

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

Product catalogue 2020



Safety and efficiency thanks to
hydraulic connections



EAB(H/X)-D



BRC1HHDK



EPGA-D



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Daikin Altherma 3 H

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

R-32, the environmentally-friendly refrigerant

Bluevolution

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

BLUEVOLUTION

R-32

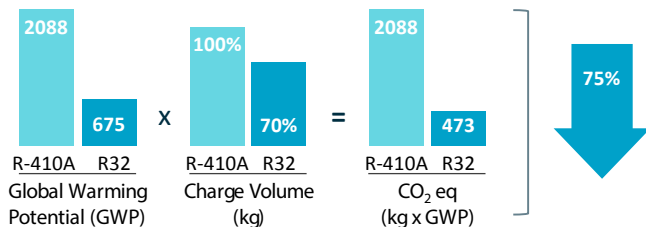

reddot award 2018
winner

 DESIGN
AWARD
2018



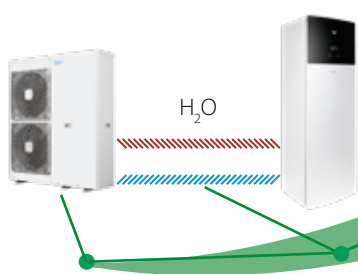
Environmentally-friendly

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



The hydrosplit concept

Looking ahead to a better future



Sealed R-32 refrigerant circuit

Reduction of the risk of refrigerant leakage.

Water connections

Between the indoor and the outdoor units.

No refrigerant inside the house

With R-32, the future is now

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



Gas injection advantage

Higher capacity at low ambient

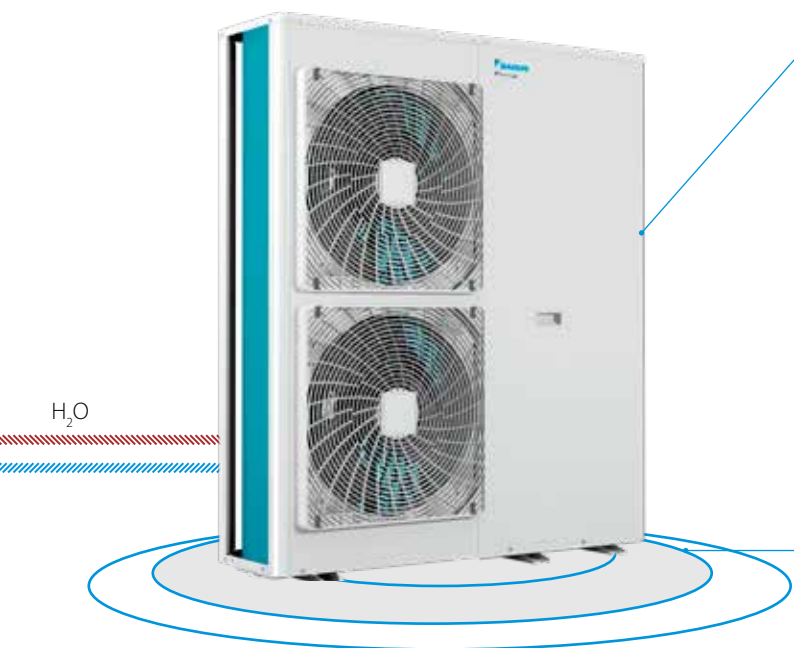
The Daikin Daikin Altherma 3 H 11-14-16 kW outdoor unit is equipped with a new gas injection scroll compressor allowing the unit to operate down to -28 °C outside temperature.

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

Convenient for sensitive urban areas

Low sound installer setting

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



Higher performances

Leaving water temperature

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

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

Top energy performances

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

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

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

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

up to





Daikin Altherma 3 H F

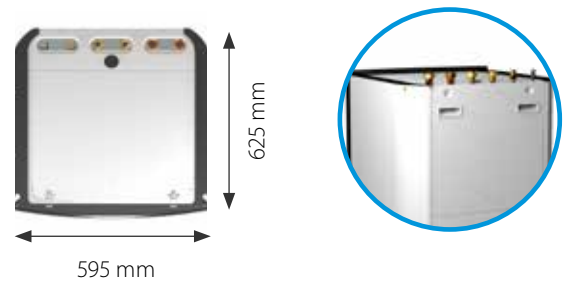
with integrated domestic hot water tank

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

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

Easy to install

Small footprint & practical handles



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

Reversible models - EAVX-D

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

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



Bi-Zone models - EAVZ-D

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



Colour choice



White

Silver-grey

Capacity and sizes



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

Daikin Altherma 3 H F

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

- › Integrated stainless steel domestic hot water tank of 180 or 230 l
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28 °C



