

Daikin Altherma 3 EPGA-D 11-14-16 kW

Product catalogue 2019



Safety and efficiency thanks to
hydraulic connections

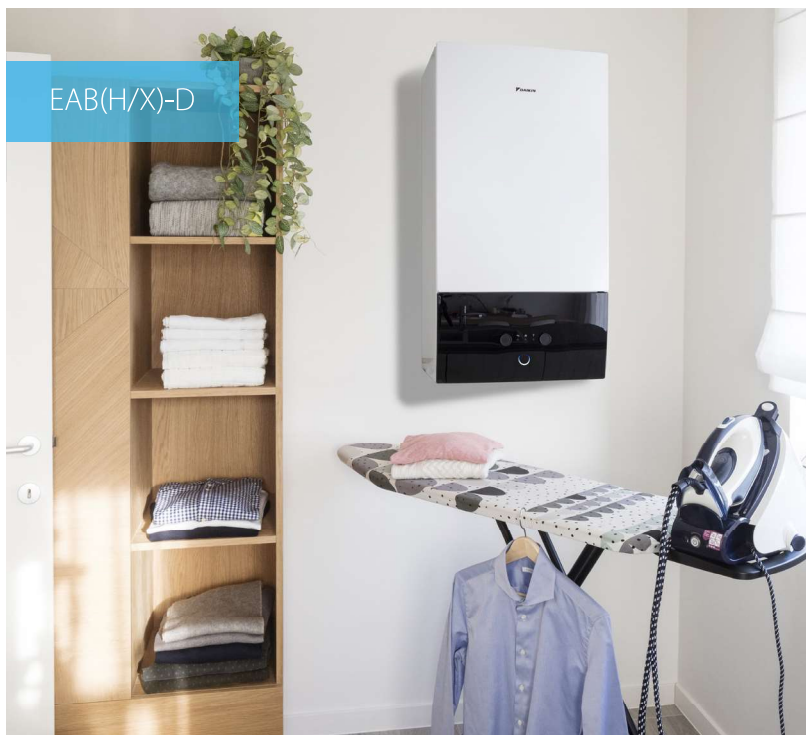


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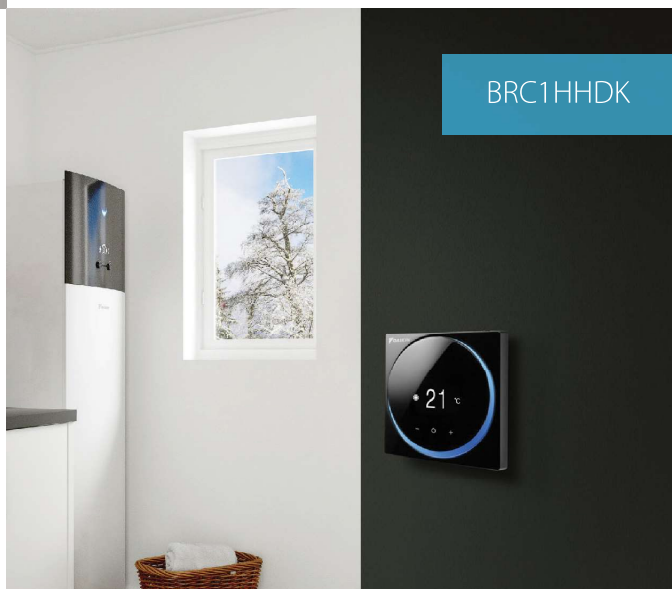
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EAB(H/X)-D



BRC1HHDK



EPGA-D



Table of contents

Daikin Altherma 3 11-14-16 kW	4
Daikin Altherma 3 floor standing	6
EAVH-D6V(G)/D9W(G) + EPGA-DV3	8
EAVX-D6V(G)/D9W(G) + EPGA-DV3	9
EAVZ-D6V/D9W + EPGA-DV3	10
Options	11
Daikin Altherma 3 wall mounted	12
EABH-D6V/D9W + EPGA-DV3	14
EABX-D6V/D9W + EPGA-DV3	15
Options	16
Thermal stores and tanks	18
Controls	22
Stand by me	24

Daikin Altherma 3 EPGA-D 11-14-16 kW powered by Bluevolution with R-32

R-32, the environmentally-friendly refrigerant

Bluevolution

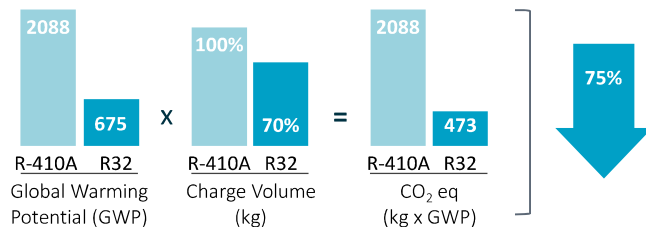
The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

BLUEEVOLUTION

R-32

Environmentally-friendly

Thanks to the combination of its lower GWP (675 vs. 2088, 5 for R410-A) and a lower refrigerant charge, R-32 is able to reduce by 75% its CO₂ equivalent which makes it better for the environment.



