				
	Domestic hot water	Water side	Min.~Max.	°C	25~80								
Sound power level	Nom.				40.0			41.0	44.0		41.0	44.0	
Sound pressure level	Nom.				26.0			27.0	30.0		27.0	30.0	

Outdoor Unit				ERLQ-C/ERLQ	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1					
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307				1,345x900x320										
Weight	Unit		kg	54	56			113			114							
Compressor	Quantity				1				Hermetically sealed scroll compressor									
	Type				Hermetically sealed swing compressor													
Operation range	Cooling	Min.~Max.	°CDB	10.0~43.0				10.0~46.0										
	Domestic hot water	Min.~Max.	°CDB	-25 ~35				-20 ~35										
Refrigerant	Type				R-410A													
	GWP				2,087.5													
	Charge				kg	1.5	1.6		3.4									
	Charge				TCO2Eq	3.1	3.3		7.1									
	Control				Expansion valve (electronic type)													
Sound power level	Heating	Nom.	dBA	61		62		64		66		64		66				
	Cooling	Nom.	dBA	63				64		66		69		64		66		69
Sound pressure level	Heating	Nom.	dBA	48		49		51		52		51		52				
	Cooling	Nom.	dBA	48	49		50		52		54		50		52		54	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230						W1/3N~/50/400							
Current	Recommended fuses			A	16		20		40		20							

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

# Daikin Altherma


## low temperature split

## without back-up heater



























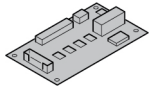
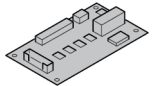
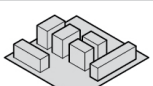
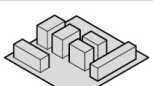




































Wall mounted **heating only** air to water heat pump without back-up heater

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



Efficiency data				EHBH + 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	A+		A	A+	
Indoor Unit				EHBH	11CBV	16CBV	16CBV	11CBV	16CBV	16CBV
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm		890x480x344					
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	HeightxWidthxDepth	mm		1,170x900x320			1,345x900x320		
Weight	Unit		kg		102			108		
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		-20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge	kg			2.7			3.0	2.95	3.0
	Charge	TCO2Eq			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		

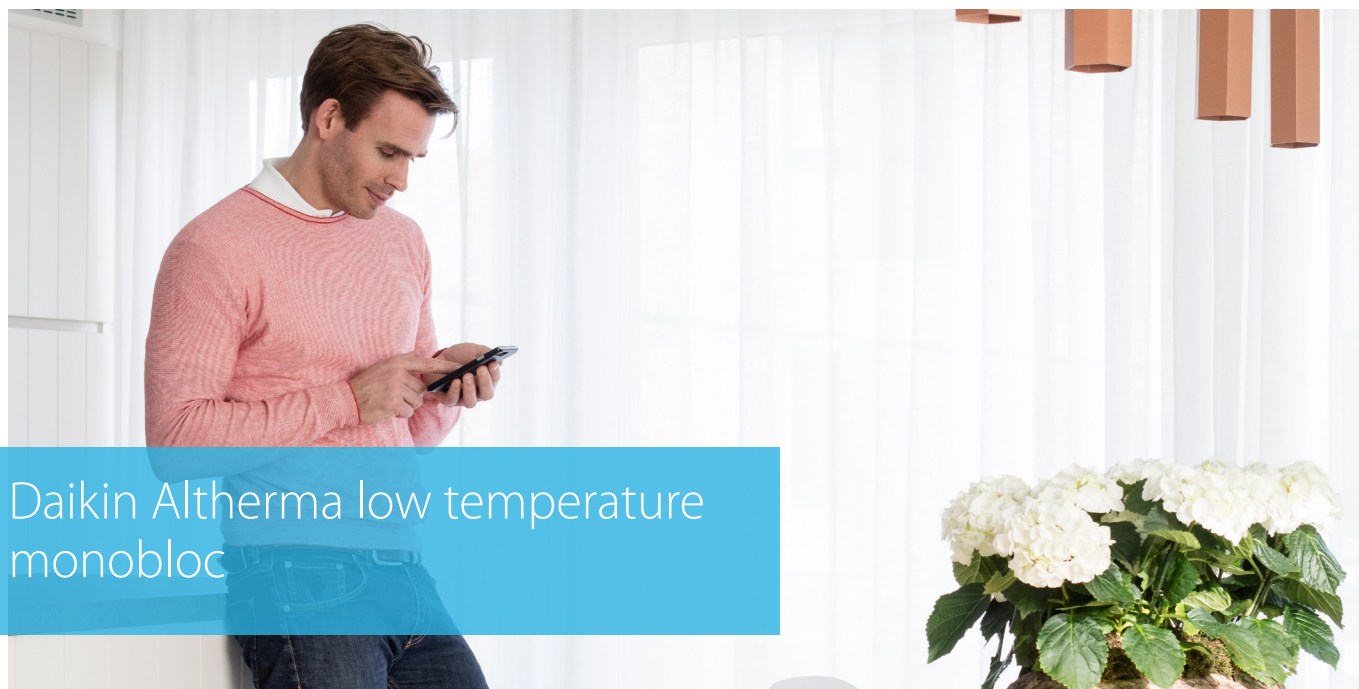
(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)  
(3) Contains fluorinated greenhouse gases

Type	Material name		Daikin Altherma LT split wall mounted /floor standing	
			4-8kW	11-16kW
Controls	LAN adapter	BRP069A62		
	LAN adapter + PV solar connection	BRP069A61		
	Remote user interface (DE, FR, NL, IT)	EKRUCBL1		
	Remote user interface (EN, ES, EL, PT)	EKRUCBL3		
	Remote user interface (EN, SV, NO, FI)	EKRUCBL2		
	Remote user interface (EN, TR, PL, RO)	EKRUCBL4		
	Remote user interface (DE, CS, SL, SK)	EKRUCBL5		
	Remote user interface (EN, HR, HU, BG)	EKRUCBL6		
	Remote user interface (EN, DE, RU, DA)	EKRUCBL7		
	Simplified user interface	EKRUCBSB		
	Room thermostat (wired)	EKRTWA		
Adapter	Room thermostat (wireless)	EKTRT1		
	Centralised controller kit	EKCC-W		
	Demand PCB	EKRP1AHTA		
Back-up heater	Digital I/O PCB	EKRP1HBAA		
	Back-up heater kit	EKLBUEHCB6W1		
	Booster heater for tank integrated design	EKB5HCA3V3		
Drain	Bottom plate heater	EKBPTH16A		
	Drain kit	EKDK04		
	Drain pan for indoor wall munted	EKHBDFCA2		
Filter	Drain pan for outdoor (excl heater)	EKDP008CA		
	Drain pan heater	EKDPH008CA		
	Magnetic filter without additives	K.FERNOXTF1		
Installation	Magnetic filter with additive (500ml inhibitor fluid F1)	K.FERNOXTF1FL		
	Bi-zone kit	BZKA7V3		
	Snowcover	EK0165NCA		
Sensor	U-beams for outdoor	EKFT008CA		
	UK tank kit	EKVSU260A		
	Remote indoor sensor	KRCS01-1B		
Others	Remote sensor for outdoor	EKRSCA1		
	External sensor	EKRTETS		
Others	PC cable	EKPCCAB1		
	Low sound cover for ERLQ-CV3	EKLN-A		









## Daikin Altherma low temperature monobloc

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 **ECH<sub>2</sub>O** 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

### Easy installation

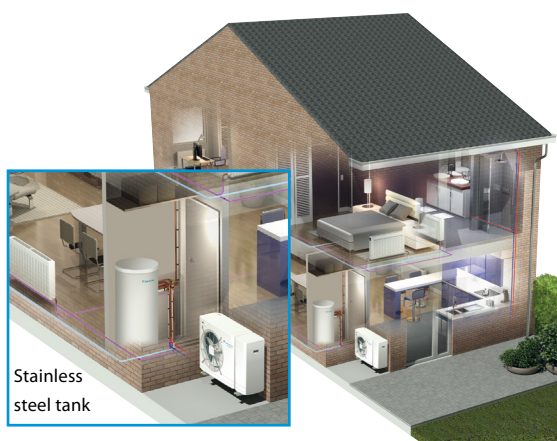
- › Sealed refrigerant means there is no need for refrigerant handling or F-gas qualifications
- › Key hydraulic parts reduce the risk of installation errors and need for external parts such as expansion vessel, pump or isolation valves
- › Fewer components lower the installation time and help maximise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

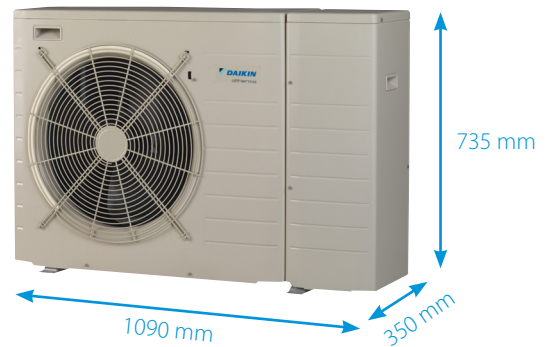


## The 5-7 kW range of Daikin Altherma monobloc

A<sup>++</sup>

55°C

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

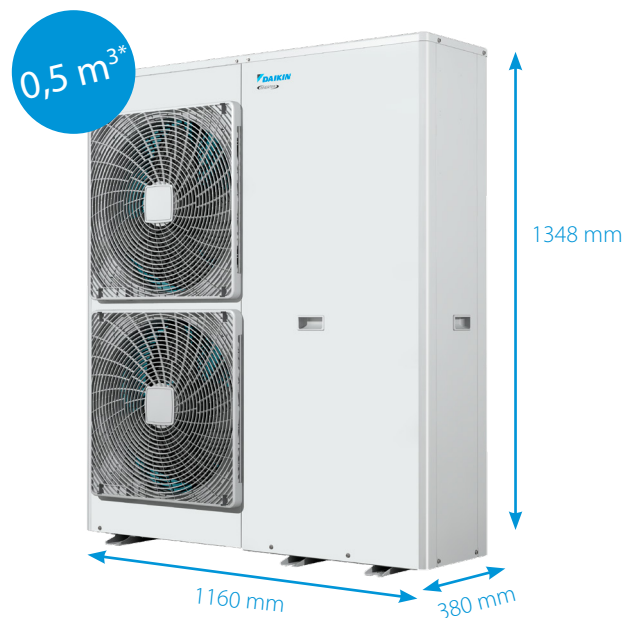


## The 11-16 kW range of Daikin Altherma monobloc

A<sup>++</sup>

55°C

- › Smaller casing
- › Back-up heater less models and models with 3V integrated back-up heater for maximum installation flexibility
- › 1 ph and 3 ph models
- › Reversible and heating only models
- › LAN Adapter connection
- › A++ heating energy label (from G to A++)



\*-36% compared to current monobloc

# Daikin Altherma

## low temperature monobloc

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



Single Unit				EBLQ/EDLQ	05CV3	07CV3	05CV3	07CV3
Space heating	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++			
			ηs (Seasonal space heating efficiency)	%	172	163	172	163
	Average climate water outlet 35°C	General	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	HeightxWidthxDepth		mm	735x1,090x350			
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			
		Ambient	Min.~Max.	°CDB	-25.0 ~35.0			
	Domestic hot water	Water side	Min.~Max.	°C	25~80			
Refrigerant	Type				R-410A			
	GWP				2,088			
	Charge			kg	1.30	1.45	1.30	1.45
	Charge			TCO2Eq	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	HeightxWidthxDepth	mm	360x340x97.0	
Weight	Unit		kg	4.00	

Back-up heater kit				EKMBUHC3V3	EKMBUHC9W1
Casing	Colour			White	
	Material			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	mm	560x250x210	
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



# Daikin Altherma low temperature monobloc without back-up heater

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

- › Monobloc all-in-one concept including hydraulic parts
- › Separate indoor wiring center (control box)
- › LAN Adapter connection
- › Possible to combine with domestic hot water
- › Energy efficient heating only system based on air-to-water heat pump technology
- › A++ heating energy label (from G to A++)



E(D-B)LQ011-016CV3




011-1W0259 → 261



A++

55°C

R-410A

Single Unit				EBLQ/EDLQ	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
 Space heating	Average climate water outlet 55°C	General	η <sub>s</sub> (Seasonal space heating efficiency)	120	123	119	120	123	119	
	SCOP		3.09	3.16	3.06	3.09	3.16	3.06		
	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+						
			η <sub>s</sub> (Seasonal space heating efficiency)	156	153	149	156	153	149	
			SCOP	3.98	3.90	3.80	3.98	3.90	3.80	
			Seasonal space heating eff. class	A++		A+	A++		A+	
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 (only applicable to EBLQ)	Nom.		kW	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)	
Power input	Cooling	Nom.	kW	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)	
	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				4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)	4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)	
EER (only applicable to EBLQ)				3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)	3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)	
SEER (only applicable to EBLQ)				3.85	3.89	3.90	3.85	3.89	3.90	
Dimensions	Unit	HeightxWidthxDepth		mm	1,348x1,160x380					
Weight	Unit			kg	151			154		
Operation range (3) Heating	Ambient	Min.~Max.	°CWB	-25~35						
				Water side Min.~Max. °C 25~55						
Operation range (3) Cooling (only applicable to EBLQ)	Ambient	Min.~Max.	°CDB	10~46						
				Water side Min.~Max. °C 5~22						
Operation range (3) Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35						
				Water side Min.~Max. °C 25~80						
Refrigerant	Type			R-410A						
	GWP			2087.5						
	Charge	kg		3.40						
	Charge	TCO <sub>2</sub> Eq		7.10						
	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	

Wiring centre				EKCB07CV3	EK2CB07CV3
Casing	Colour				White
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth			mm
Weight	Unit				kg

Back-up heater kit				EKMBUHC3V3	EKMBUHC9W1
Casing	Colour				White
	Material				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth			mm
Weight	Unit				kg

(1) Condition 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) Including back-up heater and/or booster heater, see details in databook.

# Daikin Altherma

## low temperature monobloc with integrated back-up heater

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

- › Monobloc all-in-one concept including hydraulic parts
- › Separate indoor wiring center (control box)
- › LAN Adapter connection
- › Possible to combine with domestic hot water
- › Energy efficient heating only system based on air-to-water heat pump technology
- › A++ heating energy label (from G to A++)



E(D-B)LQ011-016CV3




011-1W0259 → 261



A++






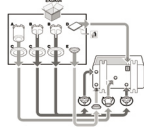





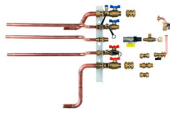


55°C

R-410A

Single Unit				EBLQ/EDLQ	011C3V3	014C3V3	016C3V3	011C3W1	014C3W1	016C3W1
 Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	120	123	119	120	123	119	
			SCOP	3.09	3.16	3.06	3.09	3.16	3.06	
			Seasonal space heating eff. class	A+						
	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	156	153	149	156	153	149	
			SCOP	3.98	3.90	3.80	3.98	3.90	3.80	
			Seasonal space heating eff. class	A++		A+	A++		A+	
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 (only applicable to EBLQ)	Nom.		kW	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)	
Power input	Cooling	Nom.	kW	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)	
	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				4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)	4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)	
EER (only applicable to EBLQ)				3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)	3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)	
SEER (only applicable to EBLQ)				3.85	3.89	3.90	3.85	3.89	3.90	
Dimensions	Unit	HeightxWidthxDepth		mm	1,348x1,160x380					
Weight	Unit			kg	157			160		
Operation range (3) Heating	Ambient	Min.~Max.	°CWB	-25~35						
				Water side	Min.~Max. °C					
Operation range (3) Cooling (only applicable to EBLQ)	Ambient	Min.~Max.	°CDB	25~55						
				Water side	Min.~Max. °C					
Operation range (3) Domestic hot water	Ambient	Min.~Max.	°CDB	10~46						
				Water side	Min.~Max. °C					
Refrigerant	Type	GWP	kg	-25~35						
				R-410A						
				2087.5						
				3.40						
				7.10						
				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

Wiring centre				EKCB07C3V3	EK2CB07C3V3
Casing	Colour	White			
	Material	Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth		mm	
				360x340x97.0	
Weight	Unit			kg	
				4.00	

(1) Condition 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) Including back-up heater and/or booster heater, see details in databook.