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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	
	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+++			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate		η_{wh} (water heating efficiency)	%	104	111	104	111	104	111
			Water heating energy efficiency class		A					
Indoor Unit				EAVH	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)
Casing	Colour	White + Black								
	Material	Resin / Sheet metal								
Dimensions	Unit	Height x Width x Depth	mm	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	
Weight	Unit		kg	109	118	109	118	109	118	
Tank	Water volume		l	180	230	180	230	180	230	
	Maximum water temperature		°C	70						
	Maximum water pressure		bar	10						
	Corrosion protection			Pickling						
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	60					
Sound power level	Nom.		dBA	44						
Sound pressure level	Nom.		dBA	30						
Outdoor Unit				EPGA	11DV	14DV	16DV			
Dimensions	Unit	Height x Width x Depth	mm	1,440 x 1,160 x 380						
Weight	Unit		kg	143						
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10~43						
	Domestic hot water	Min.~Max.	°CDB	-28~35						
Refrigerant	Type			R-32						
	GWP			675.0						
	Charge		kg	3.50						
	Charge		TCO ₂ Eq	2.36						
	Control			Expansion valve						
Sound power level	Heating	Nom.	dBA	64						
	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).

Daikin Altherma 3 H F

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

- › Integrated stainless steel domestic hot water tank of 180 or 230 l
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28 °C



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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.				11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	Heating	Nom.			2.16 (1) / 2.91 (2)		2.91 (1) / 3.96 (2)		3.45 (1) / 4.21 (2)	
Cooling capacity	Nom.				10.5 (1) / 10.7 (2)		11.1 (1) / 11.9 (2)		13.5 (1) / 11.9 (2)	
Power input	Cooling	Nom.			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+++				
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
	Average climate	η_{wh} (water heating efficiency)	%		104	111	104	111	104	111
		Water heating energy efficiency class			A					

Indoor Unit				EAVX	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	16S18D6V(G)/ D9W(G)	16S23D6V(G)/ D9W(G)	
Casing	Colour	White + Black									
	Material	Resin / Sheet metal									
Dimensions	Unit	Height x Width x Depth	mm	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,850 x 595 x 625	
Weight	Unit		kg	109	118	109	118	109	118	118	
Tank	Water volume		l	180	230	180	230	180	230	230	
	Maximum water temperature		°C	70							
	Maximum water pressure		bar	10							
Operation range	Corrosion protection			Pickling							
	Heating	Ambient	Min.~Max.	°C	5~30						
		Water side	Min.~Max.	°C	15~60						
	Cooling	Ambient	Min.~Max.	°CDB	5~35						
		Water side	Min.~Max.	°C	5~22						
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35						
Water side		Max.	°C	60							
Sound power level	Nom.		dBa	44							
Sound pressure level	Nom.		dBa	30							

Outdoor Unit				EPGA	11DV	14DV	16DV
Dimensions	Unit	Height x Width x Depth	mm	1,440 x 1,160 x 380			
Weight	Unit		kg	143			
Compressor	Quantity			1			
	Type			Hermetically sealed scroll compressor			
Operation range	Cooling	Min.~Max.	°CDB	10~43			
	Domestic hot water	Min.~Max.	°CDB	-28~35			
Refrigerant	Type			R-32			
	GWP			675.0			
	Charge		kg	3.50			
	Charge		TCO ₂ Eq	2.36			
	Control			Expansion valve			
Sound power level	Heating	Nom.	dBa	64			66
	Cooling	Nom.	dBa	68			
Sound pressure level	Heating	Nom.	dBa	48	49		52
	Cooling	Nom.	dBa	55			
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1N~/50/230			
Current	Recommended fuses		A	32			

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

Daikin Altherma 3 H F

Floor standing integrated with two different temperature zones monitoring

- › Integrated stainless steel domestic hot water tank of 180 or 230 l
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 595 x 625 mm
- › Integrated back-up heater choice of 6 or 9 kW
- › Outdoor unit extracts heat from the outdoor air, even at -28 °C