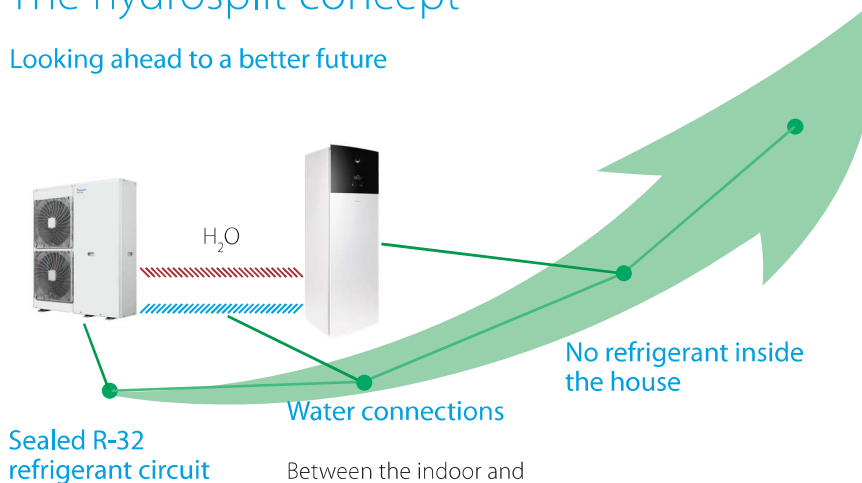
reddot award 2018
winner



DESIGN
AWARD
2018

The hydrosplit concept

Looking ahead to a better future



With R-32, the future is now

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



Gas injection advantage

Higher capacity at low ambient

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

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

Convenient for sensitive urban areas

Low sound installer setting

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

Higher performances

Leaving water temperature

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

- For new build applications using underfloor heating;
- For renovation applications using radiators.

Top energy performances

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

Daikin Altherma 3 11-14-16 kW outdoor unit

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

- EAB(H/X)-D wall mounted indoor units;
- EAV(H/X)-D tank integrated floor standing indoor units;
- EAVZ-D tank integrated and bizon floor standing indoor units.



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



Daikin Altherma 3 with integrated domestic hot water tank

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

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

Easy to install

Small footprint & practical handles



The floor standing unit is designed to be handled easily thanks to its practical handles and without cutting edges. Its small footprint facilitates the installation in smaller spaces and the access to all the hydraulic components helps the installer to work on the unit without effort.



Advanced user interface

The Daikin Eye

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



Blue:

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



Red:

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



Quick to configure

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

Easy operation

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

Beautiful design

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

A complete range to answer all needs

Heating only models - EAVH-D

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

Reversible models - EAVX-D

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

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



Bizone models - EAVZ-D

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



Colour choice



White



Silver-grey

Capacity and sizes

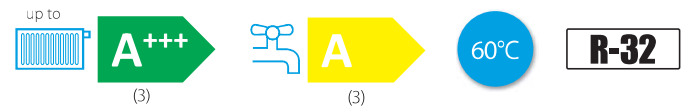




180 or 230 L
1650 or 1850 mm

Daikin Altherma 3 heating only models

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

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



Efficiency data				EAVH + EPGA	16S18D6V(G)/ D9W(G) + 11DV	16S23D6V(G)/ D9W(G) + 11DV	16S18D6V(G)/ D9W(G) + 14DV	16S23D6V(G)/ D9W(G) + 14DV	16S18D6V(G)/ D9W(G) + 16DV	16S23D6V(G)/ D9W(G) + 16DV
Heating capacity		Nom.		kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input		Heating	Nom.	kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.29		3.34		3.41	
			η _s (Seasonal space heating efficiency)	%	129		130		133	
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35°C	General	SCOP		4.38		4.45		4.56	
			η _s (Seasonal space heating efficiency)	%	172		175		179	
			Seasonal space heating eff. class		A++		A+++ (3)			
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	η _{wh} (water heating efficiency)		%	104	112	104	112	104	112
	Water heating energy efficiency class			A						

Indoor Unit				EAVH	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)
Casing	Colour				White + Black					
	Material				Resin / Sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	
Weight	Unit				109	118	109	118	109	118
Tank	Water volume	l			180	230	180	230	180	230
	Maximum water temperature	°C			70					
	Maximum water pressure	bar			10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	60					
Sound power level	Nom.				dBA	44				
Sound pressure level	Nom.				dBA	30				
Outdoor Unit				EPGA	11DV		14DV		16DV	
Dimensions	Unit	HeightxWidthxDepth	mm	1440x1160x380						
Weight	Unit				143					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB	10~43						
	Domestic hot water	Min.~Max.	°CDB	-28~35						
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge	kg			3.50					
	Charge	TCO2Eq			2.36					
	Control				Expansion valve					
Sound power level	Heating	Nom.	dBA	64				66		
	Cooling	Nom.	dBA	68						
Sound pressure level	Heating	Nom.	dBA	48		49		52		
	Cooling	Nom.	dBA	55						
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230					
Current	Recommended fuses			A	32					