	Type	Material name	Daikin Altherma LT monobloc			Illustration
			5-7 kW	11-16 kW BUH-less	11-16 kW with 3V BUH	
Controls	LAN adapter	BRP069A62	•	•	•	
	LAN adapter + PV solar connection	BRP069A61	•	•	•	
	Remote user interface (DE, FR, NL, IT)	EKRUCBL1	•	•	•	
	Remote user interface (EN, ES, EL, PT)	EKRUCBL3	•	•	•	
	Remote user interface (EN, SV, NO, FI)	EKRUCBL2	•	•	•	
	Remote user interface (EN, TR, PL, RO)	EKRUCBL4	•	•	•	
	Remote user interface (DE, CS, SL, SK)	EKRUCBL5	•	•	•	
	Remote user interface (EN, HR, HU, BG)	EKRUCBL6	•	•	•	
	Remote user interface (EN, DE, RU, DA)	EKRUCBL7	•	•	•	
	Simplified user interface	EKRUCBSB	•			
	Room thermostat (wired)	EKRTWA	•	•	•	
	Room thermostat (wireless)	EKRTR1	•	•	•	
Adapter	Digital I/O PCB	EKRPHBAA		•		
Back-up heater	Back-up heater monobloc	EKMBUHC3V3/C9W1	•	•		
	Bottom plate heater	EKBPTH16A		•		
Drain	Drain kit	EKDK04		•		
Sensor	Remote sensor for OU	EKRSCA1	•	•	•	
	External sensor	EKRSETS	•	•	•	
	Remote sensor for IU	KRCS01-1	•	•	•	
Wiring centre	Control box	EKCB07CAV3	•	•	•	
	Option box	EK2CB07CAV3	•	•	•	
By pass	Valve kit	EKMBHBP1	•	•	•	
Bizone	Bizone kit	BZKA7V3	•	•	•	
Others	Cable	EKPCCAB3	•			

# Daikin Altherma high temperature

## Why choose a Daikin Altherma high temperature split

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

### ✓ Comfort

#### Best for renovation projects

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

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

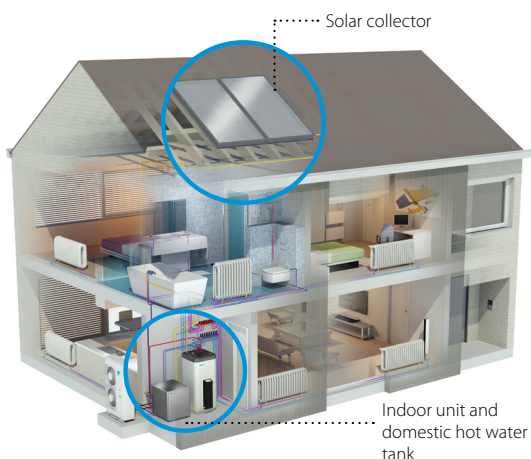
Whether your customer wants only domestic hot water or the advantage of solar energy, Daikin offers a wide range of options, including:

#### Stainless steel domestic hot water tank

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

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

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



#### ECH<sub>2</sub>O thermal store: hot water savings with solar energy

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





## Energy efficiency

### Powered by renewable energy

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



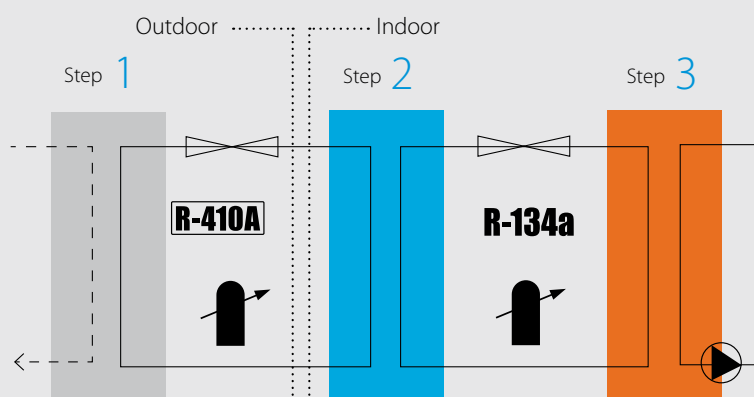
## Reliability

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

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

### Cascade technology

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



- 1 The outdoor unit** extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via R-410A refrigerant
- 2 The indoor unit** increases the temperature with R-134a refrigerant
- 3 The refrigerant circuit** transfers the heat to the water in the system

# Daikin Altherma

## high temperature split

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

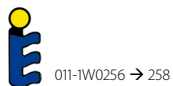
- › Energy efficient heating only system based on air to water heat pump technology
- › Single phase floor standing indoor unit up to 16kW
- › Three phase floor standing indoor unit up to 16kW
- › High temperature application: up to 80°C without electric heater
- › Easy replacement of existing boiler, without changing heating pipes
- › Combinable with high temperature radiators
- › Low energy bills and low CO<sub>2</sub> emissions
- › Inverter controlled scroll compressor



ERRQ-AAV1



EKHBRD-ADV17/Y17




011-1W0256 → 258



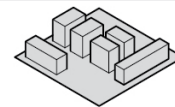
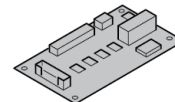
up to

**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)	3.80 (1) / 4.40 (2) / 2.67 (3)	3.87 (1) / 4.40 (2) / 2.67 (3)	5.02 (1) / 5.65 (2) / 3.87 (3)	5.09 (1) / 5.65 (2) / 3.87 (3)	5.86 (1) / 6.65 (2) / 4.31 (3)	
COP						2.97 (1) / 2.50 (2) / 4.20 (3)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (1) / 2.48 (2) / 3.72 (3)	2.73 (1) / 2.41 (2) / 3.72 (3)	2.97 (1) / 2.50 (2) / 4.20 (3)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (1) / 2.48 (2) / 3.72 (3)	2.73 (1) / 2.41 (2) / 3.72 (3)	
 Space heating	Average climate water outlet 55°C	General	SCOP ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%		2.96 115		2.98 116		3.01 117	2.96 115		2.98 116		3.01 117	
						A+										
	Average climate water outlet 35°C	General	SCOP ηs (Seasonal space heating efficiency) Seasonal space heating eff. class	%		2.70 105		2.81 110		2.88 112	2.70 105		2.81 110		2.88 112	
						C	B			C			B			
Indoor Unit					EKHBRD	011ADV17		014ADV17		016ADV17	011ADY17		014ADY17		016ADY17	
Casing	Colour					Metallic grey										
	Material					Precoated sheet metal										
Dimensions	Unit	HeightxWidthxDepth	mm			705x600x695										
Weight	Unit				kg	144					147					
Operation range	Heating	Ambient	Min.~Max.	°C		-20.0 / 0.00 ~20										
		Water side	Min.~Max.	°C		25~80.0										
	Domestic hot water	Ambient	Min.~Max.	°CDB		-20.0 ~35.0										
Refrigerant		Water side	Min.~Max.	°C		25~80										
	Type					R-134a										
	Charge				kg	2.60										
Sound pressure level	Nom.	dBA			43.0 / 46.0 / 0.00 / 0.00	45.0 / 46.0 / 0.00 / 0.00	46.0 / 46.0 / 0.00 / 0.00	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	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	45.0 / 0.00 / 0.00	40.0 / 0.00 / 0.00	43.0 / 0.00 / 0.00	45.0 / 0.00 / 0.00	43.0 / 0.00 / 0.00	45.0 / 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	HeightxWidthxDepth	mm			1,345x900x320										
Weight	Unit				kg	120										
Compressor	Quantity					1										
	Type					Hermetically sealed scroll compressor										
Operation range	Heating	Min.~Max.	°CWB			-20~20										
	Domestic hot water	Min.~Max.	°CDB			-20~35										
Refrigerant	Type					R-410A										
	GWP					2,087.5										
	Charge				kg	4.5										
	Charge				TCO2Eq	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

Type		Material name
Controls	Remote user interface	EKRUAHTB
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTR1
	Standard protocol interface for HT and Flex Type	RTD-W
	Centralised controller kit	EKCC-W
Adapter	Demand PCB	EKRPAHTA
	Digital I/O PCB	EKRPIHBAA
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





# Monobloc

## domestic hot water heat pump



## Why choose a monobloc domestic hot water heat pump ?

The high performance monobloc domestic hot water heat pump is the newest 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 2meters
- › High tapping rate L, XL for guaranteeing maximum domestic hot water flow
- › A+ seasonal energy efficiency

### ✓ Easy to install and control

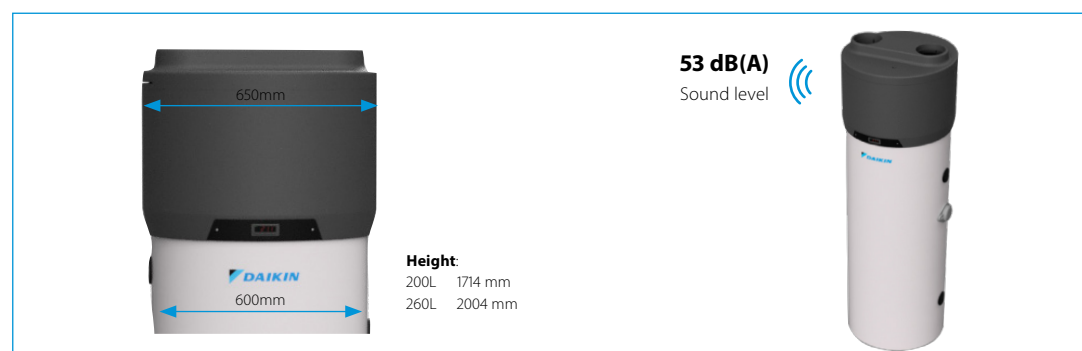
- › All components are built-in and ready to work
- › Compact sizes and low weight, which make it easily manoeuvrable through small doors and spaces
- › Easy connection, from top of the unit, maximizes placing possibilities
- › 3 easy operating modes, Eco – Auto – Boost, for your personal preferences

### ✓ Renewable power

- › Produces domestic hot water by extracting energy from the outside air
- › For the 260liter 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





# Domestic hot water heat pump

## Enhanced hot water comfort

- › Quiet operation: with 36dBA at 2m, 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



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			TCO2Eq	1.287		
	Charge			kg	0.900		
Heat pump	Casing	Colour				White body / Black top	
		Material				Cover: EPP top finishing	
	Defrost method				Active with hot gas valve		
	Automatic defrost start			°C	-2		
	System pressure	Max.		bar	7		
	Operation	Ambient	Min.	°CDB	-7		
	range		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	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			55				
Average climate		AEC (Annual electricity consumption)		kWh	835	1,323	
		η wh (water heating efficiency)		%	123	127	
Cold climate		AEC (Annual electricity consumption)		kWh	1,091	1,826	
		η wh (water heating efficiency)		%	94	92	
Warm climate		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).

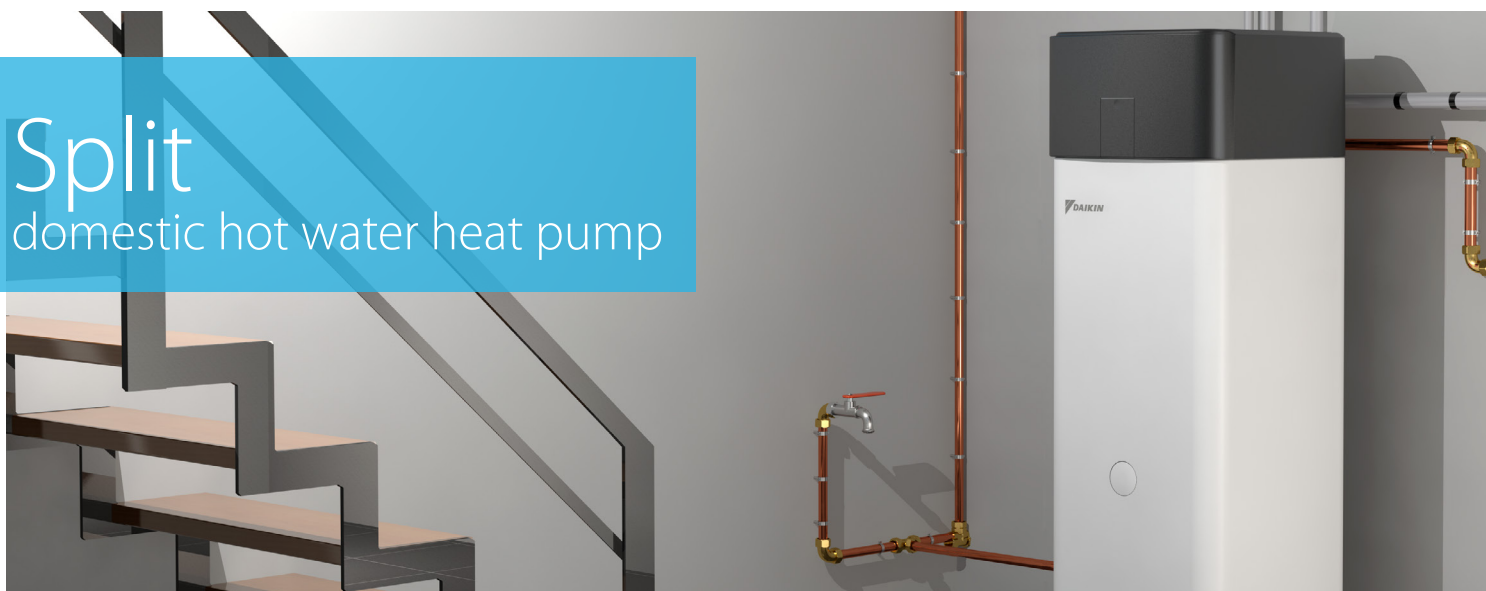
(2) Temperature of incoming air supply = 15°C, temperature of boiler storage environment = 20°C, water heated from 10°C to 55°C (according to UNI EN 1614 7-2011).

(3) Indoor temperature : 27°CDB, 19°CWB; outdoor temperature : 46°CDB, 24°CWB

(4) Indoor temperature : 27°CDB, 19°CWB; outdoor temperature : 35°CDB, 24°CWB

# Split

## domestic hot water heat pump



## 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 controls for easy installation and maintenance

### ✓ Reliability

- › Electrical backup (2.5 kW) ensures hot water under all circumstances; the 500l tank can also be equipped with an external hydraulic backup
- › The ECH<sub>2</sub>O thermal store is engineered to provide you with fresh, healthy and safe hot water
- › By just using the heat pump, the temperature of the water can reach up to 55°C and its production is guaranteed down to -15°C

### ✓ Energy efficiency

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



Polypropylene casing, resistant to corrosion and shocks

Stainless steel heat exchanger for hot water production


Polyurethane insulation of 5 cm to 8 cm

# Domestic hot water heat pump



## 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 500L tank can also be equipped with an external hydraulic back-up.
- › Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump (optional)



Efficiency data				EKHHP + ERWQ	300A2V3 + 02AV3	500A2V3 + 02AV3
 Domestic hot water heating	General	Declared load profile			L	XL
	Average climate	η <sub>wh</sub> (water heating efficiency) %			119	123
		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	HeightxWidthxDepth		mm	1,750x615x615	1,750x790x790
Weight	Unit			kg	70	80
Tank	Water volume			l	294	477
	Maximum water temperature			°C	85	
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB	2~35	
		Water side	Min.~Max.	°C	5~55	
Refrigerant	Type			R-410A		
Outdoor Unit				ERWQ	02AV3	02AV3
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	
Weight	Unit			kg	35	
Compressor	Quantity				1	
	Type				Hermetically sealed swing compressor	
Operation range	Domestic hot water	Min.~Max.		°CDB	-15~35	
Refrigerant	Type				R-410A	
	GWP				2,087.5	
	Charge			kg	1.05	
	Charge			TCO2Eq	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 HT Flex Type

## 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 High Temperature Flex Type

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


**R-410A**

Outdoor Unit					EMRQ	8AB	10AB	12AB	14AB	16AB
Heating capacity	Nom.				kW	22.4 (1)	28 (1)	33.6 (1)	39.2 (1)	44.8 (1)
 Seasonal efficiency	Domestic hot water heating	General	Declared load profile			XL				
		Average	η <sub>wh</sub>	%	93		83.7	93		
		climate	(water heating efficiency)							
			Water heating energy efficiency class	A						
Casing	Colour					Daikin White				
	Material					Painted galvanized steel plate				
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x1,300x765					
Weight	Unit			kg	331		339			
Operation range	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		
Piping connections				TCO <sub>2</sub> eq	21.5	22.1	22.5	23.2		
	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	HeightxWidthxDepth			705x600x695					
Weight	Unit				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				2.60					
					3.718					
		GWP				1,430				
Sound pressure level	Nom.				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				40 / 0 / 0	43 / 0 / 0	45 / 0 / 0	40 / 0 / 0	43 / 0 / 0

## 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	•



Daikin Altherma

# high capacity range

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 LT high capacity ?