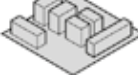




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Efficiency data				EAVZ + EPGA	16S18D6V/D9W + 11DV	16S23D6V/D9W + 11DV	16S18D6V/D9W + 14DV	16S23D6V/D9W + 14DV	16S18D6V/D9W + 16DV	16S23D6V/D9W + 16DV
Heating capacity	Nom.		kW		11.1 (1) / 11.3 (2)		14.5 (1) / 14.5 (2)		16.5 (1) / 15.6 (2)	
Power input	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	
			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+++			
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
		Average	η_{wh} (water heating efficiency)	%	104	111	104	111	104	111
		Water heating energy efficiency class			A					
Indoor Unit				EAVZ	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W	16S18D6V/D9W	16S23D6V/D9W
Casing	Colour	White + Black								
	Material	Resin / Sheet metal								
Dimensions	Unit	Height x Width x Depth	mm	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	1,650 x 595 x 625	1,850 x 595 x 625	
Weight	Unit		kg	120	128	120	128	120	128	
Tank	Water volume		l	180	230	180	230	180	230	
	Maximum water temperature		°C	70						
	Maximum water pressure		bar	10						
	Corrosion protection			Pickling						
Operation range	Heating	Ambient	Min.~Max.	°C	5~30					
		Water side	Min.~Max.	°C	15~60					
	Domestic hot water	Ambient	Min.~Max.	°CDB	5~35					
		Water side	Max.	°C	60					
Sound power level	Nom.		dBA	44						
Sound pressure level	Nom.		dBA	30						
Outdoor Unit				EPGA	11DV	14DV	16DV			
Dimensions	Unit	Height x Width x Depth	mm	1,440 x 1,160 x 380						
Weight	Unit		kg	143						
Compressor	Quantity			1						
	Type			Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB	10~43						
	Domestic hot water	Min.~Max.	°CDB	-28~35						
Refrigerant	Type			R-32						
	GWP			675.0						
	Charge		kg	3.50						
	Charge		TCO ₂ Eq	2.36						
	Control			Expansion valve						
Sound power level	Heating	Nom.	dBA	64			66			
	Cooling	Nom.	dBA	68			66			
Sound pressure level	Heating	Nom.	dBA	48	49		52			
	Cooling	Nom.	dBA	55			52			
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).

Options

	Type	Material name	Daikin Altherma 3 H F
Controllers		Remote user interface	BRC1HHDK/S/W ●
		LAN Adapter + PV Solar connection	BRP069A61 ●
		LAN only	BRP069A62 ●
		Room thermostat (wired)	EKRTWA ●
		Room thermostat (wireless)	EKRTR1 ●
		External sensor	EKRTETS ●
		DCOM gateway	DCOM-LT/IO ●
		DCOM gateway	DCOM-LT/MB ●
Adapter		Demand PCB	EKRP1AHTA ●
		Digital I/O PCB	EKRP1HBAA ●
Installation		Bi-Zone kit (watts kit)	BZKA7V3 ● (excluding EHVZ)
		Third party tank it for tank with sensor pocket	EKHY3PART ●
		Third party tank kit for tank with built-in thermostat	EKHY3PART2 ●
Sensors		Remote indoor sensor	KRCS01-1 ●
		Remote outdoor sensor	EKRSCA-1 ●
Others		PC USB Cable	EKPCCAB4 ●
		Conversion kit	EKHBCONV ●
		Universal centralized controller	EKHVCONV2 ●
		Freeze protection valve	AFVALVE1 ●
		Heat pump convector + valve kit	FWX(V/M/T)-ATV3(*) + EKVKHPC ●

Daikin Altherma 3 H W

wall mounted unit



Why choose Daikin wall mounted unit?

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

High flexibility for installation and domestic hot water connection

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



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.

Multiple tank solutions, infinite possibilities

ECH₂O Thermal stores (EKHWP-(P)B)

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

Stainless steel tank (EKHWS(U)-D)

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

Flexibility in providing domestic hot water

Heating only models - EABH-D

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



Reversible models - EABX-D

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

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



Daikin Altherma 3 H W

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

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



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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	
			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++				
Indoor Unit				EABH	16D6V	16D9W	16D6V	16D9W
Casing	Colour	White + Black						
	Material	Resin, sheet metal						
Dimensions	Unit	Height x Width x Depth	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				EPGA	11DV	14DV	16DV	
Dimensions	Unit	Height x Width x Depth	mm					
Weight	Unit	kg						
Compressor	Quantity	1						
	Type	Hermetically sealed scroll compressor						
Operation range	Cooling	Min.~Max.	°CDB					
	Domestic hot water	Min.~Max.	°CDB					
Refrigerant	Type	R-32						
	GWP	675.0						
	Charge	kg						
	Charge	TCO ₂ Eq						
	Control	Expansion valve						
Sound power level	Heating	Nom.	dBA					
	Cooling	Nom.	dBA					
Sound pressure level	Heating	Nom.	dBA		dBA		dBA	
	Cooling	Nom.	dBA		dBA		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).