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

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

Daikin Altherma 3 reversible models

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

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



up to



A+++



A

60°C

R-32

Efficiency data				EAVX + EPGA	16S18D6V(G)/ D9W(G) + 11DV	16S23D6V(G)/ D9W(G) + 11DV	16S18D6V(G)/ D9W(G) + 14DV	16S23D6V(G)/ D9W(G) + 14DV	16S18D6V(G)/ D9W(G) + 16DV	16S23D6V(G)/ D9W(G) + 16DV
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
Cooling capacity	Nom.			kW	10.5 (1) / 10.7 (2)		11.1 (1) / 11.9 (2)		13.5 (1) / 11.9 (2)	
Power input	Cooling	Nom.		kW	2.21 (1) / 3.30 (2)		2.72 (1) / 3.97 (2)		3.42 (1) / 3.97 (2)	
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)	
EER					4.75 (1) / 3.23 (2)		4.09 (1) / 2.99 (2)		3.94 (1) / 2.99 (2)	
Space heating	Average climate water outlet 55°C	General	SCOP		3.32		3.37		3.43	
			η _s (Seasonal space heating efficiency)	%	130		132		134	
			Seasonal space heating eff. class				A++			
	Average climate water outlet 35°C	General	SCOP		4.44		4.51		4.61	
			η _s (Seasonal space heating efficiency)	%	175		178		182	
			Seasonal space heating eff. class		A++		A+++ (3)			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		η _{wh} (water heating efficiency)			104	112	104	112	104	112
		Water heating energy efficiency class					A			

Indoor Unit				EAVX	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)
Casing	Colour	White + Black								
	Material	Resin / Sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm		1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit		kg		109	118	109	118	109	118
Tank	Water volume		l		180	230	180	230	180	230
	Maximum water temperature		°C				70			
	Maximum water pressure		bar				10			
	Corrosion protection						Pickling			
Operation range	Heating	Ambient	Min.~Max.	°C			5~30			
		Water side	Min.~Max.	°C			15~60			
	Cooling	Ambient	Min.~Max.	°CDB			5~35			
		Water side	Min.~Max.	°C			5~22			
	Domestic hot water	Ambient	Min.~Max.	°CDB			5~35			
		Water side	Max.	°C			60			
Sound power level	Nom.			dBA			44			
Sound pressure level	Nom.			dBA			30			

Outdoor Unit				EPGA	11DV	14DV	16DV
Dimensions	Unit	HeightxWidthxDepth	mm			1440x1160x380	
Weight	Unit		kg			143	
Compressor	Quantity					1	
	Type					Hermetically sealed scroll compressor	
Operation range	Cooling	Min.~Max.	°CDB			10~43	
	Domestic hot water	Min.~Max.	°CDB			-28~35	
Refrigerant	Type					R-32	
	GWP					675.0	
	Charge		kg			3.50	
	Charge		TCO2Eq			2.36	
	Control					Expansion valve	
Sound power level	Heating	Nom.	dBA		64		66
	Cooling	Nom.	dBA			68	
Sound pressure level	Heating	Nom.	dBA		48		52
	Cooling	Nom.	dBA			55	
Power supply	Name/Phase/Frequency/Voltage		Hz/V			V3/1N~/50/230	
Current	Recommended fuses		A			32	

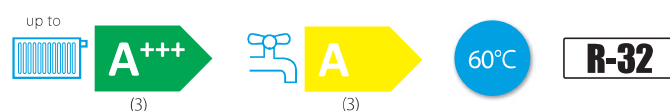
(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)



(3) According to EU n°81 1/2013 label lay-out 2019, on a scale from G to A+++.

Daikin Altherma 3 bi-zone models

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

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







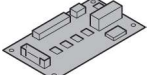
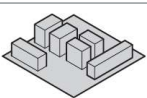






Efficiency data				EAVZ + EPGA	16S18D6V/D9W + 11DV	16S23D6V/D9W + 11DV	16S18D6V/D9W + 14DV	16S23D6V/D9W + 14DV	16S18D6V/D9W + 16DV	16S23D6V/D9W + 16DV
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.29		3.34		3.41	
			ηs (Seasonal space heating efficiency)	%	129		130		133	
			Seasonal space heating eff. class				A++			
	Average climate water outlet 35°C	General	SCOP		4.38		4.45		4.56	
			ηs (Seasonal space heating efficiency)	%	172		175		179	
			Seasonal space heating eff. class		A++		A+++ (3)			
 Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	ηwh (water heating efficiency)			104	112	104	112	104	112
	Water heating energy efficiency class			A						
Indoor Unit				EAVZ	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W
Casing	Colour	White + Black								
	Material	Resin / Sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm		1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625	1,650x595x625	1,850x595x625
Weight	Unit		kg		120	128	120	128	120	128
Tank	Water volume			l	180	230	180	230	180	230
	Maximum water temperature			°C	70					
	Maximum water pressure			bar	10					
	Corrosion protection				Pickling					
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	60					
Sound power level	Nom.			dBA	44					
Sound pressure level	Nom.			dBA	30					
Outdoor Unit				EPGA	11DV		14DV		16DV	
Dimensions	Unit	HeightxWidthxDepth	mm		1440x1160x380					
Weight	Unit		kg		143					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10~43					
	Domestic hot water	Min.~Max.	°CDB		-28~35					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge		kg		3.50					
	Charge		TCO2Eq		2.36					
	Control				Expansion valve					
Sound power level	Heating	Nom.	dBA		64				66	
	Cooling	Nom.	dBA				68			
Sound pressure level	Heating	Nom.	dBA		48		49		52	
	Cooling	Nom.	dBA				55			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230					
Current	Recommended fuses			A	32					