### ✓ 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 low temperature high capacity

- › 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
	water outlet 35°C		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	Width	mm	1,573			
					766			
					396			
Weight	Unit			kg	97.0	105	137	153
	Packed unit			kg	109	117	149	165
	Type				Brazed plate			
Water side Heat exchanger	Water volume			l	3	5	6	9
	Water flow rate	Cooling	Nom.	l/min	60 (3)	90 (3)	120 (3)	181 (3)
		Heating	Nom.	l/min	60 (2)	90 (2)	120 (2)	181 (2)
Sound power level	Nom.			dBA	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 drop	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	Width	mm	1,680			
					765			
					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 (e.g. 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

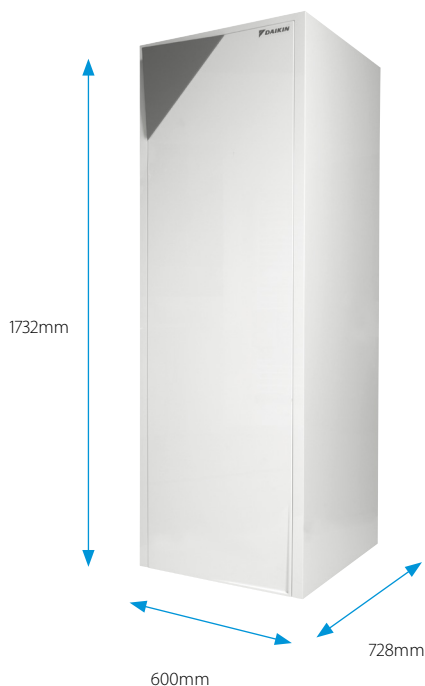




## Daikin Altherma ground source heat pump

### Why choose a Daikin Altherma ground source heat pump

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



#### **Comfort**

Simple solution for installers

#### **Quick and easy installation**

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

#### **Compact design**

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





## Energy efficiency



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

### Equipped with our signature inverter technology

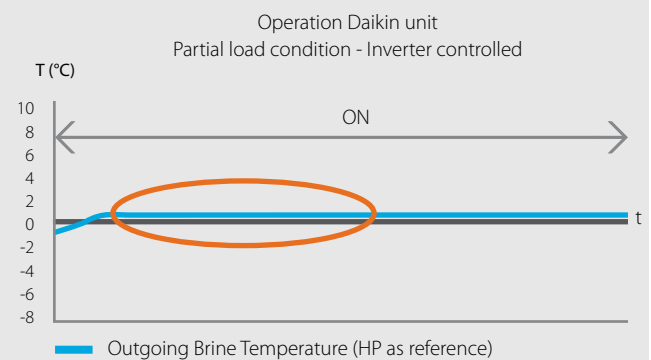
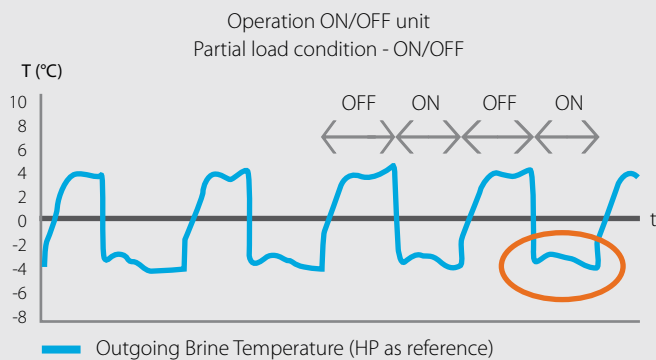
Our Daikin inverter efficiently controls the unit's motor speed and reduces energy consumption by up to 30%. Rather than expending additional energy by starting and stopping, the inverter adjusts the speed of the motor so that it runs continuously and more efficiently in the long run.

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

### Case study

#### Typical application:

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



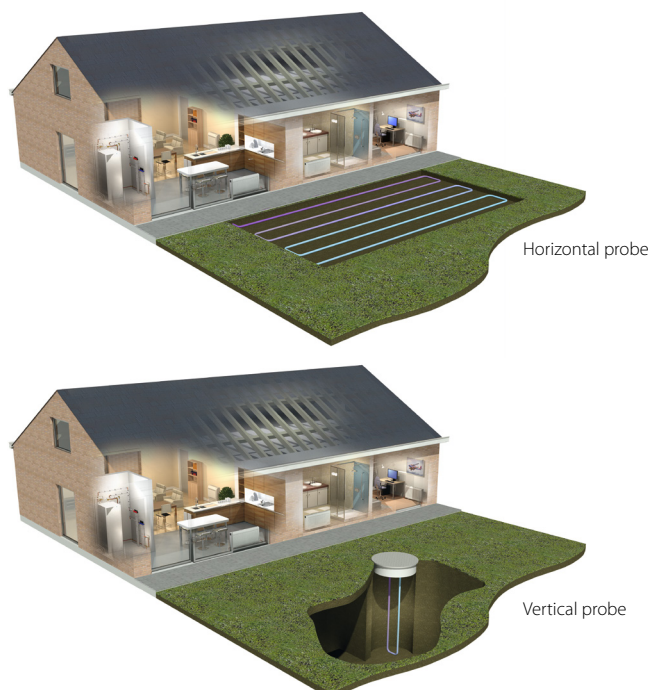
## Reliability

### For new homes and large-scale renovations

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

### Reliable climate control

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



## Case study

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

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

#### 1 Full load operation with additional electric assistance (if required)

The heat load is higher than the maximum heating capacity

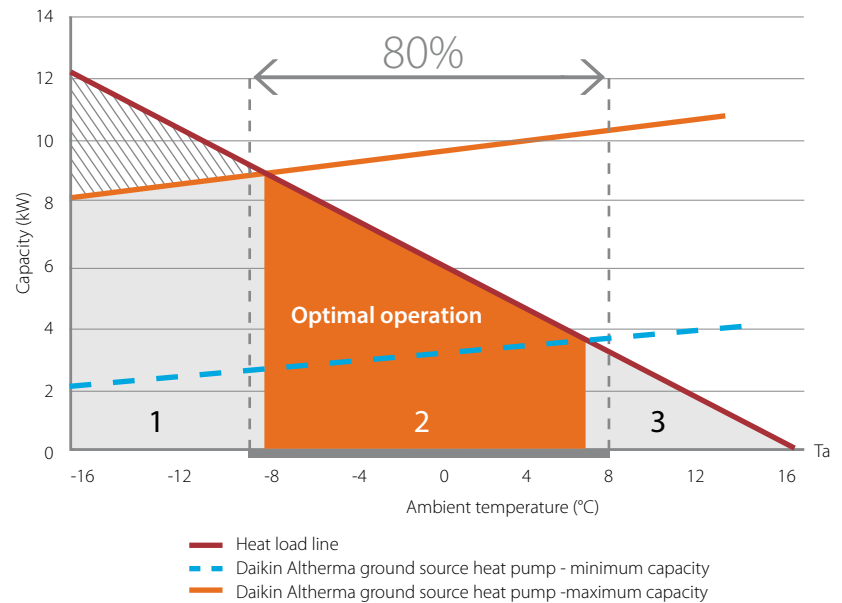
#### 2 Partial load operation

The heat load is lower than the maximum heating capacity and higher than the minimum heating capacity

This is the optimal operation zone

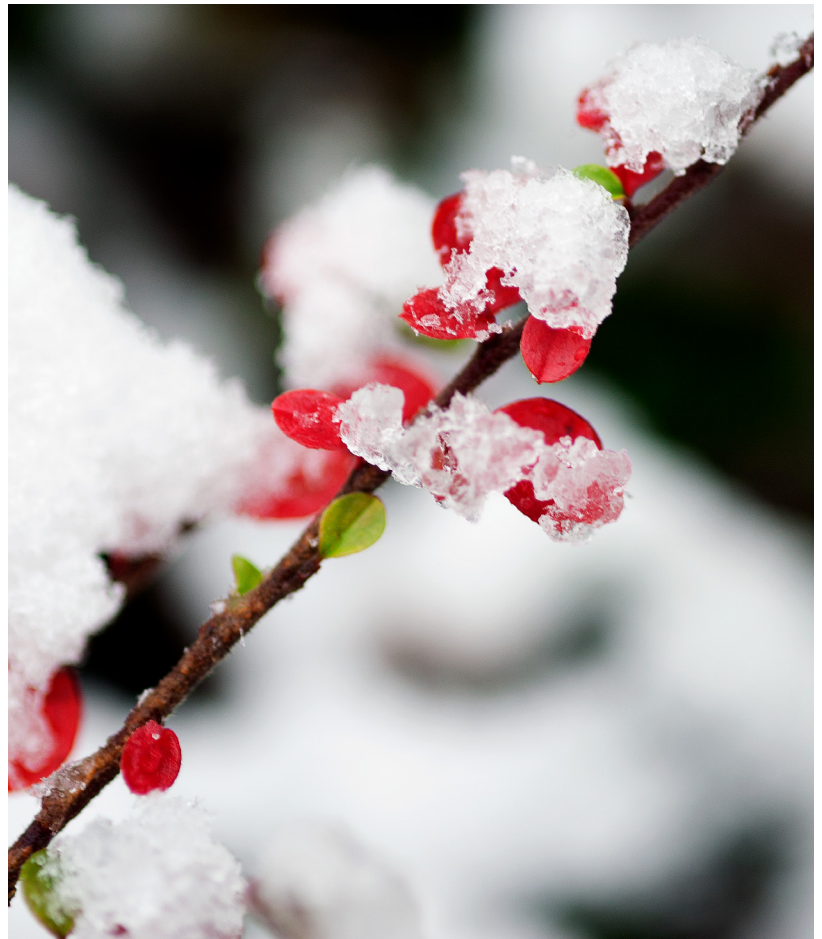
#### 3 On/Off operation

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



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

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



# Daikin Altherma

## ground source heat pump

### 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



Indoor Unit				EGSQH	10S18A9W
Space heating	Average climate water outlet 55°C	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	144
			Seasonal space heating eff. class		A++
	Average climate water outlet 35°C	General	η <sub>s</sub> (Seasonal space heating efficiency)	%	202
			Seasonal space heating eff. class		A++
Domestic hot water heating	General	Declared load profile			L
	Average climate	η <sub>wh</sub> (water heating efficiency)	%		93.1
Heating capacity	Min.				3.11(1) / 2.47(2)
	Nom.				10.2(1) / 9.29(2)
	Max.				13.0(1) / 11.9(2)
	Nom.				2.34(1) / 2.82(2)
Power input	Nom.				4.35(1) / 3.29(2)
COP					White
Casing	Colour				Precoated sheet metal
	Material				1,732x600x728
Dimensions	Unit	HeightxWidthxDepth		mm	210
Weight	Unit			kg	180
Tank	Water volume			l	1.36
	Insulation	Heat loss		kWh/24h	Anode
	Corrosion protection				25 / 25 ~55 / 60
Operation range	Domestic hot water	Water side Min.~Max.		°C	R-410A
Refrigerant	Type				2,087.5
	GWP				1.80
	Charge		kg		3.76
	Charge		TCO2Eq		Electronic expansion valve
	Control				46.0
Sound power level	Nom.			dBA	32.0
Sound pressure level	Nom.			dBA	9W/3~/50/400
Power supply	Name/Phase/Frequency/Voltage			Hz/V	25
Current	Recommended fuses			A	

### Options

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

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

# 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.



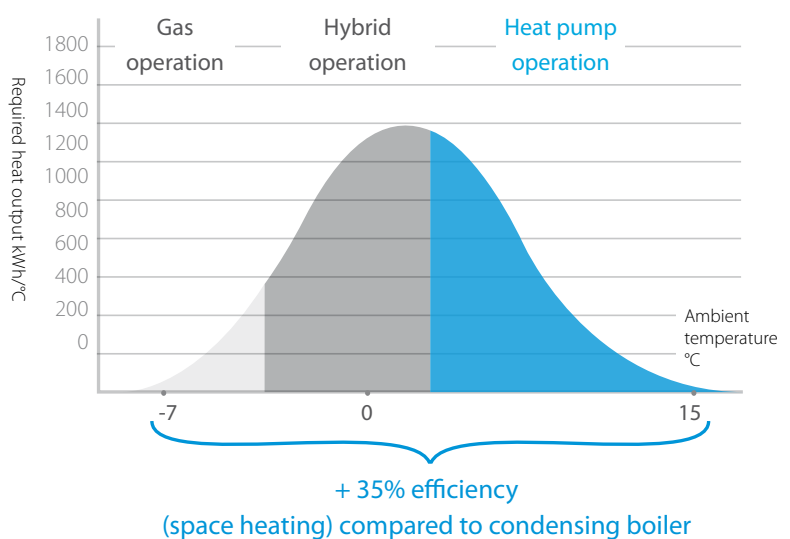
### Comfort

#### 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

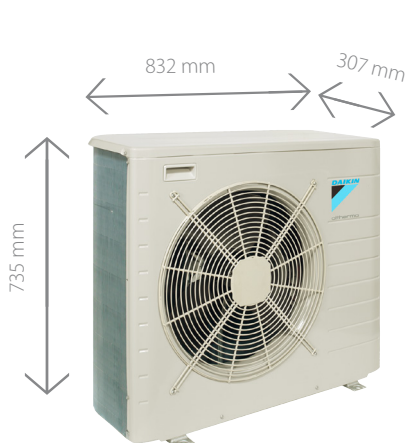
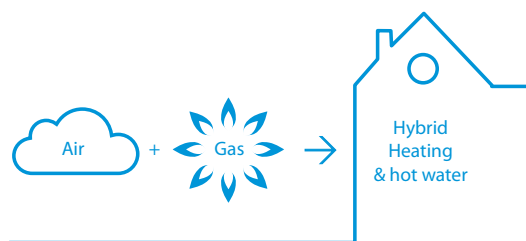


- › Heat load: 14 kW
- › 70% heat pump output
- › 30% gas boiler output

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





Heat pump outdoor unit



Heat pump indoor unit

### 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

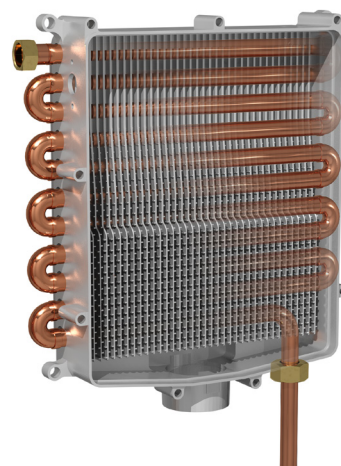
Unique dual heat exchanger increases efficiency up to 15% compared to traditional gas boilers

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



## Reliability

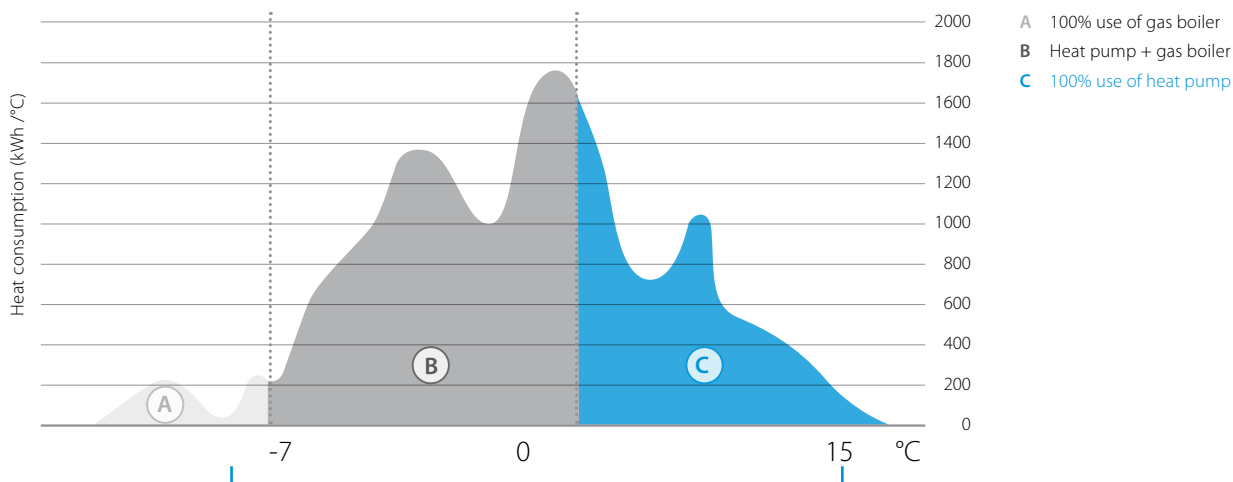
- › Low investment cost with no need to replace existing piping and radiators
- › Low running costs for heating and domestic hot water
- › Compact dimensions
- › Ideal for renovation applications
- › Easy and fast installation