Daikin Altherma 3 H W

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

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

















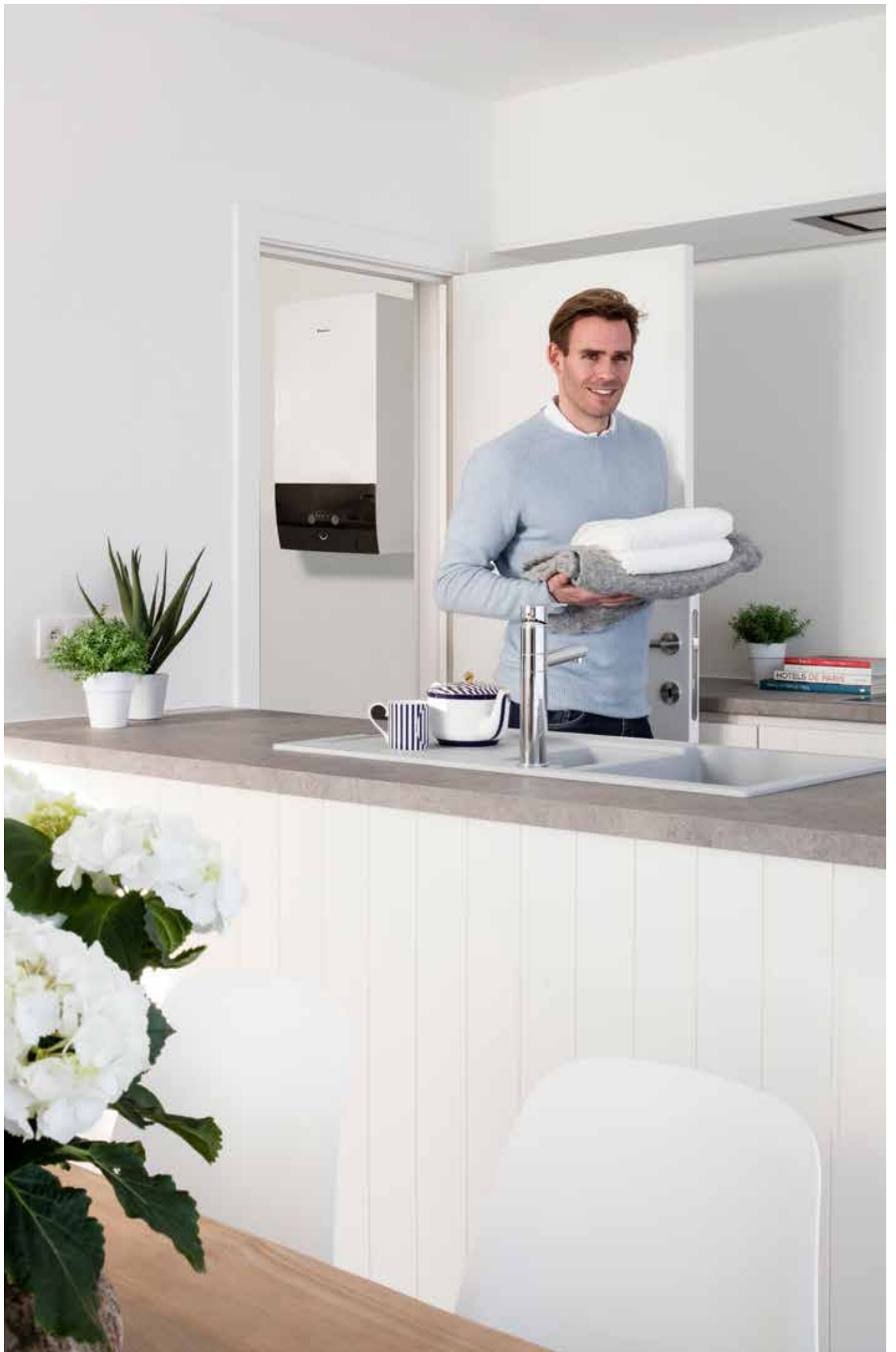
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Efficiency data				EABX + EPGA	16D6V/D9W + 11DV	16D6V/D9W + 14DV	16D6V/D9W + 16DV			
Heating capacity	Nom.			kW	11.1 (1) / 11.3 (2)	14.5 (1) / 14.5 (2)	16.5 (1) / 15.6 (2)			
Power input	Heating	Nom.		kW	2.16 (1) / 2.91 (2)	2.91 (1) / 3.96 (2)	3.45 (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 _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+++						
Indoor Unit				EABX	16D6V	16D9W	16D6V	16D9W	16D6V	16D9W
Casing	Colour	White + Black								
	Material	Resin, sheet metal								
Dimensions	Unit	Height x Width x Depth	840 x 440 x 390							
Weight	Unit		38							
Operation range	Heating	Water side	Min.~Max.	°C						
	Domestic hot water	Water side	Min.~Max.	°C						
Sound power level	Nom.	dBA							44	
Sound pressure level	Nom.	dBA							30	
Outdoor Unit				EPGA	11DV	14DV	16DV			
Dimensions	Unit	Height x Width x Depth	mm				1,440 x 1,160 x 380			
Weight	Unit		kg				143			
Compressor	Quantity	1								
	Type	Hermetically sealed scroll compressor								
Operation range	Cooling	Min.~Max.	°CDB				10~43			
	Domestic hot water	Min.~Max.	°CDB				-28~35			
Refrigerant	Type	R-32								
	GWP	675.0								
	Charge	kg					3.50			
	Charge	TCO ₂ Eq					2.36			
Control	Expansion valve									
	Sound power level	Heating	Nom.	dBA			64	66		
Sound pressure level	Cooling	Nom.	dBA			68	52			
	Heating	Nom.	dBA			48	49			
Power supply	Cooling	Nom.	dBA			55				
	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).