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

(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 floor standing
Controls	Remote user interface	BRC1HHDK/S/W		●
	LAN Adapter + PV Solar connection	BRP069A61		●
	LAN only	BRP069A62		●
	Room thermostat (wired)	EKRTWA		●
	Room thermostat (wireless)	EKRTR1		●
	External sensor	EKRTETS		●
Adapter	Demand PCB	EKRP1AHTA		●
	Digital I/O PCB	EKRP1HBAA		●
Installation	Bi-zone kit (watts kit)	BZKA7V3		● (excluding EHVZ)
	Third party tank kit for tank with sensor pocket	EKHY3PART		
	Third party tank kit for tank with built-in thermostat	EKHY3PART2		
Sensors	Remote indoor sensor	KRCS01-1		●
	Remote outdoor sensor	EKRSCA-1		●
Others	PC USB Cable	EKPCCAB4		●
	Conversion kit	EKHBCONV		
		EKHVCONV2		●
	Universal centralized controller	EKCC8-W		●
	Freeze protection valve	AFVALVE1		●
	Heat pump convector + valve kit	FWXV-A + EKVKHPC		●

Daikin Altherma 3

wall mounted

Why choose Daikin wall mounted unit?

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

High flexibility for installation and domestic hot water connection

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



Advanced user interface

The Daikin Eye

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



Blue:

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



Red:

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



Quick to configure

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

Easy operation

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

Beautiful design

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

Multiple tank solutions, infinite possibilities

ECH₂O Thermal stores (EKHWP-(P)B)

Connect your Daikin Altherma 3 H W with a thermal store and take advantage of the energy of the sun.

Stainless steel tank (EKHWS(U)-D)

Connect your Daikin Altherma 3 H W with a stainless steel tank to achieve efficient domestic hot water heating production.

Flexibility in providing domestic hot water

Heating only models - EABH-D

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



Reversible models - EABX-D

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

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




> See more details on thermal stores and tanks on page 18.

Daikin Altherma 3 heating only models

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

- › Combine with a stainless steel tank or ECH2O thermal store to provide domestic hot water
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28°C



Efficiency data				EABH + EPGA	16D6V/D9W + 11DV		16D6V/D9W + 14DV		16D6V/D9W + 16DV	
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)	
 Space heating	Average climate water outlet 55°C	General	SCOP		3.29		3.34		3.41	
			ηs (Seasonal space heating efficiency)	%	129		130		133	
			Seasonal space heating eff. class	A++						
	Average climate water outlet 35°C	General	SCOP		4.38		4.45		4.56	
			ηs (Seasonal space heating efficiency)	%	172		175		179	
				Seasonal space heating eff. class	A++A+++ (3)					
Indoor Unit				EABH	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour				White + Black					
	Material				Resin, sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm		840x440x390					
Weight	Unit				kg38					
Operation range	Heating	Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Water side	Min.~Max.	°C	25~75					
Sound power level	Nom.				dBA44					
Sound pressure level	Nom.				dBA30					
Outdoor Unit				EPGA	11DV		14DV		16DV	
Dimensions	Unit	HeightxWidthxDepth	mm		1440x1160x380					
Weight	Unit				kg143					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10~43					
	Domestic hot water	Min.~Max.	°CDB		-28~35					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge	kg			3.50					
	Charge	TCO2Eq			2.36					
	Control				Expansion valve					
Sound power level	Heating	Nom.	dBA		64				66	
	Cooling	Nom.	dBA							
Sound pressure level	Heating	Nom.	dBA		48		49		52	
	Cooling	Nom.	dBA		55					
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230					
Current	Recommended fuses			A	32					

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

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


Daikin Altherma 3 reversible models

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

- › Combine with a stainless steel tank or ECH2O thermal store to provide domestic hot water
- › PCB board and hydraulic components are located in the front for easy access
- › Compact dimensions allows for small installation space, as almost no side clearances are required
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28°C









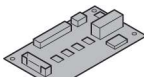
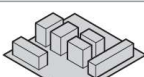



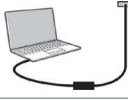
(3)