## Case study

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

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



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

	Daikin altherma hybrid heat pump	New gas condensing boiler	Existing gas condensing boiler
<b>Space heating</b>			
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 €
<b>DHW HEATING</b>			
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 €
<b>TOTAL</b>			
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 hybrid heat pump

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 32kW
- › Easy and fast installation thanks to the compact dimensions and quick interconnections



Efficiency data					EHYHBH05AV32 + EVLQ05CV3	EHYHBH08AV32 + EVLQ08CV3	EHYHBX08AV3 + EVLQ08CV3
	Space heating	Average climate water outlet 55°C	General	SCOP	3.28	3.24	3.29
				η <sub>s</sub> (Seasonal space heating efficiency)	128	127	129
				Seasonal space heating eff. class	A++		
	Domestic hot water heating	Average climate	General	Declared load profile	XL		
				η <sub>wh</sub> (water heating efficiency)	95.8		
				Water heating energy efficiency class	A		
Heating capacity	Nom.			kW	4.40(1) / 4.03(2)	7.40(1) / 6.89(2)	7.40(1) / 6.89(2)
Cooling capacity	Nom.			kW	-	-	6.86(1) / 5.36(2)
Power input	Heating	Nom.		kW	0.870(1) / 1.13(2)	1.66(1) / 2.01(2)	1.66(1) / 2.01(2)
	Cooling	Nom.		kW	-	-	2.01(1) / 2.34(2)
COP					5.04(1) / 3.58(2)	4.45(1) / 3.42(2)	4.45(1) / 3.42(2)
EER					-	-	3.42(1) / 2.29(2)

Indoor unit (Hydrobox & Boiler)					EHYHBH05AV32	EHYHBH08AV32	EHYHBX08AV3	EHYKOMB33AA2	EHYKOMB33AA3
Central heating	Heat input Q <sub>h</sub> (net calorific value)	Nom	Min/Max	kW	-				6.2 / 7.6 / 7.6 / 22.1 / 27.0 / 27.0
					-				6.7 / 8.2 / 8.2 / 21.8 / 26.6 / 26.6
	Output P <sub>h</sub> at 80/60°C	Min/Nom		kW	-				98 / 107
					-				15 / 80
Domestic hot water	Operation range	Min/Max		°C	-				7.6/32.7
					-				9.0 / 15.0
	Output	Min/Nom		kW	-				40/65
					-				15
Gas	Water flow	Rate	Nom	l/min	-				9.0 / 15.0
					-				40/65
	Operation range	Min/Max		°C	-				15
					-				40/65
Connection	Diameter			mm	-				15
					-				15
	Consumption (G20)	Min/Max		m <sup>3</sup> /h	-				0.78/3.39
					-				0.90/3.93
Supply air	Connection			mm	-				100
					-				1
	Concentric			mm	-				60
					-				60
Flue gas	Connection			mm	-				60
					-				60
Casing	Colour			mm	White				White - RAL9010
					Precoated sheet metal				Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164				710x450x240
Weight	Unit	Empty		kg	30.0	31.2			36
Power supply	Phase/Frequency/Voltage				Hz/V				1~/50/230
Electrical power consumption	Max.			W	-				55
					-				2
Operation range	Heating	Ambient	Min.~Max.	°C	-25 ~25				-
					25 ~55				-
					10 ~43				-
	Cooling	Ambient	Min.~Max.	°CDB	~--				-
					~--				-
					5 ~22				-

Outdoor unit				EVLQ05CV3		EVLQ08CV3	
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307			
Weight	Unit		kg	54		56	
Compressor	Quantity			1			
	Type			Hermetically sealed swing compressor			
Operation range	Heating	Min.~Max.	°CWB	-25~25			
Refrigerant	Type			R-410A			
	GWP			2,088			
	Charge		kg	1.5		1.6	
	Charge		TCO2Eq	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)

# Daikin Altherma hybrid heat pump + multi



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



## Multi features

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

Control with Daikin Online Controller app



## BLUEEVOLUTION

	Hybrid heat pump		Wall mounted												Concealed ceiling												Floor standing			Round flow cassette			Fully flat cassette				Ceiling suspended			Concealed floor standing			
			FTXJ-MW/S				CTXM-M		FTXM-M						FDXM-F3				FBA-A				FVXM-F			FCAG-A			FFA-A				FHA-A			FNA-A							
	05	08	20	25	35	50	15	20	25	35	42	50	60	71	25	35	50	60	25	35	50	60	25	35	50	35	50	60	25	35	50	60	35	50	60	25	35	50	60				
Connectable indoor units	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
3MXM52N	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
3MXM68N	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
4MXM68N	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
4MXM80N	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
5MXM90N	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		



Efficiency data				CHYHBH05AV32 /3MXM52N	CHYHBH05AV32 /3MXM68N	CHYHBH05AV32 /4MXM68N	CHYHBH05AV32 /4MXM80N	CHYHBH08AV32 /4MXM80N	CHYHBH05AV32 /5MXM90N	CHYHBH08AV32 /5MXM590N
Heating capacity	Nom.		kW	4.41 (1)	4.50 (1)			6.78 (1)	4.50 (1)	6.78 (1)
COP				4.49 (1)	3.91 (1)		4.04 (1)	4.17 (1)	4.04 (1)	4.17 (1)
Pump				51.80 (1)						
Seasonal efficiency	Domestic hot water heating	General Average climate	Declared load profile η <sub>wh</sub> (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 <sub>h</sub> (net calorific value)	Nom	Min/Max	kW	6.2 / 7.6 / 7.6 / 22.1 / 27.0 / 27.0				
	Output P <sub>h</sub> at 80/60°C	Min/Nom		kW	6.7 / 8.2 / 8.2 / 21.8 / 26.6 / 26.6				
	Efficiency	Net calorific value		%	98 / 107				
	Operation range	Min/Max		°C	15 / 80				
Domestic hot water	Output	Min/Nom		kW	7.6/32.7				
	Water flow	Rate	Nom	l/min	9.0 / 15.0				
	Operation range	Min/Max		°C	40/65				
Gas	Connection	Diameter		mm	15				
	Consumption (G20)	Min/Max		m <sup>3</sup> /h	0.78/3.39				
	Consumption (G25)	Min/Max		m <sup>3</sup> /h	0.90/3.93				
	Consumption (G31)	Min/Max		m <sup>3</sup> /h	0.30/1.29				
Supply air	Connection			mm	100				
	Concentric				1				
Flue gas	Connection			mm	60				
Casing	Colour				White - RAL9010				
	Material				Precoated sheet metal				
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	710x450x240				
Weight	Unit	Empty		kg	36				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230				
Electrical power consumption	Max.			W	55				
	Standby			W	2				

Outdoor unit					3MXM52N	3MXM68N	4MXM68N	4MXM80N	5MXM90N		
Dimensions	Unit	HeightxWidthxDepth			mm					734x958x340	
Weight	Unit				kg	57	62	63	67	68	
Sound power level	Cooling				dBA	59	61	61		64	
	Heating				dBA	59	61	61		64	
Sound pressure level	Cooling	Nom.			dBA	46	48	48	49	52	
	Heating	Nom.			dBA	47	48	48	49	52	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~-46						
	Heating	Ambient	Min.~Max.	°CWB	-15~-18						
Refrigerant	Type				R-32						
	GWP				675						
	Charge				kg/TCO2Eq	1.80/1.2	2.00/1.4	2.00/1.4	2.40/1.6		
Piping connections	Liquid	OD			mm	6.35					
	Gas	OD			mm	9.5					
	Piping length	OU - IU	Max.			m	25				
	Additional refrigerant charge				kg/m	0.02 (for piping length exceeding 30m)					
	Level difference	IU - OU	Max.			m	15				
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/220-240					
Current - 50Hz	Maximum fuse amps (MFA)				A	30					

# Options

Type		Material name	
Controls	LAN adapter	BRP069A62	
	LAN adapter + PV solar connection	BRP069A61	
	Remote user interface (DE, FR, NL, IT)	EKRUCBL1	
	Remote user interface (EN, ES, EL, PT)	EKRUCBL3	
	Remote user interface (EN, SV, NO, FI)	EKRUCBL2	
	Remote user interface (EN, TR, PL, RO)	EKRUCBL4	
	Remote user interface (DE, CS, SL, SK)	EKRUCBL5	
	Remote user interface (EN, HR, HU, BG)	EKRUCBL6	
	Remote user interface (EN, DE, RU, DA)	EKRUCBL7	
	Simplified user interface	EKRUCBSB	
	Room thermostat (wired)	EKRTWA	
	Room thermostat (wireless)	EKRTR1	
	Heat meter (EHYHBH* only)	K.HEATMET	
Drain	Drain pan for reversible H/B	EKHYDP1	
Installation	Cover plate 35	EKHY093467	
	Installation jig	EKHYMNT1	
Sensor	External sensor	EKRTETS	
Valve	Valve kit for connection to 3rd party tank with built-in 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 60x500	EKFGP5461
Extension PP/GLV 60/100 x 1000mm	EKFGP4652
Extension PP/GLV 60/100 x 500mm	EKFGP4651
Extension PP/GLV 80/125 x 1000mm	EKFGP4802
Extension PP/GLV 80/125 x 500mm	EKFGP4801
Extension P BM-Air 80x500	EKFGW4001
Extension P BM-Air 80x1000	EKFGW4002
Extension P BM-Air 80x2000	EKFGW4004
Filling loop set	EKFL1AA
Flex 100-60 + Support Elbow	EKFGP6354
Flex 130-60 + Support Elbow	EKFGS0257
Flex Kit PP Dn.60-80	EKFGP1856
Flex Kit PP Dn.8	EKFGP2520
Flue Deflector 60 (UK Only)	EKFGP1295
Flue gas non-return flap	EKFGF1A
Gas conversion kit from G20 to G25	EKPS076227
Inspection Elbow Plus PP/ALU 80/125 90° EPDM	EKFGP4820
Meas. Tee with Inspection Panel PP/GLV 60/100	EKFGP4667
Plume Managment Kit 60 (UK Only)	EKFGP1294
PMK Elbow 60 45° (2 pcs) (UK Only)	EKFGP1285
PMK Elbow 60 90 (UK Only)	EKFGP1284
PMK Extension 60 L=1000 incl. breaket (UK Only)	EKFGP1286
Roof Terminal PP/GLV 60/100 AR460	EKFGP6837
Roof Terminal PP/GLV 80/125 AR300 Ral-9011	EKFGP6864
Spacer PP 80-100	EKFGP6333
Support Breaket Top Inox Dn.100	EKFGP6337
Support Breaket Top Inox Dn.130	EKFGP6353
Tee Flex 100 Boiler Connectionset 1	EKFGP6368
Tee Flex 130 Boiler Connectionset 1	EKFGP6215
Thermistor recirculator	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	EKFGP2977
Wall Terminal Kit PP/GLV 60/100	EKFGP2978
Wall Terminal Kit PP/GLV 60/100	EKFGP1292
Wall Terminal Kit PP/GLV 80/125	EKFGW6359
Wall Terminal Kit low profile PP/GLV 60/100 (UK only)	EKFGP1299
Weather Slate Flat Alu 60/100	EKFGP6940
Weather Slate Flat Alu 60/100 0°-15°	EKFGP1296
Weather Slate Flat Alu 80/125	EKFGW5333
Weather Slate Flat Alu 80/125 0°-15°	EKFGP1297
Weather Slate Steep Pb/GLV 60/100 18°-22°	EKFGS0518
Weather Slate Steep Pb/GLV 60/100 23°-27°	EKFGS0519
Weather Slate Steep Pb/GLV 60/100 43°-47°	EKFGS0523
Weather Slate Steep Pb/GLV 60/100 48°-52°	EKFGS0524
Weather Slate Steep Pb/GLV 60/100 53°-57°	EKFGS0525
Weather Slate Steep Pb/GLV 80/125 18°-22°	EKFGT6300
Weather Slate Steep Pb/GLV 80/125 23°-27°	EKFGT6301
Weather Slate Steep Pb/GLV 80/125 43°-47°	EKFGT6305
Weather Slate Steep Pb/GLV 80/125 48°-52°	EKFGT6306
Weather Slate Steep Pb/GLV 80/125 53°-57°	EKFGT6307
Weather Slate Steep PF 60/100 25°-45°	EKFGP7910
Weather Slate Steep PF 80/125 25°-45° Ral-9011	EKFGP7909

Flue gas connections









# Table of content

## boilers

<b>Gas condensing boilers</b>	<b>100</b>
Wall mounted gas condensing boiler	102
Floor standing gas condensing boiler	110
<b>A2 oil condensing boiler</b>	<b>114</b>



# Gas condensing boilers

## Why choose a gas condensing boiler

Daikin's gas condensing boilers are the best option for individual that plan to replace an existing boiler with a more energy efficient and cost-saving alternative. Both the GCU 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 ECH<sub>2</sub>O tank.

### ✓ Energy efficiency

#### Condensing technology

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

#### Condensing technology

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

With the combustion of 1 m<sup>3</sup> 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.

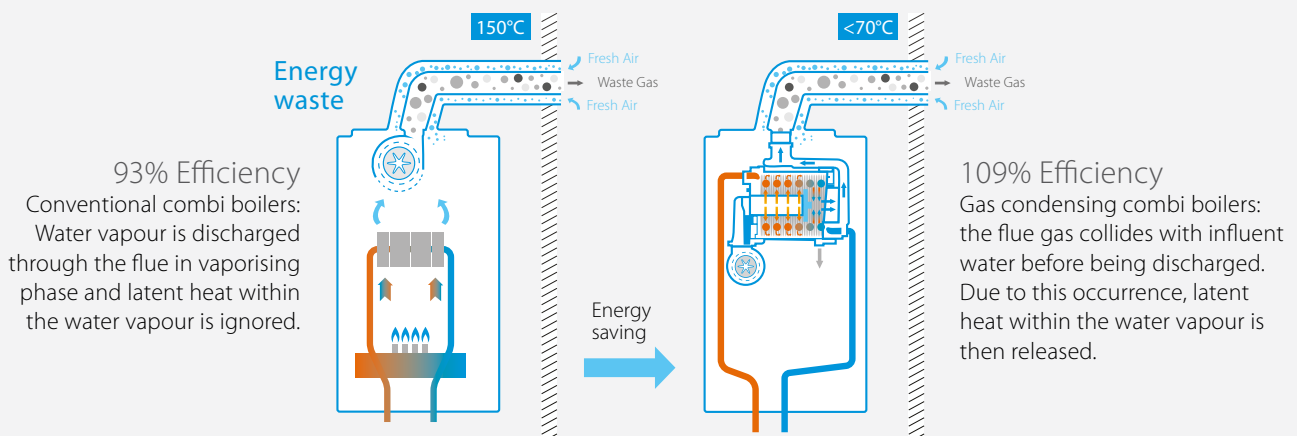
Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NO<sub>x</sub> and CO, to ensure high cost savings and environmentally-friendly operation.