Options

	Type	Material name	Daikin Altherma 3 H W	
Controllers		Remote user interface	BRC1HHDK/S/W	●
		LAN Adapter + PV Solar connection	BRP069A61	●
		LAN only	BRP069A62	●
		Room thermostat (wired)	EKRTWA	●
		Room thermostat (wireless)	EKRTR1	●
		External sensor	EKRTETS	●
		DCOM gateway	DCOM-LT/IO	
		DCOM gateway	DCOM-LT/MB	
Adapter		Demand PCB	EKRP1AHTA	●
		Digital I/O PCB	EKRP1HBAA	●
Installation		Bi-Zone kit (watts kit)	BZKA7V3	●
		With storage tank EKHWP*	EKBH3SD	●
		Third party tank it for tank with sensor pocket	EKHY3PART	●
		Third party tank kit for tank with built-in thermostat	EKHY3PART2	●
Sensors		Remote indoor sensor	KRCS01-1	●
		Remote outdoor sensor	EKRSCA-1	●
Others		PC USB Cable	EKPCCAB4	●
		Conversion kit	EKHBCONV EKHVCONV2	●
		Universal centralized controller	EKCC8-W	●
		Freeze protection valve	AFVALVE1	●
		Heat pump convector + valve kit	FWX(V/M/T)-ATV3(*) + EKVKHPC	●



Thermal stores and tanks

Hot water heating installation solutions



Why choose a Daikin Altherma ST thermal store or domestic hot water tank?

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



Thermal store



Stainless steel tank

Domestic hot water 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 monobloc with a thermal store to achieve the ultimate comfort at home.

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

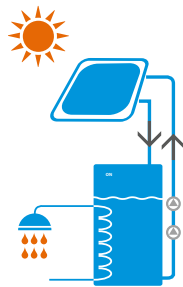
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

Efficiency

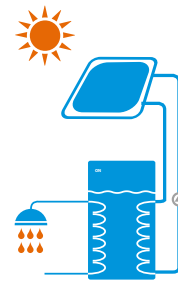
- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