Efficiency data				EABX + EPGA	16D6V/D9W + 11DV		16D6V/D9W + 14DV		16D6V/D9W + 16DV		
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)		
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)		
Cooling capacity	Nom.			kW	10.5 (1) / 10.7 (2)		11.1 (1) / 11.9 (2)		13.5 (1) / 11.9 (2)		
Power input	Cooling	Nom.		kW	2.21 (1) / 3.30 (2)		2.72 (1) / 3.97 (2)		3.42 (1) / 3.97 (2)		
COP					5.15 (1) / 3.88 (2)		4.99 (1) / 3.65 (2)		4.78 (1) / 3.71 (2)		
EER					4.75 (1) / 3.23 (2)		4.09 (1) / 2.99 (2)		3.94 (1) / 2.99 (2)		
	Space heating	Average climate water outlet 55°C	General	SCOP		3.32	3.37		3.43		
				η _{sp} (Seasonal space heating efficiency)	%	130	132		134		
				Seasonal space heating eff. class		A++					
		Average climate water outlet 35°C	General	SCOP		4.44	4.51		4.61		
				η _{sp} (Seasonal space heating efficiency)	%	175	178		182		
				Seasonal space heating eff. class		A++					
					A+++ (3)						
Indoor Unit				EABX	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W	
Casing	Colour				White + Black						
	Material				Resin, sheet metal						
Dimensions	Unit	HeightxWidthxDepth	mm		840x440x390						
Weight	Unit				38						
Operation range	Heating	Water side	Min.~Max.	°C	15~60						
	Domestic hot water	Water side	Min.~Max.	°C	25~75						
Sound power level	Nom.				44						
Sound pressure level	Nom.				30						
Outdoor Unit				EPGA	11DV		14DV		16DV		
Dimensions	Unit	HeightxWidthxDepth	mm		1440x1160x380						
Weight	Unit				143						
Compressor	Quantity				1						
	Type				Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB		10~43						
	Domestic hot water	Min.~Max.	°CDB		-28~35						
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge				3.50						
	Charge				2.36						
	Control				Expansion valve						
Sound power level	Heating	Nom.	dBA		64				66		
	Cooling	Nom.	dBA		68						
Sound pressure level	Heating	Nom.	dBA		48		49		52		
	Cooling	Nom.	dBA		55						
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1N~/50/230						
Current	Recommended fuses			A	32						

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

(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 wall mounted
Controls	Remote user interface	BRC1HHDK/S/W		●
	LAN Adapter + PV Solar connection	BRP069A61		●
	LAN only	BRP069A62		●
	Room thermostat (wired)	EKRTWA		●
	Room thermostat (wireless)	EKRTR1		●
	External sensor	EKRTETS		●
Adapter	Demand PCB	EKRP1AHTA		●
	Digital I/O PCB	EKRP1HBAA		●
Installation	Bi-zone kit (watts kit)	BZKA7V3		●
	Third party tank kit for tank with sensor pocket	EKHY3PART		●
	Third party tank kit for tank with built-in thermostat	EKHY3PART2		●
Sensors	Remote indoor sensor	KRCS01-1		●
	Remote outdoor sensor	EKRSCA-1		●
Others	PC USB Cable	EKPCCAB4		●
	Conversion kit	EKHBCONV		●
		EKHVCONV2		
	Universal centralized controller	EKCC8-W		●
	Freeze protection valve	AFVALVE1		●
	Heat pump convector + valve kit	FWXV-A + EKVKHPC		●



Thermal stores and tank

Hot water heating installation options

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.



Thermal store EKHWP-(P)B



Stainless steel tank EKHWS(U)-D

Domestic hot water tank

Stainless steel tanks

Comfort

- › Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWS(U)-D

Efficiency

- › High-quality insulation keeps heat loss to a minimum
- › Efficient temperature heating: from 10°C to 50°C in only 60 minutes
- › Available as an integrated solution or separate tank

Reliability

- › At necessary intervals, the unit can heat up water up to 60°C to prevent the risk of bacteria growth



The ECH₂O thermal store range

ECH₂O thermal store: additional hot water comfort

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

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

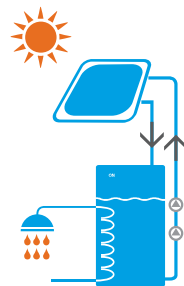
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

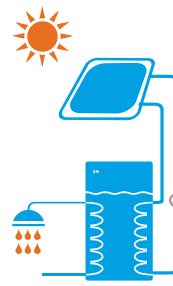
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