## ✓ Reliability

### Easy installation and service

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



# D2 Gas condensing boiler

Supremely compact and controllable via app

## Why choose the Daikin gas condensing boiler

### Low weight

27 kg

### Most compact

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

### Connectivity/Cloud Service

Always in control, no matter where you are

### Easy installation and service

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

### Solar thermal connection

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

### Flexible in use

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

### Modulation 1:8

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

### Daikin eye

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

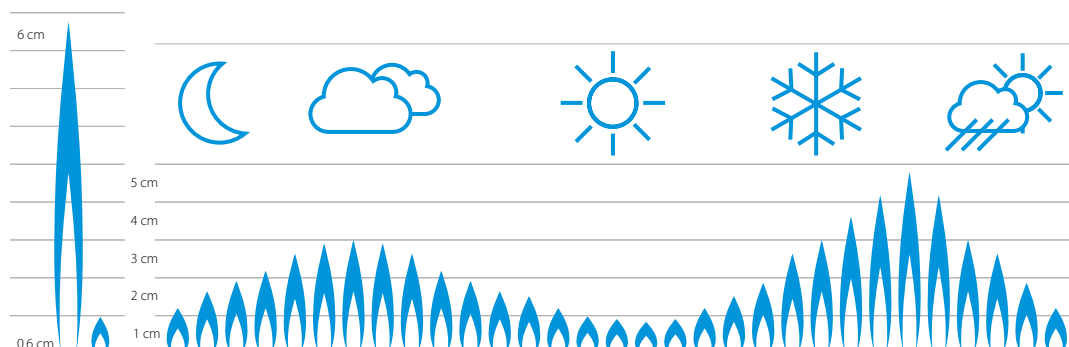
### Unique interface

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

## High modulation rate

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

occur during ignition. Modulation is also automatically provided by the electronic control.

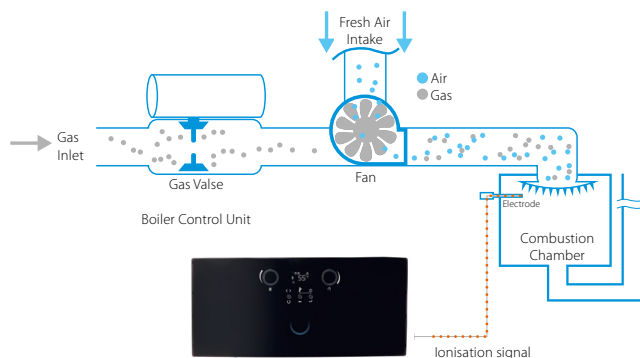






## Lambda Gx: automatic gas adaptation system

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



## Daikin Eye

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



### Blue:

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



### Red:

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

## Product features

### Flue Adapter 60/100

- › Factory mounted
- › Compatible with top adapters/elbows of different flue gas manufacturers
- › With measurement 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

The smallest Combi boiler

(12-18-24 kW)



reddot award 2018 winner



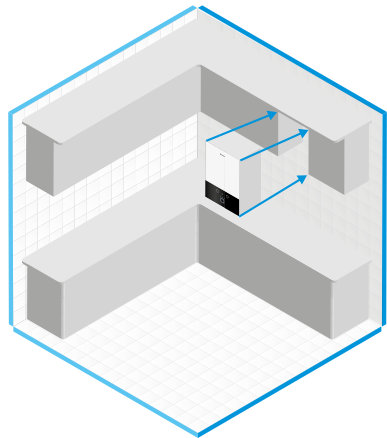
Lightweight Combi boiler

(28-35 kW)



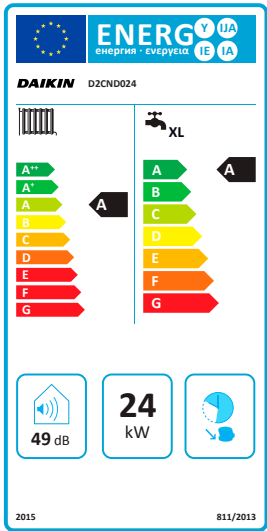
## Easy installation & maintenance

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



## High energy class

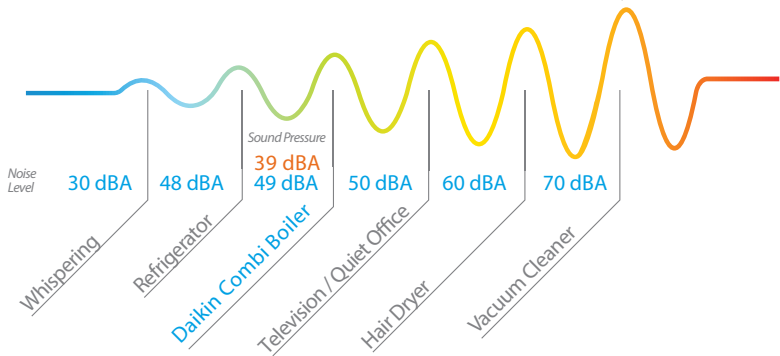
Energy Class A adheres to European ERP Standards



## 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



### Modulation

The device can drop down to 3 kW with a modulation ratio of 1:8. This ensures minimal energy is consumed during start/stop operations.



### Full condensation

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



### Comfort mode

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



### Electrical Protection

Safe combi boiler with a protection class of IP5D.



### Efficiency

Achieves up to 109% efficiency with full condensation.



### Frequency controlled pump

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



### Quiet

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



### Thermo regulation

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



### Compact size

Measuring only 0.06 m<sup>3</sup>, this slim, state-of-the-art design combines power with aesthetics.



### High energy class

Efficiency class according to EU Ecodesign Lot1. (A)



### Lambda Gx system

Superior combustion technology delivers unparalleled efficiency and energy savings.



### Premix combustion

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



### Lcd display

Eye-catching and user-friendly design.



### Double heat exchanger

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



### Easy maintenance

Details in design allows for easy maintenance.



### Online controller via app

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

# Gas condensing boiler

## Supremely compact gas condensing boiler













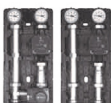
- › Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping
- › Easy to service: all parts are accessible by only removing the front panel
- › High heating efficiency up to 108%
- › High 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		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
	(net calorific value)											
	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 (net calorific value) Qnw	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	4.8/34
	Heat input (gross calorific value) Qnw	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	-				2.5	2.0	2.5	
	Temperature	Factory setting		°C	50							
	Operation range	Min/Max		°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								
	Consumption (G20)	Min/Max		m³/h	0.31/1.18	0.31/1.80	0.31/2.48	0.511/2.89	0.511/3.63	0.31/2.48	0.511/2.89	0.511/3.63
	Consumption (G25)	Min/Max		m³/h	0.36/1.38	0.36/2.09	0.36/2.89	0.59/3.32	0.59/4.19	0.36/2.89	0.59/3.32	0.59/4.19
Supply air	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
	Connection Concentric			mm	100							
Flue gas	Connection			mm	60							
	Concentric				1							
Space heating	General	ns (Seasonal space heating efficiency)		%	93							
Domestic hot water heating	General	Seasonal space heating eff. class			A							
		Declared load profile			-				XL			
		nwh (water heating efficiency)		%	-				85		83	
Casing	Colour Material	Water heating energy efficiency class			-				A			
					Titanium White (Ral9003)							
Dimensions	Unit	Height x Width x Depth	Casing	mm	Sheet metal			Powder painted galvanised steel plate 690x440x295		Sheet metal	Powder painted galvanised steel plate 690x440x295	
					590x400x256				590x400 x256			
Weight	Unit	Empty		kg	27			36		27	37	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230			1~/50/230		1~/50/230		
Electrical power consumption	Max.			W	86			92	112	86	92	112
	Standby			W	3.5			2.7		3.5	2.7	



# Options

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

# Gas condensing boiler

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



A





A

90°C



EKOMB-AH

Indoor unit				EHOB(G)	12A	18A	12AH	18AH	42AH
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	3.5/12.5	5.6/18.7	3.5/11.8	5.6/18.7	7.8/42.5
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW	3.9/13.9	6.2/20.8	3.9/13.1	6.2/20.8	7.8/42.5
	Output Pn at 80/60°C	Min/Nom		kW	-/12.2	-/17.8	3.4/11.5	5.4/17.8	-/40.9
	Output Pnc at 50/30°C	Min/Nom		kW		-/-	3.8/12.0	5.9/18.1	8.4/-
	Output at 40/30°C	Min		kW		-	3.8	6.0	-
	Water pressure (PMS)	Max		bar	3	-		3	
	Water temperature	Max		°C		-		90	
	Efficiency	Net calorific value		%		109			107
	Operation range	Min/Max		°C			30/90		
	Connection	Diameter		mm			15		
Gas	Consumption (G20)	Min/Max		m³/h	0.36/1.30	0.58/1.94	0.36/1.22	0.58/1.94	0.81/4.41
	Consumption (G25)	Min/Max		m³/h	0.42/1.50	0.67/2.25	0.42/1.42	0.67/2.25	0.94/5.10
	Consumption (G31)	Min/Max		m³/h	0.14/0.49	0.22/0.74	0.14/0.47	0.22/0.74	0.31/1.68
Supply air		Connection		mm			100		
Flue gas		Concentric					1		
Space heating		Connection		mm			60		
Casing	General	ηs (Seasonal space heating efficiency)		%	94	93	94	93	92
		Seasonal space heating eff. class					A		
Dimensions		Unit	Height/Width/Depth	Casing	mm				
Weight		Unit	Empty		kg				
Power supply		Phase/Frequency/Voltage			Hz/V				
Electrical power consumption		Max.		W		80			135
		Standby		W			2		

Indoor unit		EKOMB(G)			22AH	28AH	33AH	22A	28A	33A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	5.6/18.7	7.1/23.7	7.2/27.3	5.5/23.3	7.2/29.1	7.5/32.7
	Heat input Qn (gross calorific value)	Nom	Min/Max	kW	6.2/20.8	7.9/26.3	8.0/30.3	6.1/25.9	8.0/32.3	8.3/36.3
	Output Pn at 80/60°C	Min/Nom		kW	-/17.8	-/22.8	7.1/26.3	5.4/22.7	7.1/28.4	7.4/32.1
	Output Pnc at 50/30°C	Min/Nom		kW		-/-	7.8/27.1	5.9/23.8	7.7/31.1	8.2/35.0
	Output at 40/30°C	Min		kW		-	7.7	5.9	7.7	8.2
	Water pressure (PMS)	Max		bar	3		-		3	
	Water temperature	Max		°C		-			90	
	Efficiency	Net calorific value		%			107			109
	Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min/Max	kW	5.6/22.1	7.1/28.0	-/-	5.5/23.3	7.2/29.1
Gas	Heat input (gross calorific value) Qnw	Nom	Min/Max	kW	6.2/24.6	7.9/31.1	-/-	6.1/25.9	8.0/32.3	8.3/36.3
	Output	Min/Nom		kW		-/-		5.9/22.7	7.7/28.4	8.2/32.1
	Domestic hot water threshold			l/min	1.5		-	1.5		
	Water flow	Rate	Nom	l/min	10.0 (1) / 6.0(2)	12.5 (1) / 7.5(2)	-	10.0 (1) / 6.0(2)	12.5 (1) / 7.5(2)	15.0 (1) / 9.0(2)
	Temperature	Factory setting		°C	60					
	Operation range	Min/Max		°C	40/65					
	Connection	Diameter		mm	15		-	15		
	Consumption (G20)	Min/Max		m³/h	0.58/2.29	0.74/2.46	-/-	0.57/2.42	0.75/3.02	0.78/3.39
	Consumption (G25)	Min/Max		m³/h		-/-		0.66/2.80	0.86/3.50	0.80/3.93
Supply air	Consumption (G31)	Min/Max		m³/h	0.22/0.87		-/-	0.22/0.92	0.28/1.15	0.30/1.29
	Connection			mm	100		-	100		
	Concentric				60		-	60		
Flue gas	Connection			mm	60			60		
Space heating	General	ηs (Seasonal space heating efficiency)		%	93		A		94	
	General	Seasonal space heating eff. class								
		Declared load profile		L	XL		L	XL		
		ηwh (water heating efficiency)		84	87		84	87		
		Water heating energy efficiency class			A					
				White - RAL9010		White - RAL9010				
		Material		Precoated sheet metal		Precoated sheet metal				
Dimensions	Unit	Height x Width x Depth	Casing	mm	590x450x240	650x450x240	-x-x-	590x450x240	650x450x240	710x450x240
Weight	Unit	Empty		kg	30	33	-	30	33	36
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230					
Electrical power consumption	Max.			W	80					
	Standby			W	2					

(1) Setpoint 40°C (2) Setpoint 60°C

# 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
Controls	Rf-wlan converter	EKRFLAN1A	•	•	•	•	•	•	•	•
	Dongle set	EKDS1A	•	•	•	•	•	•	•	•
Installation	Cover plate 35	EKCP1A	•	•	•	•	•	•	•	•
	Solar water heater connection set	EKSH1A	•	•	•	•	•	•	•	•
Sensor	Outdoor sensor	EKOSK1A	•	•	•	•	•	•	•	•
Valve	Valve kit (IT, ES, CZ, GR, PL, PT)	EKVK4A	•	•	•	•	•	•	•	•
	Valve kit (DE)	EKVK5A						•	•	
	Valve kit (DE)	EKVK6A	•	•	•	•	•			
	Valve kit 3-way	EK3WV1A	•	•	•	•	•	•	•	•
B-pack	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJS1A	•	•				•	•	
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJM1A			•	•				
	B-pack for combi (IT, ES, CZ, GR, PL, PT)	EKFJL1A					•			•
	B-pack for combi (FR, BE)	EKFJS2A	•	•						
	B-pack for combi (FR, BE)	EKFJM2A			•	•				
	B-pack for combi (FR, BE)	EKFJL2A					•			•
	B-pack for combi (UK)	EKFJS3A	•	•						
	B-pack for combi (UK)	EKFJM3A			•	•				
	B-pack for combi (UK)	EKFJL3A					•			
	B-pack for combi (DE)	EKFJS4A						•	•	
	B-pack for combi (DE)	EKFJS6A	•	•						
	B-pack for combi (DE)	EKFJM6A			•	•				
	B-pack for combi (DE)	EKFJL6A					•			
Propane set		EKHY075787	•							
		EKPS075867				•	•			•
		EKPS075877	•							
		EKPS075917						•		
Conversion set		EKPS076197						•		
		EKPS076207	•						•	
		EKPS076217		•	•				•	
		EKPS076227		•			•			•
Flue gas	Flue gas non return flap (flue gas cascade)	EKFGF1A	•	•	•	•	•	•	•	•
	Horizontal straight flue terminal (low profile) (UK)	EKFGP1A	•		•		•			
Others	Concentric connection (Ø 80/125)	EKHY090717								
	Eccentric connection (Ø 80)	EKHY090707								
	Adaptor set concentric 60/100	EKAS1A	•	•	•	•	•			

# GCU compact

Combines modern gas condensing technology with a thermal store

## Why choose the Daikin GCU compact

The GCU compact 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

GCU compact 3xx: 595 x 615 x 1896 mm  
GCU compact 5xx: 790 x 790 x 1896 mm

### High efficiency

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

### Easy installation and service

### Lambda Gx

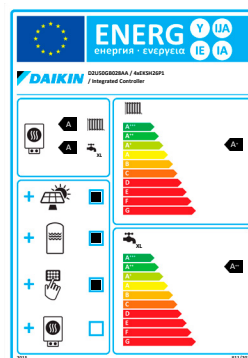
Fully electronic and accessible gas-air combination

### Energy efficiency

All GCU compact models reach the energy label A

## Benefits of the GCU compact

- › 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)



For example: D2U50GB028AA / 4xEKSH26P1 / Integrated controller





## GCU Technologies



### 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

# GCU compact

Combining modern gas condensing technology with a thermal store

- › 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 ECH<sub>2</sub>O 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