Reliability

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



Drain-back solar system



Pressurised solar system

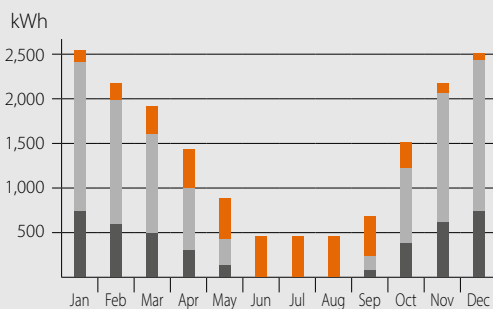
Pressureless (drain-back) solar system

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

Pressurised solar system

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

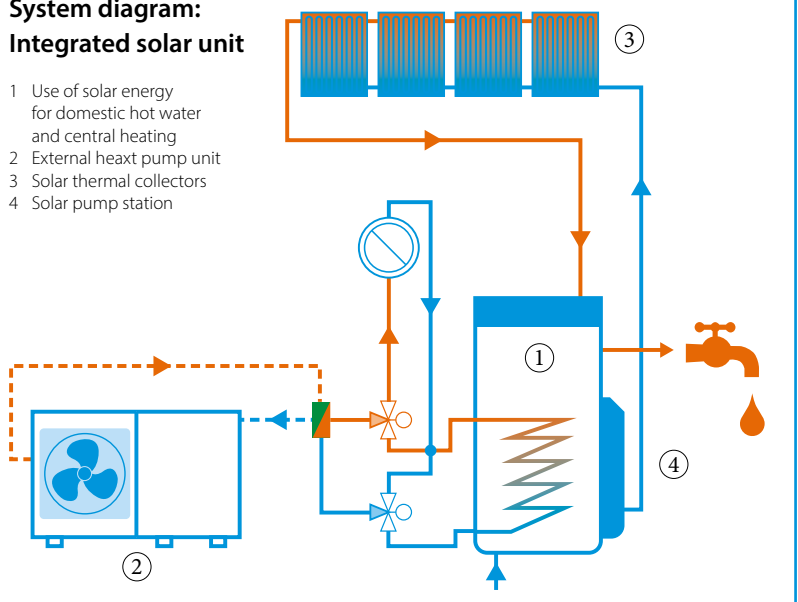
Monthly energy consumption of an average detached house



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

System diagram: Integrated solar unit

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



Daikin Altherma ST Thermal store

Plastic domestic hot water tank with solar support

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



Accessory		EKHWP	300B	500B	300PB	500PB	54419B		
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material	Impact resistant polypropylene							
Dimensions	Unit	Width	mm	595	790	595	790		
		Depth	mm	615	790	615	790		
		Height	mm	1,646	1,658	1,646	1,658		
Weight	Unit	Empty	kg	53	76	56	82	71	
		Water volume	l	294	477	294	477		
Tank	Material	Polypropylene							
	Maximum water temperature	°C	85						
	Insulation	Heat loss	kWh/24h	1.5	1.7	1.5	1.7		
			Energy efficiency class	B					
	Standing heat loss	W	64	72	64	72			
	Storage volume	l	290	393	290	393			
	Heat exchanger	Domestic hot water	Quantity	1					
Tube material			Stainless steel (DIN 1.4404)						
Face area			m²	5.6	5.8	5.6	5.9	5.8	
Internal coil volume			l	27.8	28.9	27.8	29	28.9	
Operating pressure			bar	6					
Charging		Quantity	1						
		Tube material	Stainless steel (DIN 1.4404)						
		Face area	m²	2.66	3.7	2.66	3.7	1.95	
		Internal coil volume	l	12.9	18.1	12.9	18.1	10	
Auxiliary solar heating		Operating pressure	bar	3					
		Tube material			-	Stainless steel (DIN 1.4404)	-	Stainless steel (DIN 1.4404)	
		Face area	m²	-	0.76	-	0.76		
		Internal coil volume	l	-	3.9	-	3.9		
Operating pressure	bar	-	3	-	3				

Domestic hot water tank

Stainless steel domestic hot water tank

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



EKHWS(U)-D



B



Accessory		EKHWS(U)		150D3V3	180D3V3	200D3V3	250D3V3	300D3V3	
Casing	Colour	Neutral white							
	Material	Epoxy coated steel / Epoxy-coated mild steel							
Dimensions	Unit	Height	Tank	mm	1,000	1,164	1,264	1,535	1,745
	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		m ²	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					

Madoka

The beauty of simplicity



Silver
RAL 9006 (metallic)
BRCIHHDS



Black
RAL 9005 (matt)
BRCIHHDK



White
RAL9003 (glossy)
BRCIHHDW

User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- ✓ Sleek and elegant design
- ✓ Intuitive touch-button control
- ✓ Three colours to match any interior
- ✓ Compact, measures only 85 x 85 mm



reddot award 2018
winner



Madoka wired remote controller for Daikin Altherma 3 heat pumps

A new generation of user interface, redesigned and intuitive



Intuitive control with a premium design

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

Three colours to match any interior design

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

Always in control

Daikin Residential Controller

The Daikin Residential Controller application can, from any place at any time, control and monitor the status of your heating system and allows you to (*):

Monitor

- › The status of your system:
 - Room temperature
 - Requested room temperature
 - Operation mode
- › Energy consumption graphs (day, week, month)

Schedule

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

Control

- › Operation mode
- › Change the requested room temperature
- › Change the requested domestic hot water temperature
- › Powerful mode (fast heating domestic hot water)

*Availability of functions is depending on the system type, configuration and operation mode. App functionality is only available if both the Daikin system and the App have Internet connectivity.



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



Individual room control system for temperature adjustment of heating and cooling systems



General features

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

Comfort

With the help of an electronic room-by-room control system, users can regulate the temperature individually in each room.