Reliability

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



Drain-back solar system



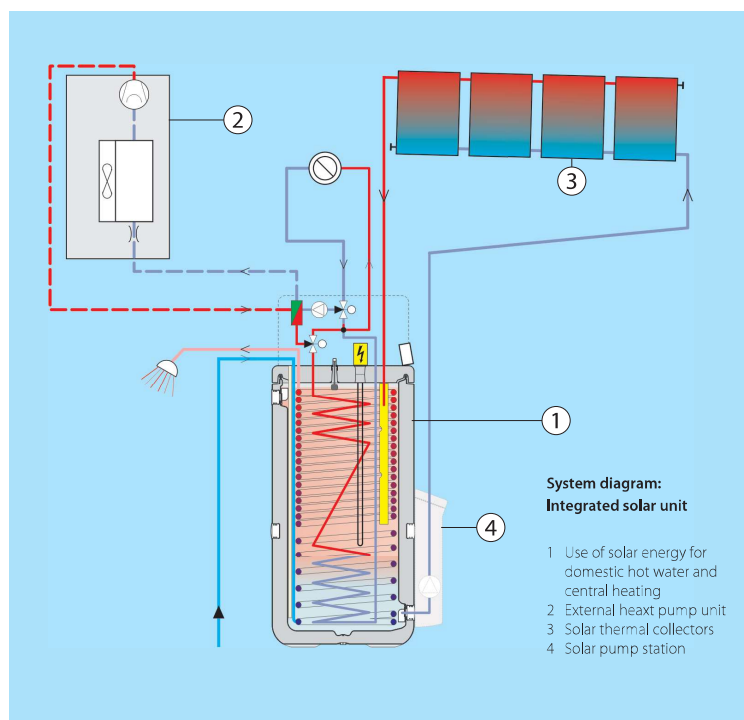
Pressurised solar system

Pressureless (drain-back) solar system

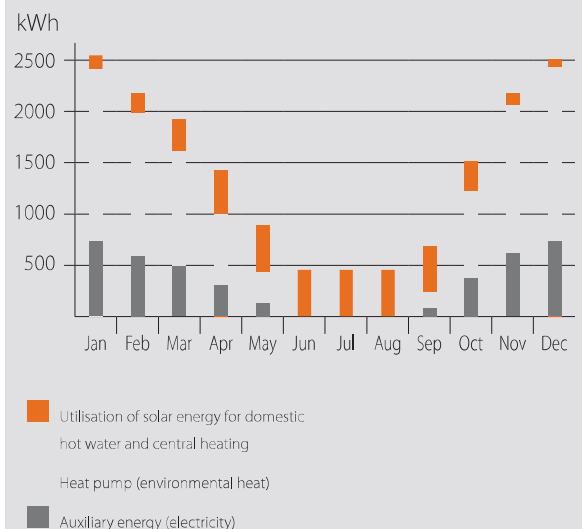
- › The solar collectors are only filled with water when sufficient heating is provided by the sun
- › The pumps in the control and pump unit switch on briefly and fill the collectors with storage tank water
- › After filling, water circulation is maintained by the remaining pump

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



Thermal store

Plastic domestic hot water tank with solar support

- › Tank designed for connection with pressurised thermal solar system
- › Tank designed for connection with drainback thermal solar system
- › Available in 500 liters only
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible



EKHWP500B

Accessory		EKHWP	500B	500PB
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)	
	Material		Impact resistant polypropylene	
Dimensions	Unit	Width	790	
		Depth		
Weight	Unit	Empty	82	89
Tank	Water volume	l	477	
	Material		Polypropylen	
	Maximum water temperature	°C	85	
	Insulation	Heat loss	1.7	
	Energy efficiency class		B	
	Standing heat loss	W	72	
	Storage volume	l	477	
	Domestic hot water	Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	5.800	5.900
Heat exchanger		Internal coil volume	28.1	
		Operating pressure	6	
		Average specific thermal output	2,825	
	Charging	Quantity	1	
		Tube material	Stainless steel (DIN 1.4404)	
		Face area	4	
		Internal coil volume	18	
		Operating pressure	3	
		Average specific thermal output	1,800	
	Pressurised solar	Average specific thermal output	-	840.00
	Auxiliary solar heating	Tube material	Stainless steel (DIN 1.4404)	
		Face area	1	
		Internal coil volume	4	
		Operating pressure	3	
		Average specific thermal output	280	


Domestic hot water tank

Stainless steel domestic hot water tank

› Available in 150, 180, 200, 250 and 300 litres in stainless steel
EKHWS(U)-D



EKHWS(U)-D

Accessory				EKHS	150(U)D3V3	180(U)D3V3	200(U)D3V3	250(U)D3V3	300(U)D3V3
Casing	Colour				Neutral white				
	Material				Epoxy coated steel / Epoxy-coated mild steel				
Weight	Unit	Empty	kg		45	50	53	58	63
 Tank	Water volume			l	145	174	192	242	292
	Material				Stainless steel (EN 1.4521)				
	Maximum water temperature			°C	75				
	Insulation	Heat loss	kWh/24h		1.1	1.2	1.3	1.4	1.6
	Energy efficiency class				B				
	Standing heat loss			W	45	50	55	60	68
	Storage volume			l	145	174	192	242	292
Heat exchanger	Domestic hot water	Quantity			1				
		Tube material			Stainless steel (EN 1.4521)				
		Face area		m²	1.050	1.400	1.800		
		Internal coil volume		l	4.9	6.5	8.2		
		Operating pressure		bar	10				
Booster heater	Capacity			kW	3				
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230				

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

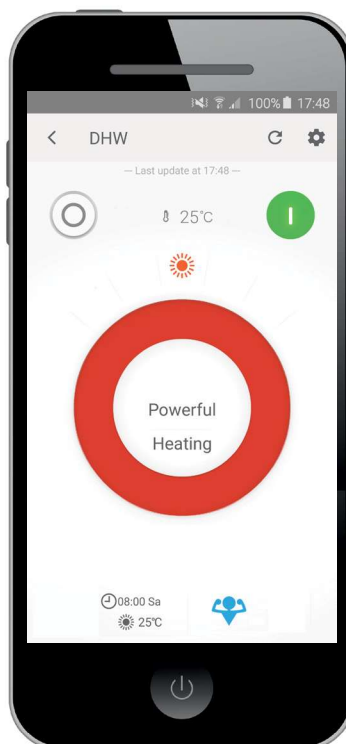
- › Schedule the set temperature* and operation mode with up to **6 actions per day for 7 days**
- › Enable **holiday mode**
- › View in intuitive mode

Control *

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

*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

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.