A




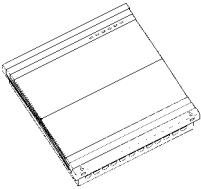










A

80°C



				GC	D2U30GC015A	D2U30GC020A	D2U50GC015A	D2U50GC020A	D2U50GC024A	D2U50GC028A
Central heating	Heat input Q <sub>n</sub> (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 <sub>n</sub> (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 <sub>n</sub> 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 <sub>n</sub> 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)	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)	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 Q <sub>n</sub>	Min/Nom		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
Piping connections	Temperature	Factory setting		°C						
	Operation range	Min/Max		°C						
	Cold in-Hot out			Inch						
Gas	Connection	Diameter		mm						
	Consumption (G20)	Min/Max		m <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /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			mm						
Flue gas	Connection			mm						
Water circuit	Piping connections			Inch						
Space heating	General	η <sub>s</sub> (Seasonal space heating efficiency)		%	91	92	91	92	92	92
		Seasonal space heating eff. class								
Domestic hot water heating	General	Declared load profile			L		XL		XL	
		η <sub>wh</sub> (water heating efficiency)		%	81	81	89	82	84	82
		Water heating energy efficiency class								
Casing	Colour									
	Material									
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	1,895x595x615		1,895x790x790		1,895x790x790	
Weight	Unit	Empty		kg	76		102		104	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/230			
Electrical power consumption	Max.			W	76	98	76	98	104	108
Drain-back solar	Standby			W			3			
	Piping connections	solar-flow		Inch			G 1" (female)			
				GB	D2U30GB015A	D2U30GB020A	D2U50GB015A	D2U50GB020A	D2U50GB024A	D2U50GB028A
Central heating	Heat input Q <sub>n</sub> (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 <sub>n</sub> (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 <sub>n</sub> 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 <sub>n</sub> 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)	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)	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 Q <sub>n</sub>	Min/Nom		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
Piping connections	Temperature	Factory setting		°C						
	Operation range	Min/Max		°C						
	Cold in-Hot out			Inch						
Gas	Connection	Diameter		mm						
	Consumption (G20)	Min/Max		m <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /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			mm						
Flue gas	Connection			mm						
Water circuit	Piping connections			Inch						
Space heating	General	η <sub>s</sub> (Seasonal space heating efficiency)		%	91	92	91	92	92	92
		Seasonal space heating eff. class								
Domestic hot water heating	General	Declared load profile			L		XL		XL	
		η <sub>wh</sub> (water heating efficiency)		%	81	81	89	82	84	82
		Water heating energy efficiency class								
Casing	Colour									
	Material									
Dimensions	Unit	HeightxWidthxDepth	Casing	mm	1,895x595x615		1,895x790x790		1,895x790x790	
Weight	Unit	Empty		kg	78		104		106	
Power supply	Phase/Frequency/Voltage			Hz/V			1~/50/230			
Electrical power consumption	Max.			W	76	98	76	98	104	108
Drain-back solar	Standby			W			3			
	Piping connections	solar-flow		Inch			G 1"			

# Gas condensing/solar combination, GCU compact

Regulation accessories		Type	Order No.
	<b>Room controller</b> 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
	<b>Mixer module</b> 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
	<b>Outdoor temperature sensor for RoCon convenience regulation</b> 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
	<b>Gateway</b> for coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP) .	RoCon G1	15 70 70 (Daikin brand)
	<b>Gateway</b> for coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP) .	RoCon G1	15 70 56 (Rotex brand)
	<b>Flue-gas kit GCU compact</b> Double-walled connection set of 2x45° elbows with connection extender from DN60 / 100 to DN80 / 125.	Set GCU1	15 50 79.17
	<b>Double-walled test adapter DN 60/100</b> Accessories if no standard flue gas connection (Set GCU 1) is used.	D6 PA	24 60 11
	<b>Single-walled test adapter DN 60</b> Accessories for room-air independant operation if no standard flue gas connection (Set GCU 1) is used.	E6 PA	24 60 12
	<b>Pump Group with mixer</b> 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	
	<b>Pump group without mixer</b> 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	
	<b>Fittings kit for mixer group MK1/MK2</b> 1" female thread x 1 1 / 2" flat-sealing.	VMK1	15 60 53
	<b>Convection brake</b> 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
	<b>Sludge and magnetite separator</b> 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.

# A2 oil condensing boiler

## Bringing oil heating into the 21st century



### Higher efficiency

**Daikin's oil condensing technology is a worthwhile investment**

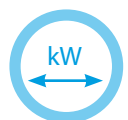
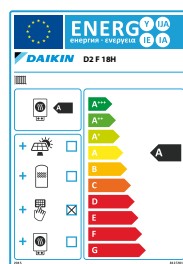
Choosing the right boiler for replacing your oil heating system is a long-lasting decision.. Over the years, the cost of fuel will largely exceed the boiler's initial purchase price. Therefore, this is where the A2 can help you making the biggest savings.

### Advanced oil heating system

The modern A2 oil boiler will fit seamlessly into your home. Its condensing technology minimizes emissions, is very easy to operate and converts fuel into available heat with virtually no losses. The higher efficiency reduces oil consumption and allows for installing smaller oil storage tanks, which are fitted with odour barriers.

### The A2 reaches the maximum efficiency labels

All Daikin products are tested and proven to meet criteria set by the EU Ecodesign Directive. We guarantee our individual products and packaged solutions offer maximum convenience, while upholding the highest safety standards.



### Best-in-class modulation range

#### A boiler with a wide modulation range

The heat demand of a building varies widely depending on weather conditions and utilisation patterns. The modulating A2 constantly adjusts its output in line with demand. This ensures optimum energy utilisation. It has a particularly large modulation range of 1:2,5. This can even be broadened to 1:64.

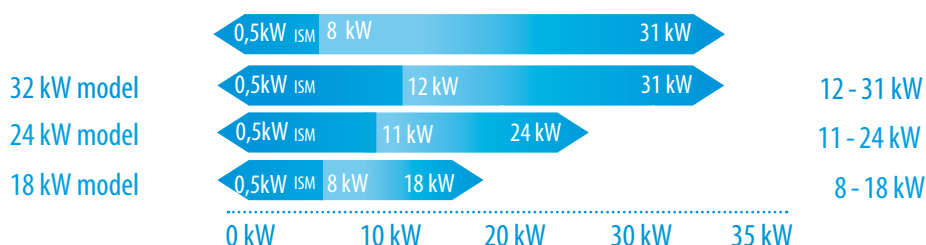
#### Go further with Intelligent Store Management



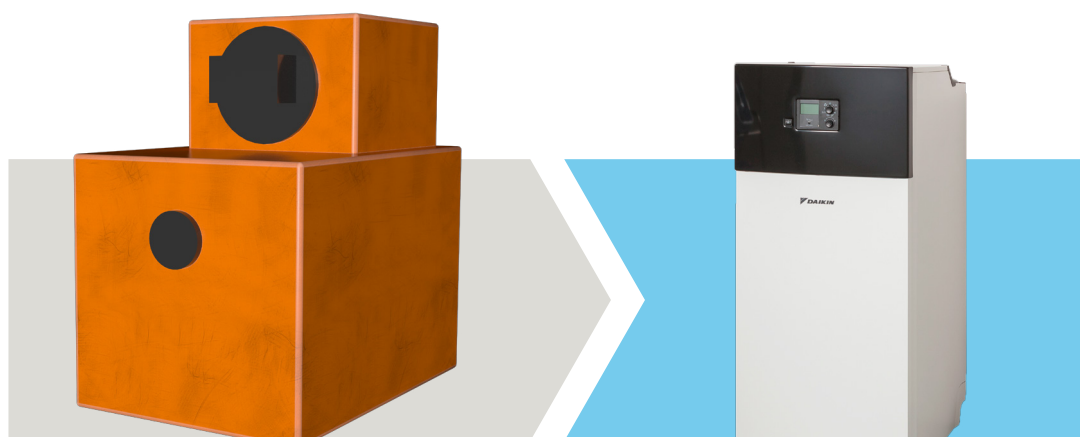
The A2 can deliver 0-100 percent output to meet demand and provide continuous heat distribution in combination with Daikin's thermal stores. The thermal store volume serves as an active buffer also for space heating. Further optimisation is possible with ISM: even the lowest heat requirements of 500 watts or more can be covered, while producing as much hot water as you need. Frequent on/off switches are avoided by optimising the oil condensing boiler's burner runtimes. Fewer burner starts mean much lower emissions of harmful substances and increased energy efficiency.

With this optimisation, the A2 is well able to meet the steadily increasing need for a constant and immediate supply of hot water – especially with the trend for ever more luxurious bathrooms and multiple shower units in our homes, but decreasing heating requirements as building insulation improves.

### Capacities Range







Fit for any  
replacement

The A2 is ideally suited to replace older boilers, thanks to the great flexibility it offers when integrated into existing systems, plus its low weight and compact dimensions.

## How you can benefit from the Daikin A2 oil condensing boiler



Outstanding efficiency

- › Energy saving condensing technology
- › Optimum heat transfer due to innovative flue gas turbulators in the boiler body



Space saving

- › Small installation area of 0.42 m<sup>2</sup>
- › Oil tanks designed to sit safely beside the boiler



Innovative technology

- › Next generation modulating burner (1:2.5)
- › ISM offers modulation of 1:64 from 0.5 to 32 kW and intelligent storage management
- › Intuitively operated electronic control unit
- › Ready for bio-oil (B10) and all commercially available fuel oils



Meets your needs


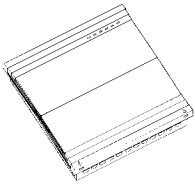



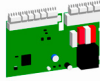







- › Ideal for replacing an existing oil boiler
- › Straightforward chimney refurbishment
- › Easy maintenance
- › Odour-proof flexible pipes prevent the smell of fuel oil
- › If used with a Daikin thermal store, possibility of direct combination with our solar thermal system or woodburning stove with back boiler



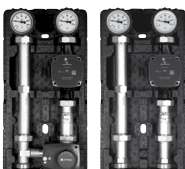







Oil condensing boiler



Indoor unit					D9HA2	9HA2032A	9HA2018A	9HA2024A
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max		kW	12.8 / 32.2	8.5 / 18.2	10.9 / 24.7
	Heat input Qn (gross calorific value)	Nom	Min/Max		kW	13.6 / 34.1	9.0 / 19.3	11.6 / 26.2
	Output Pn at 80/60°C	Min/Nom			kW	12.5 / 31.4	8.3 / 17.7	10.6 / 24.1
	Water pressure (PMS)	Max			bar	3		
	Water temperature	Max			°C	85		
Supply air	Connection				mm	125		
	Concentric					1		
Space heating	General	ηs (Seasonal space heating efficiency)			%	93	91	92
		Seasonal space heating eff. class				A		
Casing	Colour					White + Black		
	Material					Aluminium		
Dimensions	Unit	H x W x D	Casing		mm	1,360x606x754		
Weight	Unit	Empty			kg	111	97	102
Power supply	Phase/Frequency/Voltage				Hz/V	1~/50/230		



Accessories	Order No.
 <p><b>Room controller RoCon U1</b> 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</p>	15 70 34
 <p><b>Mixer module RoCon M1</b> 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</p>	15 70 68
 <p><b>Outdoor temperature sensor RoCon OT1 for RoCon convenience regulation</b> in conjunction with the mixer controller RoCon M1 when it is used as a zone or as a stand-alone solution.</p>	15 60 70
 <p><b>Gateway RoCon G1</b> for coupling the controller to the Internet for remote control the heat source via Mobile Phones (APP)</p>	15 70 56
 <p><b>Storage tank sensor for RoCon DT1 comfort control</b> Suitable for all A2 oil condensing boilers</p>	15 60 68
 <p><b>Mixing PCB</b> Can be placed inside the boiler PCB. Same functions as external mixing module but without plastic cover (PCB only).</p>	DRMIXINGPCBA
 <p><b>Flue gas Kit</b> To connect flue gas outlet on the bottom side of the boiler</p>	DRFLUEGAKITA
 <p><b>Valve Kit</b> Content: 3WV with internal piping/connection valves to install inside housing To connect DHW storage tank</p>	DRVALVEKITA2A
 <p><b>Smart start kit</b> Content: 2 mixing valves with internal piping/connection valves, flow sensor, additional temperature sensor. Kit can be installed inside housing. In combination with storage tank, this valve kit provides following functions: Heating support, smartstart, electronical bypass, flow control, DHW/CH, thermal energy metering.</p>	DRSMATAKITA
 <p><b>Internal expansion vessel</b> Content: 12 L expansion vessel including piping and holder to install kit inside casing</p>	DREXPVES12A
 <p><b>Sludge and magnetite separator SAS1</b> Compact sludge separator with drain cock and thermal insulation. Input G1-IG (union nut), outlet G1-IG.</p>	15 60 21
 <p><b>Water purification system Bambini</b> With mounting bracket and backflow preventer. For demineralisation of tap water. Fields of application are heating water, cooling water, battery water and rinsing technology. Operating pressure 2-8.6 bar, temperature range 4-30°C. For approx. 350L system volume. Not suitable for drinking water purification.</p>	15 30 47
<p><b>Replacement cartridge EK Bambini</b> Usable for water purification system Bambini</p>	15 30 48
 <p><b>Cleaning brush</b></p>	DRCLEANBRUSA

	<b>Condensate box</b> Not needed in all cases. Depends on local regulation and used oil type. Based on that free decision who will use. Option, but will fit inside the unit	DRCONDENBOXA	
	<b>Material refill: Granulate</b>	DRCONDENREFA	
	<b>Oil-bleeder TOP 2</b> with integrated filter (multiple filter) and block valve. Working overpressure max 0,7 bar, filter 20-35 µm, return flow max. 120 L/h.	15 60 79	
	<b>Pump group</b> For a mixed and unmixed heating circuit. Pre-assembled, leakage tested and thermally insulated assembly group. Incl. temperature indicator and arrangeable gravity brake. With Grundfoss pump UPM 3 hybrid 25 - 70/80. Pin G1, without PWM-cable.  <b>Pump group with mixer (DRMPUMPGURPAA)</b> <b>Pump group without mixer (DRUPUMPGURPAA)</b>	15 60 75 15 60 77	
	<b>Screwing set for the pump group</b> 1 " IG x 1 1/2 " flat sealing	15 60 53	
	<b>Heating circuit distributor 2-fold with integrated hydraulic diverter</b> A distributor which combines the function of a hydraulic diverter and a distributor. Applied in heating and air-conditioning systems, it enables the regulation of different lines. Separate lateral connections, incl. wall bracket and performed sound insulation. Combinable with pump group 15 60 75 or 15 60 77	15 60 78	
	<b>Hydraulic separator HW2500</b> Low loss header HW2500 with performed insulation and drain valve, for vertical installation, input/output G1 IG (DN 25), with union nut, flow-rate up to 2,500L. Function: - Hydraulic separation - Ventilation - Sludge separation - Detachment of magnetic particles	15 60 25	
	<b>Sludge and magnetite separator SAS2</b> Compact sludge separator with drain cock and thermal insulation. Input G1-IG.	15 60 23	
	<b>Hydraulic diverter HWC - DN 125 for up to 3 heat generators</b> Consisting of DN 125 round pipe sub-divided into four zones (using perforated separator discs, length approx. 1550mm), equipped with 8 x heating circuit connections 1" male thread, and a 1 x 1/2" sleeve and standing foot. Max. permissible operating pressure: 6 bar, max. permissible temperature: 110 °C.	17 29 00	
	<b>Thermal insulation WHWC for hydraulic diverter</b> Thermal insulation in accordance with EnEV, consisting of 60 mm PUR foam in a galvanised sheet steel casing.	17 29 01	
	<b>VA-Oil feeding line</b> PEX-AL compound pipe as oil supply line approved by the building supervision authorities in the DIBT test. Test mark of the building supervision authority: Z-40.23-331. Thick-walled PEX inner piper with butt-welded aluminium covering and silver-grey PE-external layer. Due to the aluminium covering 100% diffusion tightness. Neutral to heating oil, prevents degradation in the heating oil. Type of delivery: Ring coil packaged in box.		
	<b>VA Oil pipe, Ø 12 x 3</b>	60 m	17 06 31
	<b>Screw connection VA-Oil</b> To connect the oil feed pipe VA-oil to the extraction armature and to the oil filter. Clamping ring screwed fitting made of brass or parts in contact with oil made of stainless steel. Suitable for VA-Oil pipe Ø 12 x 3, connecting thread 3 / 8" male thread. Test mark of the building supervision authority: Z-40.23-331		
	<b>Screw connection VA-Oil</b>	10 pc.	17 80 13
	<b>Connect VA-Oil</b> 10 m PEX-AL compound pipe as an oil-conveying line with two screwed connection fittings 12 x 3 - 3 / 8" male thread	10 m	17 06 32







# Thermal stores and tanks

## Hot water heating installation solutions



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

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



### Domestic hot water tanks

#### Stainless steel tanks

##### Comfort

- › EKHTS-AC: available in 200 and 260l 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 ECH<sub>2</sub>O thermal store range

### ECH<sub>2</sub>O thermal store: additional hot water comfort

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

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

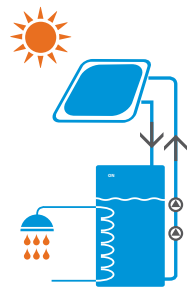
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