In addition to the warmth output of the actual heating surfaces, the room temperature control system also takes all other heat sources into account, such as sunshine, warmth from lights or people, and other sources of warmth, such as a fireplace or a tiled stove. On the basis of a continuous comparison of the target

and current temperatures, the room temperature control system opens and closes the individual heating circuits by way of electrical valve actuators.

System components

Base station EKWUFHTA1V3



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



Wired analog thermostat EKWCTAN1V3

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



Wired digital thermostat EKWCTRD11V3

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



Valve actuator EKWCVAT1V3

The Daikin Valve Actuator is a thermoelectric valve drive for opening and closing valves on heating circuit distributors of concealed heating and cooling systems.

Daikin Altherma HPC

floor standing model

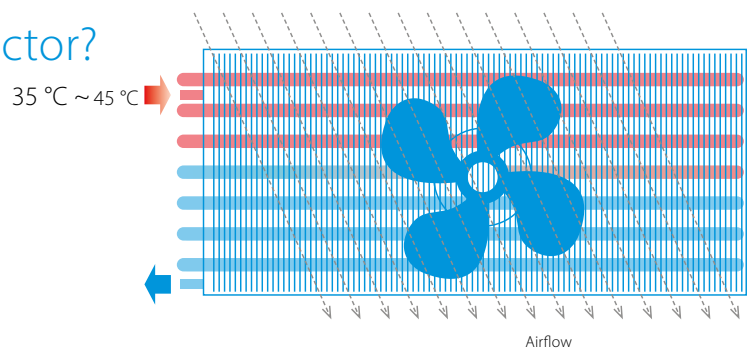


By providing cooling and heating, Daikin Altherma HPC is combinable with underfloor piping and can replace outdated radiators. The unit is available in three models (floor standing, wall mounted and concealed) and fits in any bedrooms or living rooms thanks to its silent operation.

What is a heat pump convector?

The way a heat pump convector works is similar to a radiator, as both use convection to heat a room. A radiator creates convection by running water through its pipes. With a heat pump convector, a radiator's convection process is faster because there is a small fan behind it speeding up the heating cycle.

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



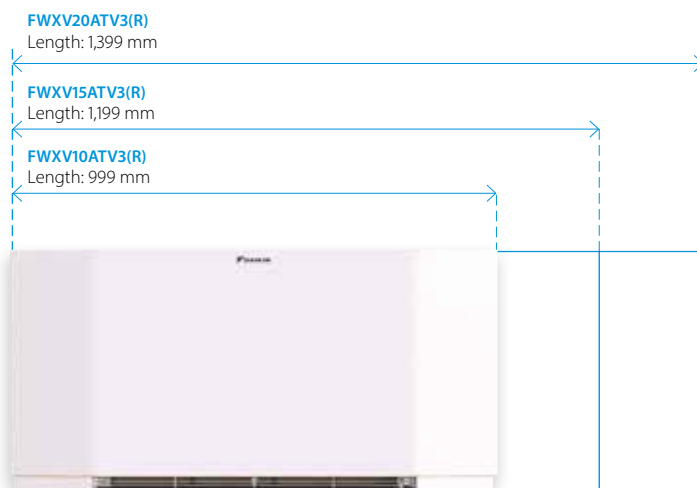
- > Optimized for new build houses
- > Can be selected at low water temperature (35 °C) which makes it ideal for heat pump applications

Slim design reddot winner 2020

The floor standing Daikin Altherma HPC measures 135 mm (depth), this heat pump convector can fit in any house or apartment.

Fast and high capacity

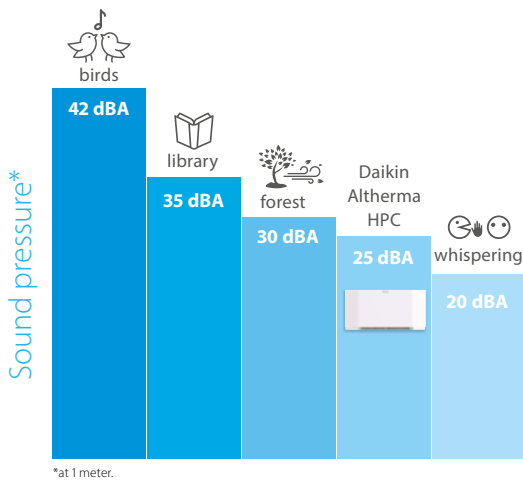
The Daikin Altherma HPC combines the advantages of residential underfloor heating and radiators. It delivers high capacity heating or cooling faster and can be selected at ultra-low temperatures (35/30 °C regime).