General features

- › 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



Madoka



reddot award 2018
winner



DESIGN
AWARD
2018

The beauty of simplicity.



Silver
RAL 9006 (metallic)
BRC1HHDS



Black
RAL 9005 (matt)
BRC1HHDK



White
RAL9003 (glossy)
BRC1HHDW

User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

Intuitive control with a premium design:

The smooth curves of the Madoka controller offer a sleek, refined shape which is distinguished by its striking blue circular display. Presenting a clear visual reference with large easy to read numbers, the controller features are accessed through three touch buttons, which combine intuitive control with easy adjustability for an enhanced user experience.

Three colours to match any interior design:

No matter your interior design, Madoka will match it. Silver gives an additional touch to stand out in any interior or application, while Black is an ideal match for darker, stylish interiors. White offers a sleek, modern look.

Easily set operation parameters:

Setting and finetuning your controller is simple and helps you attain higher energy savings and more comfort. The system enables you to select the space operation mode (heating, cooling or automatic), set the desired room temperature and control the domestic hot water temperature.

Easy Update via Bluetooth:

It is strongly recommended that the user interface has the latest software version. To update the software or check if updates are available, you need a mobile device and the Madoka Assistant app.

This app is available from Google Play and the Apple Store



www.daikin.eu/madoka

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

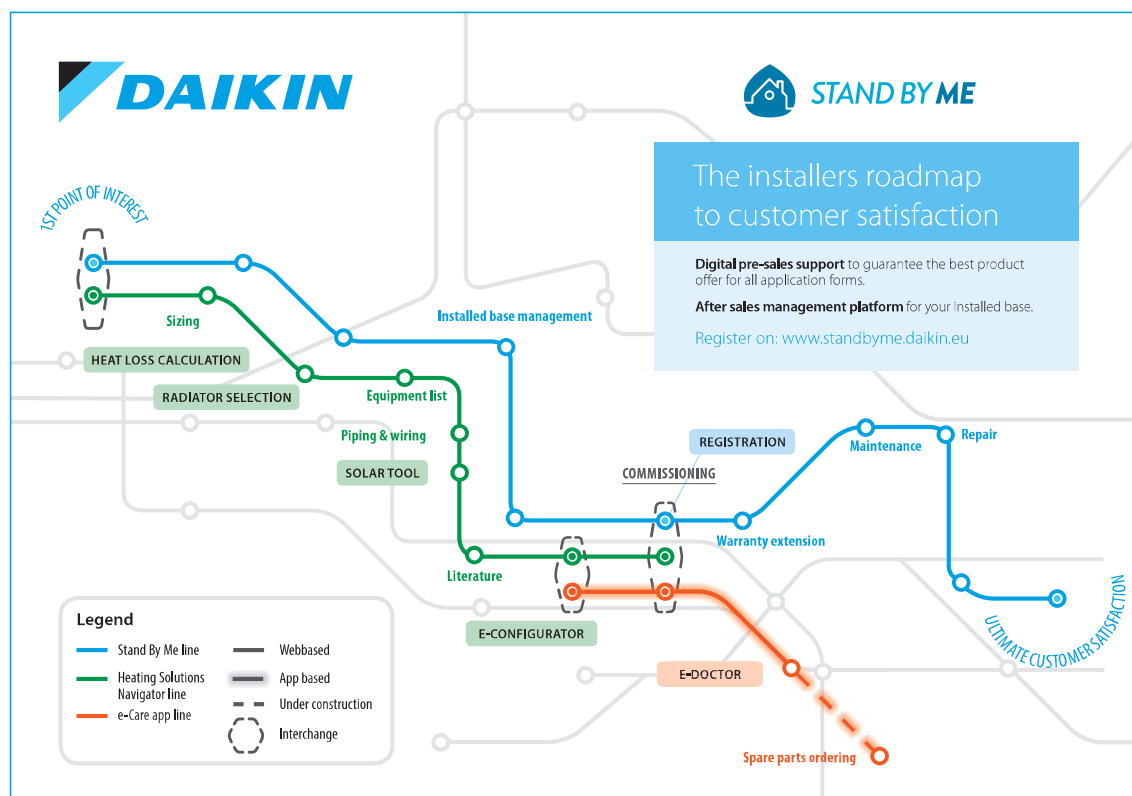
For a small fee, customers can extend the warranty. Contact your local Daikin branch to have more information about the specific offer in your country.