### Efficiency

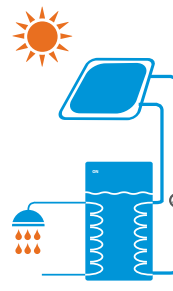
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

### Reliability

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



Drain-back solar system



Pressurised solar system

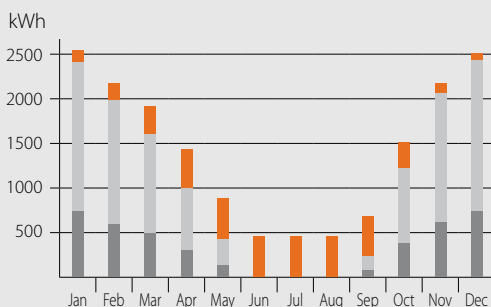
### Pressureless (drain-back) solar system

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

### Pressurised solar system

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

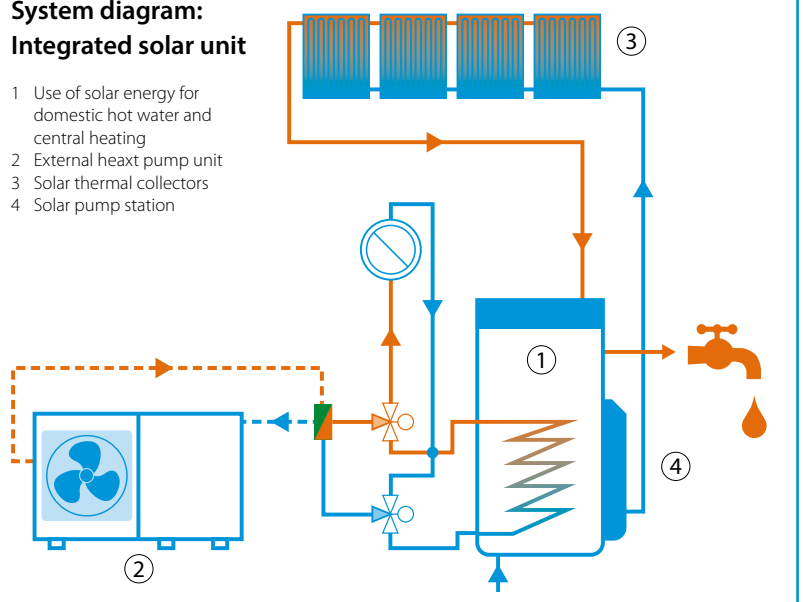
### Monthly energy consumption of an average detached house



- 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




# Thermal store

## Plastic domestic hot water tank with solar support

- › The thermal store EKHWP\* is designed to work with Daikin Altherma heat pumps
- › Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- › Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- › Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- › Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options
- › Available in 300 and 500 liters



Accessory				EKHWP	300B	500B	300PB	500PB
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	1,650	1,660	1,650	1,660	
Weight	Unit	Empty	kg	58	82	58	89	
 Tank	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	294	477	294	477
	Heat exchanger	Domestic hot water	Quantity		1			
Tube material			Stainless steel (DIN 1.4404)					
Face area			m²	5,600	5,800	5,600	5,900	
Internal coil volume			l	27.1	28.1	27.1	28.1	
Operating pressure			bar	6				
Average specific thermal output			W/K	2,790	2,825	2,790	2,825	
Charging			Quantity		1			
		Tube material		Stainless steel (DIN 1.4404)				
		Face area	m²	3	4	3	4	
		Internal coil volume	l	13	18	13	18	
		Operating pressure		bar	3			
		Average specific thermal output	W/K	1,300	1,800	1,300	1,800	
		Pressurised solar	Average specific thermal output	W/K	-		390.00	840.00
Auxiliary solar heating		Tube material		-		Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)
		Face area	m²	-		1	-	1
		Internal coil volume	l	-		4	-	4
		Operating pressure	bar	-		3	-	3
	Average specific thermal output	W/K	-		280	-	280	




# Domestic hot water tank

## Plastic domestic hot water tank with solar support

- › The thermal store EKHWC\* is designed to work with a gas/oil boiler
- › The thermal store EKHWD\* is designed to work with boilers as well as with Daikin Altherma High Temperature
- › Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- › Optimal domestic hot water performance: the low temperature evolution enables high tapping performance
- › Fit for the future: possibility to integrate with renewable solar energy and other heat sources, e.g. fireplace
- › Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options
- › Available in 300 or 500 liters



Accessory				EKHWDH 500B		EKHWDH 500B		EKHWCH 300B		EKHWCH 300PB		EKHWC 500B		EKHWCH 500B		EKHWCH 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		°C	85																	
	Insulation	Heat loss	kWh/24h	1.7		1.5		1.7													
	Energy efficiency class		B																		
	Standing heat loss		W	72		64		72													
	Storage volume		l	477		294		477													
Heat exchanger	Domestic hot water	Quantity	1																		
		Tube material	Stainless steel (DIN 1.4404)																		
		Face area	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																		
		Tube material	Stainless steel (DIN 1.4404)																		
		Face area	m²	2		-		Stainless steel (DIN 1.4404)													
		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	-																		
		Face area	m²	-																	
		Internal coil volume	l	-																	
		Operating pressure	bar	-																	
		Average specific thermal output	W/K	-																	

# Domestic hot water tank

## Stainless steel domestic hot water tank

- › EKHTS-AC: available in 200 and 260l 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



Accessory		EKHTS		200AC		260AC	
Casing	Colour			Metallic grey			
	Material			Galvanised steel (precoated sheet metal)			
Dimensions	Unit	Height	Integrated on indoor unit	mm	2,010		2,285
		Width		mm		600	
		Depth		mm		695	
		Height		mm	1,470		1,745
Weight	Unit	Empty		kg	70		78
	Tank	Water volume		l	200		260
Tank	Material			Stainless steel (EN 1.4521)			
	Maximum water temperature			°C		75	
	Insulation Heat loss			kWh/24h		12.0	
	Energy efficiency class					B	
	Standing heat loss			W		50	
	Storage volume			l		200	
	Heat exchanger					1	
	Tube material			Duplex steel (EN 1.4162)			
Heat exchanger	Face area			m <sup>2</sup>		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
	Unit	Empty	kg	37	45	59	45	59
Weight	Tank	Water volume	l	150	200	285	200	285
	Material			Stainless steel (DIN 1.4521)				
Tank	Maximum water temperature			°C		85		
	Insulation Heat loss			kWh/24h		1.55		
	Energy efficiency class					C		
	Standing heat loss			W		65		
	Storage volume			l		150		
	Heat exchanger					1		
	Tube material			Duplex steel LDX 2101				
	Capacity			kW		3		
Booster heater	Phase/Frequency/Voltage			Hz/V		1~/50/230		
Power supply						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
	Unit	Empty		kg	45	50	53	58
Weight	Tank	Water volume		l	145	174	192	242
	Material			Stainless steel (EN 1.4521)				
Tank	Maximum water temperature			°C		75		
	Insulation Heat loss			kWh/24h		1.1		
	Energy efficiency class					B		
	Standing heat loss			W		45		
	Storage volume			l		145		
	Heat exchanger					1		
	Domestic hot water					1		
	Tube material			Stainless steel (EN 1.4521)				
Heat exchanger	Face area			m <sup>2</sup>		1.050		
	Internal coil volume			l		4.9		
Heat exchanger	Operating pressure			bar		10		
	Capacity			kW		3		
Booster heater	Phase/Frequency/Voltage			Hz/V		1~/50/230		
Power supply								







# Solar

## maximising renewable energy

## Why choose a Daikin solar panel

**ECH<sub>2</sub>O**

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

### ✓ Comfort

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

### ✓ Energy efficiency

**ECH<sub>2</sub>O thermal store range:**  
Hot water savings with solar energy

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

### ✓ Reliability

#### Keymark Certificate

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



011-751016 F





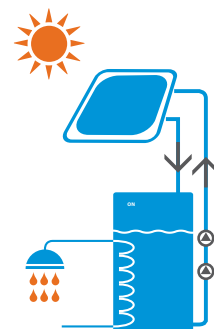
## The Drain-Back solar system

### ✓ How is it working?

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

### ✓ Advantages

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



## The pressurised solar system

### ✓ How is it working?

- › The heat-carrying liquid is mixed with glycol to avoid freezing in the solar collectors system
- › Whenever the solar collectors reach an useful temperature level, the system provides a continuous supply of energy
- › The energy from the collectors is returned to the thermal store thanks to the coil.

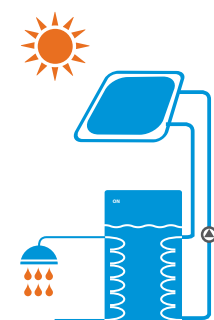
### ✓ Advantages

#### **Monovalent**

- › The solar system is used as first heating source and can be coupled with a wall mounted boiler. The cold water is first pre-heated in the thermal store and the boiler can provide additional heat instantaneously if needed.

#### **Bivalent**

- › The solar system integrates a backup heater. The domestic hot water is directly produced in the thermal store. The additional heater ensures the back-up in case of low sunshine.



## Material list for standard solar panel systems for hot water preparation and heating support EKS21P

Solar panel  
EKS21P

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	EKS21P	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 <sup>DB+P</sup> (2 roof hooks per kit)	FIX-ADDP	16 20 85	4 <sup>2)</sup>	0	6 <sup>2)</sup>	0	8 <sup>2)</sup>	0	10 <sup>2)</sup>	0
In-roof installation package, basic storage for two solar panel	IB EKS21P	16 20 17	0	1	0	1	0	1	0	1
In-roof installation package, additional storage for central solar panel	IE EKS21P	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	EKS RPS4A	1	1
Support for connecting pipe solar panel	TS	16 42 45	1	1
Connection pipe solar panel	CON 15	16 47 32	1	1
Roof penetration pack solar panel on-roof	EKSRCAP EKSRCRP	EKSRCAP anthracite EKSRCRP red	1	0
Installation accessories, solar panel in-roof	RCIP	16 20 37-RTX	0	1

## Nominal volume, complete system

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

Material list solar panels with pressurised system <sup>1)</sup>

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	EKS RDS2A	EKS RDS2A	1	1	1
Solar panel pressurised solar line DN16 15m	CON 15P16	16 20 73	1	1	0
Solar panel pressurised solar connection kit DN16	CON CP16	16 20 75	1	1	0
Solar panel pressurised solar line DN20 15m	CON 15P20	16 20 74	0	0	1
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	0	1
Solar panel expansion vessel 12l *	MAG S12	16 20 70	1	0	0
Solar panel expansion vessel 25l *	MAG S 25	16 20 50	0	1	0
Solar panel expansion vessel 35l *	MAG S 35	16 20 51	0	0	1
Installation material solar panel with pressure system <sup>1)</sup>	RCP	EKS RCP	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 <sup>(DB+P)</sup> (2 roof hooks per kit)	FIX-ADDP	16 20 85	4 <sup>2)</sup>	0	0	6 <sup>2)</sup>	0	0	8 <sup>2)</sup>	0	0	10 <sup>2)</sup>	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	EKS26P EKS26P	EKS26P Anthracite EKS26P 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 <sup>1)</sup>

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	EKS26P	EKS26P	1	1	1	Number of solar panels	2	3	4	5
Pressure station solar panel	EKS26P	EKS26P	1	1	1	Connecting line 15m	DN 16	DN 16	DN 20	DN 20
Solar panel pressurised solar line DN16 15m	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 15m	CON 15P20	16 20 74	0	0	1					
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	0	1					
Solar panel expansion vessel 12l *	MAG S12	16 20 70	1	0	0					
Solar panel expansion vessel 25l *	MAG S 25	16 20 50	0	1	0					
Solar panel expansion vessel 35l *	MAG S 35	16 20 51	0	0	1					
Installation material solar panel with pressure system <sup>1)</sup>	RCP	EKS26P	1	1	1					

## Solar panel - Overview EKSH26P - standard horizontal model

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

#### Solar panel H26 P



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



#### Nominal volume, complete system

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

### Material list solar panels with pressurised system <sup>1)</sup>



#### 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 15m	CON 15P16	16 20 73	1	0
Solar panel pressurised solar connection kit DN16	CON CP16	16 20 75	1	0
Solar panel pressurised solar line DN20 15m	CON 15P20	16 20 74	0	1
Solar panel pressurised solar connection kit DN20	CON CP20	16 20 76	0	1
Solar panel expansion vessel 12l *	MAG S12	16 20 70	0	0
Solar panel expansion vessel 25l *	MAG S 25	16 20 50	1	0
Solar panel expansion vessel 35l *	MAG S 35	16 20 51	0	1
Installation material solar panel with pressure system <sup>1)</sup>	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



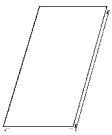
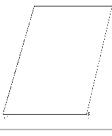

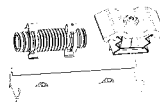
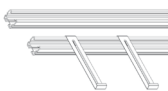
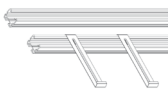

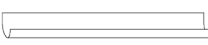
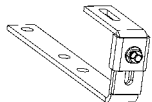
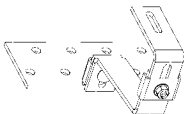
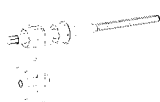
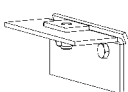
Total number of storage tanks Article	Type	Order No.	2 Quantity	3 Quantity
Solar panel storage tank extension kit	CON SX	16 01 20	1	1
Solar panel storage tank extension kit 2	CON SXE	16 01 21	0	1

# 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/m<sup>2</sup> per year (location: Würzburg, Germany). Suitable for drain-back and pressurised systems.

Article		Type	Order No.
	<b>High-efficiency flat solar panel EKS21P</b> (2,000 x 1,006 x 85mm), solar panel area 1.79m <sup>2</sup> , Weight 35kg, water content 1.3l. Max. 6 bar.	EKS21P	EKS21P
	<b>High-efficiency flat solar panel EKS26P</b> (2,000 x 1,300 x 85mm), solar panel area 2.35m <sup>2</sup> , Weight 42kg, water content 1.7l. Max. 6 bar.	EKS26P	EKS26P
	<b>High-efficiency flat solar panel EKSH26P</b> (1,300 x 2,000 x 85mm), solar panel area 2.35m <sup>2</sup> , Weight 42kg, water content 2.1l. Max. 6 bar.	EKSH26P	EKSH26P
	<b>Solar panel connection</b> Installation profile connector, expansion joints and double clamping blocks.	FIX-VBP	16 20 16-RTX
	<b>Installation profile rail for EKS21P</b> Consisting of installation profile rails and solar panel securing clips.	FIX MP 100	16 20 66
	<b>Installation profile rail for EKS26P</b> Consisting of installation profile rails and solar panel securing clips.	FIX MP 130	16 20 67
	<b>Installation profile rail for EKSH26P</b> Consisting of installation profile rails and solar panel securing clips.	FIX MP 200	16 20 68
	<b>Support for connecting pipe solar panel</b> Support troughs (5 in number, length, in each case, 1.3m) for support of the solar panel plastic connection lines in Drain-Back.	TS	16 42 45
	<b>On-roof installation pack slate</b> 4 roof hooks for flat roofing, e.g. slate, for one solar panel.	FIX ADS	16 47 23
	<b>On-roof installation pack MULTI</b> 2 height-adjustable roof hooks for drain-back and pressure system, including mounting materials.	FIX-ADDP	16 20 85
	<b>Roof holder for corrugated covering</b> 4 holders including fixing material for one solar panel.	FIX-WD	16 47 03-RTX
	<b>Roof holder for welted sheet metal covering</b> 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.
	<b>Basic in-roof assembly package EKS21P</b> Basic flashing for two solar panels, duct set including installation material. Minimum roof gradient 15°.	IB V21P	16 20 17
	<b>Extension kit in-roof mounting EKS21P</b> Additional package for an additional solar panel, duct set including installation material. Minimum roof gradient 15°.	IE V21P	16 20 18
	<b>Basic in-roof mounting pack EKS26P</b> Basic flashing for two solar panels, duct set including installation material. Minimum roof gradient 15°.	IB V26P	16 20 19
	<b>Expansion in-roof mounting pack EKS26P</b> Additional package for an additional solar panel, duct set including installation material. Minimum roof gradient 15°.	IE V26P	16 20 20
	<b>In-roof covering slate supplementary pack</b> 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
	<b>Basic pack flat-roof frame for mounting of two EKS26P solar panels on flat roofs</b> 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
	<b>Extension pack flat-roof frame for one additional EKS26P solar panel</b> Extension for FB V26P.	FE V26P	16 20 59
	<b>Basic pack flat-roof frame for mounting of one EKSH26P collector on flat roofs</b> 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
	<b>Extension pack flat-roof frame for one additional EKSH26P solar panel</b> Extension for FB H26P.	FE H26P	16 20 61
	<b>Disassembly tools ducts drain-back system</b>	FIX LP	16 20 29-RTX