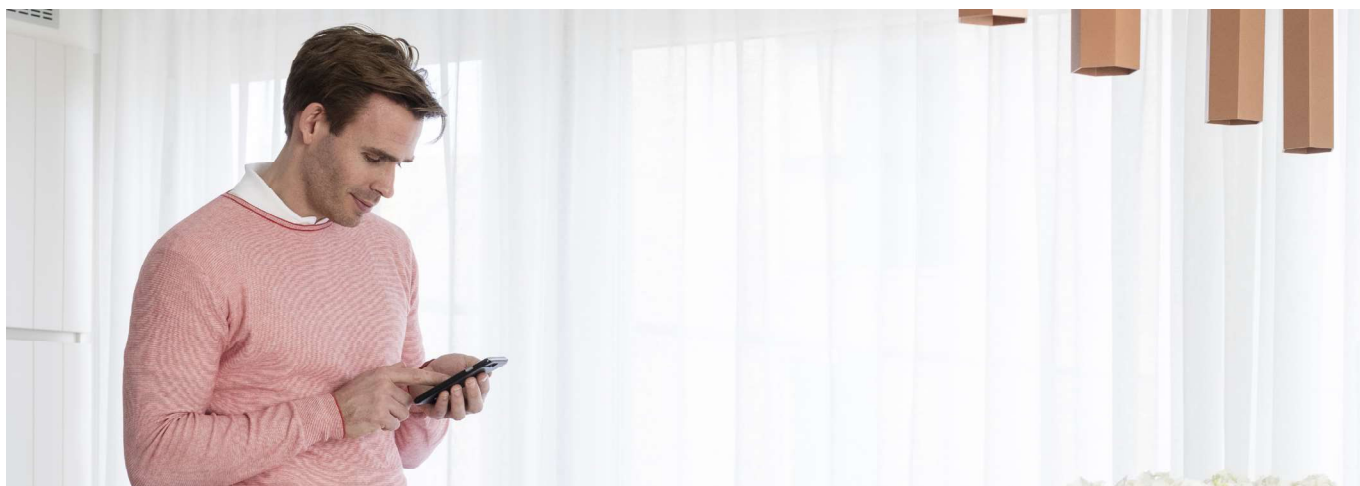
Stand By Me guarantees:

- ✓ 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

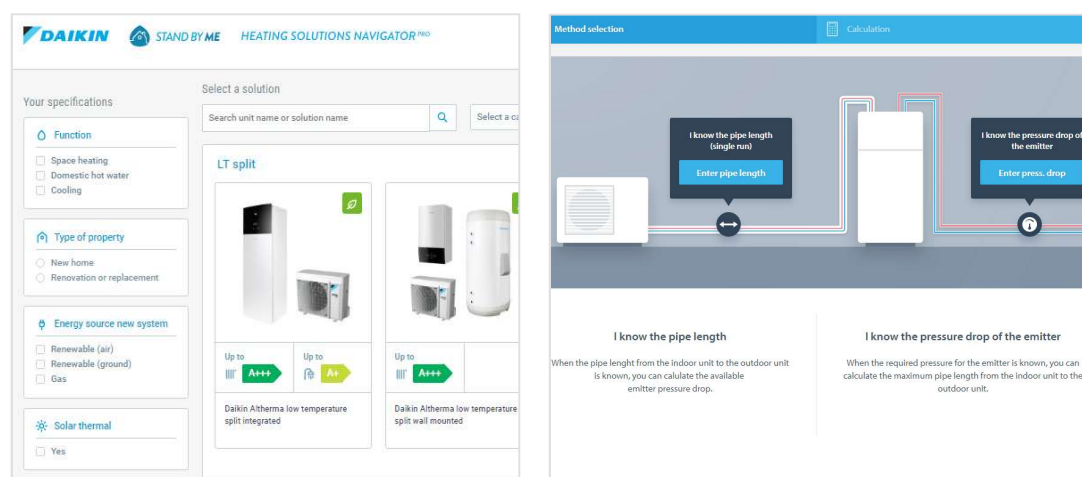




Heating Solutions Navigator

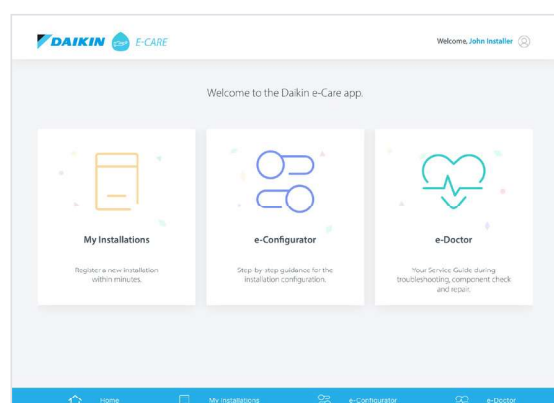
Want to know more about our Heating Solutions Navigator?

- › 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.
- › Via the embedded Pipe Sizing tool, you can calculate the maximum hydronic piping length from the indoor unit to the outdoor unit based on the emitter pressure drop or the other way around.



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.

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

DEMO



DEMO



HEATING SOLUTIONS NAVIGATOR (HSN)

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.

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.

DEMO



INSTALLED BASE MANAGEMENT

DEMO



LITERATURE

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.

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.

DEMO



RADIATOR

HSN Radiator Selection Tool

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

EQUIPMENT LIST

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.

WARRANTY EXTENSION



**CONTACT YOUR
LOCAL SBM/HSN SPECIALIST**

MAINTENANCE

REPAIR



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*



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DAIKIN
 HOME COMFORT Expert

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 W. www.pakson.mk



ECPEN19-712

01/19



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

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