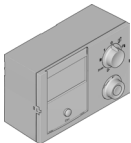
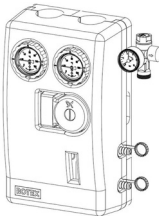
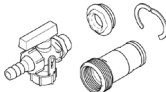
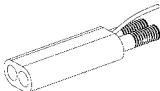


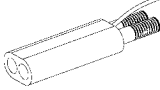


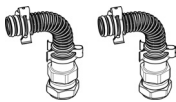
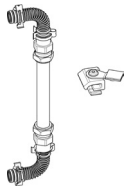
Drain-back system



Pressurised system

# Solar panel - pressurised system

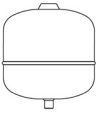
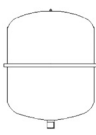
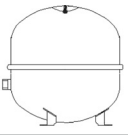



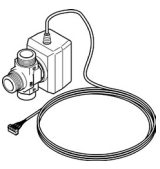


Article		Type	Order No.
	<b>Controller</b> Temperature-difference regulator for the solar panel with pressure system. Regulator with graphic display for representation of hydraulic schematics and yield balances, for example. Including return flow and storage tank temperature sensor and housing for wall mounting.	EKSDSR1A	EKSDSR1A
	<b>Pressure station</b> Consists of: Pipe connection ø 22mm including pipe compression fittings and support sleeves (5x), flow measurement unit with 2 x KFE cock, integrated air separator, ball-cocks with integrated back-flow prevention, Grundfos Solar 25-65 pump, safety group with pressure gauge, including insulation and installation accessories.	EKSRS2A	EKSRS2A
	<b>Fill and drain connection</b> For RPS3 and tanks from 2013 onwards, for easy filling and emptying through the fill and drain valve.	KFE BA	16 52 15
	<b>Solar panel pressurised solar line DN 16</b> 15m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 16. For systems of up to 3 solar panels and a line length of up to 25m. Without connection fittings.	CON 15P16	16 20 73
	<b>Solar panel pressurised solar connection kit DN 16</b> All necessary fittings for connecting the pressurised solar line DN 16. Required together with CON 15P16.	CON CP16	16 20 75
	<b>Solar panel pressurised solar connection kit DN 16</b> Fittings for connecting two pressurised solar lines DN 16.	CON XP16	16 20 71
	<b>Solar panel pressurised solar line DN 20</b> 15m thermally-insulated stainless steel corrugated pipe line for solar panel pressurised systems with inserted sensor line nominal size DN 20. For systems up to 5 solar panels and a line length of up to 25m. Without connection fittings.	CON 15P20	16 20 74
	<b>Pressurised solar connection kit DN 20</b> All necessary fittings for connecting the pressurised solar line DN 20. Always required together with CON 15P20.	CON CP20	16 20 76
	<b>Solar panel pressurised solar connection kit DN 20</b> Fittings for connecting the pressurised solar line DN 20.	CON P20	16 20 72
	<b>Installation material solar panel pressurised system</b> Connection fittings for pressurised systems and solar panel installation material, consisting of installation material for solar panel and connection pipe, 2m UV-proof thermal insulation for the outer area, connection fittings and panel temperature sensor. The roof penetration must be provided to the customer.	RCP	EKSRC
	<b>Solar panel row connection for the solar panel with pressure system</b> Connection kit for connecting two rows of solar panels in parallel. Consisting of solar panel installation material, equipotential bonding terminals, end caps, connection elbows and 1m thermally-insulated piping.	CON LCP	16 20 45



# Solar panel - pressurised system



Article		Type	Order No.
	<b>Expansion vessel 12l with connection block</b> For solar panels with pressure systems of max. 2 x EKS21P - solar panels.	MAG S12	16 20 70
	<b>Expansion vessel 25l with connection block</b> For solar panels with pressure systems of max. 3 solar panels.	MAG S 25	16 20 50
	<b>Expansion vessel 35l with connection block</b> For solar panels with pressure systems of max. 5 solar panels.	MAG S 35	16 20 51-RTX
	<b>GLYCOL CORACON SOL 5F</b> 20l can of pre-mixed solar fluid, functional range up to -28°C.	CORACON SOL 5F	16 20 52-RTX
	<b>GLYCOL CORACON SOL 5</b> 1l of solar fluid concentrate for extension of the frost range. With 20l of solar fluid with 1 l additive, the use range extends down to -33°C. For 20l of solar fluid with 2x 1l of additive, the functional range is extended to -38°C.	CORACON SOL 5	16 20 53
	<b>Circulation lance</b> 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
	<b>Thermostatic mixer as scalding protector</b> Thermal safety device for the domestic water pipe. Setting range 35-60°C.	VTA32	15 60 15
	<b>Screw connection kit 1"</b> For connection of the scald protection VTA32.		15 60 16
	<b>Thermostatic regulator 230V</b> With capillary tube temperature sensor, setting range 35-85°C.	SCS-TR	16 41 30
	<b>3-way switching valve 1" male</b> With motor drive 230V, switchover time 6 sec.	3 W-UV	15 60 34



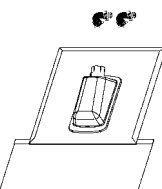
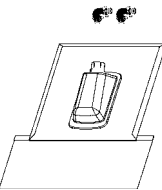
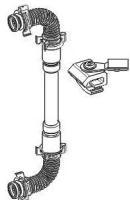
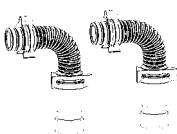
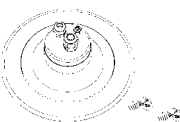
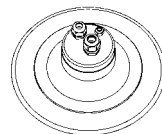

# Solar panels - drain-back system



Article		Type	Order No.
	<b>EKS RPS4 regulation and pump unit</b> Ready to plug in unit (230V), with digital differential temperature regulation, return and storage tank temperature sensors, high-efficiency circulation pump.  <b>INFO:</b> 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.	EKS RPS4	EKS RPS4A
	<b>Fill and tap connection solar panel with drain-back system</b> For easy filling of solar panels with drain-back system from 2013 onwards through the solar flow connector.	KFE DB BA	16 52 16
	<b>Burner blocking contact connection cable</b> For RPS2, RPS3, RPS3 M, RPS3 25M.	BSKK	16 41 10-RTX
	<b>Solar panel FlowGuard solar flow regulator</b> with solar flow indicator 2-16l/min.	FLG	16 41 02-RTX
	<b>Connection tube solar panel</b> Ready to connect connection line 15m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 15	16 47 32
	<b>Connection tube solar panel</b> Ready to connect connection line 20m between solar panel and pump station, consisting of thermally-insulated flow and return line with integrated sensor cable.	CON 20	16 47 33
	<b>Solar panel solar flow sensor 100</b> Sensor for expanding RPS3 25M control system, enables heat yield metering in large installations. Measuring range up to 100l/min.	FLS 100	16 41 03-RTX
	<b>Extension</b> 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 32



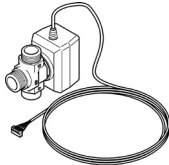
# Solar panels - drain-back system



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

# Solar panels - drain-back system



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



# Solar collector

## Thermal solar collector for hot water production

- › Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- › Horizontal solar collector for domestic hot water production
- › Vertical solar collector for domestic hot water production
- › High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- › Easy to install on roof tiles
- › Can be used for drain-back and pressurised applications



Accessory				EKSVP21P	EKSVP26P	EKSH26P
Mounting				Vertical		Horizontal
Dimensions	Unit	HeightxWidthxDepth	mm	2000x1006x85	2000x1300x85	1300x2000x85
Weight	Unit		kg	33	42	
Volume			l	1.3	1.7	2.1
Surface	Outer		m <sup>2</sup>	2.01	2.60	
	Aperture		m <sup>2</sup>	1.800	2.360	
	Absorber		m <sup>2</sup>	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 <sub>col</sub> )			61		
	Zero loss collector efficiency η <sub>0</sub>			0.781	0.784	
	Heat loss coefficient a <sub>1</sub>			4.240	4.250	
	Temperature dependence of the heat loss coefficient a <sub>2</sub>			0.006	0.007	
	Thermal capacity			4.9	6.5	
Auxiliary	Solpump			-		
	Annual auxiliary electricity consumption Q <sub>aux</sub>			-		
	Solstandby			-		

## EKSRRPS4A/EKSRRDS2A

# Pump station

- › Save energy and reduce CO<sub>2</sub> 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				EKSRRPS	4A	2A
Mounting					On side of tank	On wall
Dimensions	Unit	HeightxWidthxDepth	mm		815x142x230	410x314x154
Weight	Unit		kg		6	
Operation range	Ambient temperature	Min.~Max.	°C		5~40	~40
Operating pressure	Max.		bar		-	6
Stand still temperature	Max.		°C		85	120
Control					Digital temperature difference controller with plain text display	
Power consumption				W	2	5
Sensor	Solar panel temperature sensor				Pt1000	
	Storage tank sensor				PTC	-
	Return flow sensor				PTC	-
	Feed temperature and flow sensor				Voltage signal (3.5V DC)	-
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/230	-/50/230
Power supply intake					Indoor unit	
Auxiliary	Solpump			W	33	23
	Annual auxiliary electricity consumption Q <sub>aux</sub>			kWh	78	89
	Solstandby			W	2.00	5.00

# Always in control

## Daikin Online Controller

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

### Monitor

- › The status of your heating system
- › Your energy consumption graphs\*

### Schedule

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

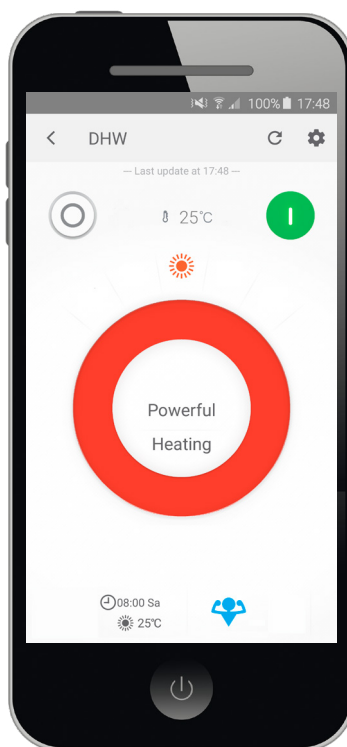
### Control \*\*

- › The **operation mode** and set temperature
- › Remotely control your system and domestic hot water

\*Starting with ERGA-D

\*\*Control via the app

- › Room thermostat control for space heating and domestic hot water
- › Leaving water temperature control for domestic hot water
- › External control for domestic hot water



## Daikin Online Heating Control

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

### Main features

- › 'Daikin Eye' (intuitive setting)
- › Tank temperature monitoring
- › Equipped with GDPR (data protection)
- › Remote firmware update of LAN Adapter
- › Control over multiple unit locations

### Applicable Daikin units

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

## EKRUCBL\*

### Control

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

### Comfort

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

### General features

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

### Applicable Daikin units

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



\* only in combination with EKRTEETS

# System controller for Daikin Altherma

## Control

### Reduce installation time

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

### Improve service diagnostics and maintenance

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

## Comfort

### Maximise comfort with stable room temperatures

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

### Weather depending floating set point

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



## Applicable Daikin units

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

## General features

---

# EKRTR/EKRTW

## Control

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

## Comfort

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

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



## General features

## Applicable Daikin units

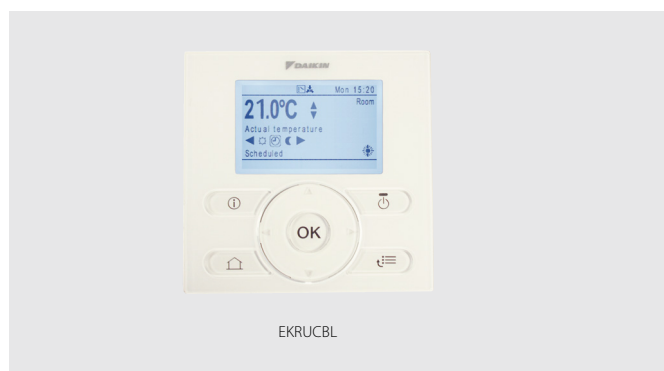
- › Combinable to all Daikin units

# EKRUDAS

## Room thermostat for Daikin Altherma 3



## Wired remote control for Heating



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

## EKRTW/EKTR

## Wired remote control for Heating



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







## Discover a world of silence



The low sound cover is the ideal and practical way to lower the sound of the Daikin Altherma outdoor unit. It allows for the unit to be in line with local regulations on sound emission or in the case of limited space, when the unit is installed close to a neighbouring property. With the use of this new Low Sound Cover, the sound performances of the Daikin Altherma outdoor units can be reduced with an additional -3 dB(A).



### Sound reduction

- Reducing the emitted sound with -3 dB(A) which corresponds to more than 50% reduction of the sound level
- To use with Daikin Altherma ERGA-D or ERLQ-C outdoor units
- In night mode, the sound is reduced to less than 35 dB(A) at 3 metres.



### Functional and modern outlook

The smooth and discrete design blends in with today's house architecture.



### Safeguarded performance & warranty

- The installation of the low sound cover has no impact on the heating performances of your outdoor unit, only the noise is reduced.
- Your warranty remains unchanged.



### Quick installation

- The low sound cover is delivered in a flat pack
- It can be installed over a floor or a wall mounted outdoor unit
- The cover can easily be assembled, based on a set of simple and straightforward instructions, delivered with the pack
- The installation of the low sound cover takes less than 20 minutes



-3 dBA

# Heat emitters

## Heat pump convector

The latest in heat pump convector technology for high performance

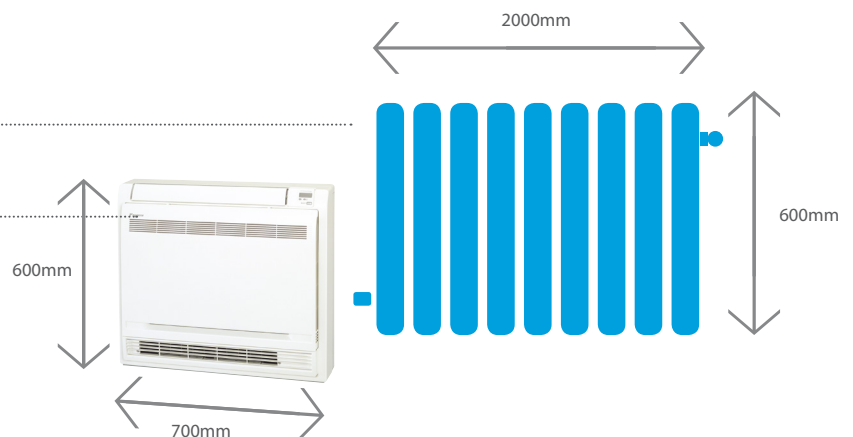
The Daikin heat pump convector is specifically designed to offer optimal efficiencies and comfort for residential applications.

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



Standard low temperature radiator

Daikin heat pump convector



## Notes



## Notes

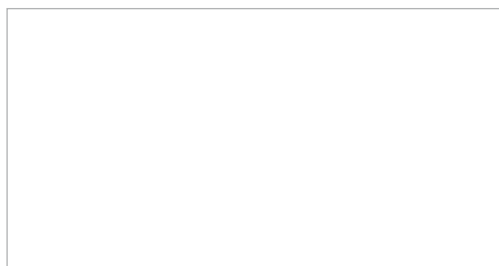


## Trust Daikin

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

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

**Daikin Europe N.V.** Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · [www.daikin.eu](http://www.daikin.eu) · BE 0412 120 336 · RPR Oostende (Responsible Editor)



ECPEN18 - 721

08/18



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.

Printed on non-chlorinated paper.