Discreet

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



DC Inverter

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



Controllers

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

EKRTCTRL1



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

EKRTCTRL2



- > Built-in controller
- > 4 speed selection

EKWHCTRL1



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

EKPCBO

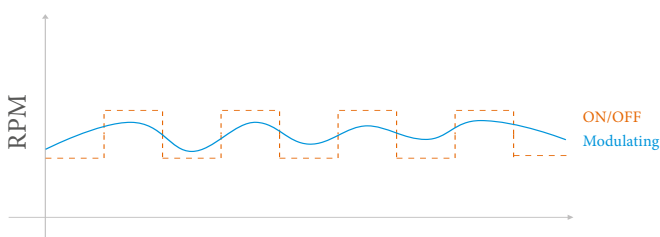


- > Built-in controller
- > ON/OFF
- > In combination with external thermostats



Modulated airflow

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



* Only applicable for EKRTCTRL1, EKWHCTRL1.



Perfect combination

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



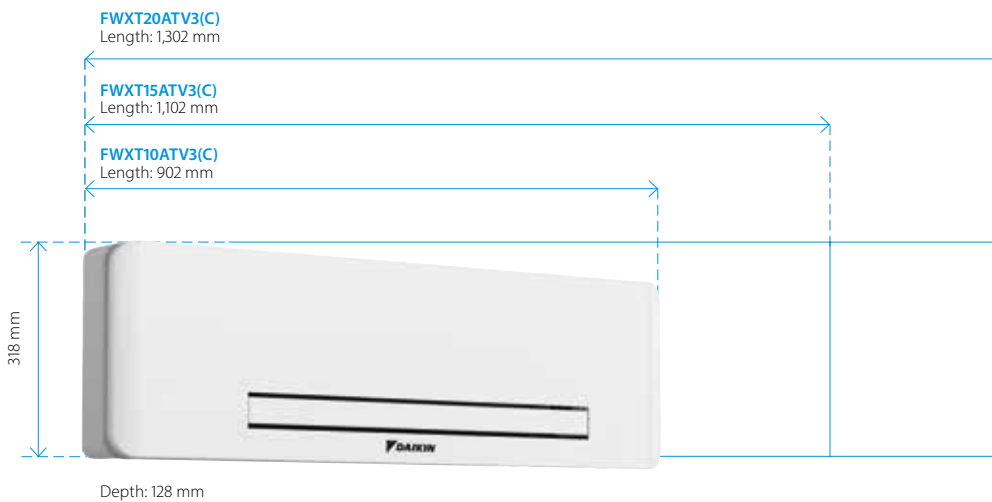


Wall mounted model



Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing including all valves. Its wall hung application saves space on the floor for furnitures and decoration.



Controllers

Choice of:

- › Fully modulating controller allowing remote control of the unit
- › Infrared remote controller and on-board touch panel

EKWHCTRL1

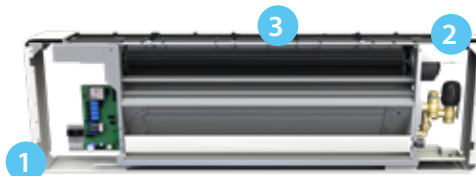


- › Wall controller
- › Fully modulating

Infrared remote controller



Compactness



1 Slim depth

Depth of 129 mm is an outstanding technical achievement that ensures the best fitting into any residential dwelling.

2 More space for valves

A special attention to the easiness of installation: the space for hydraulic valves is wide and easy accessible.

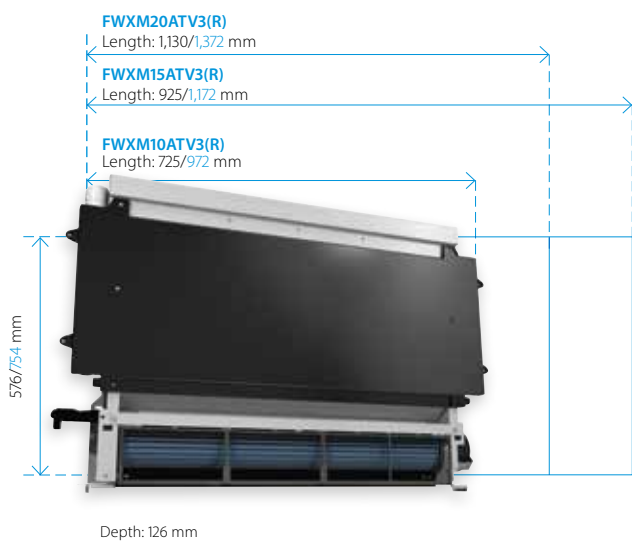
3 Modulated airflow

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

Concealed model

Slim design

Blue dimensions are for the front cover.



Controllers

EKWHCTRL1



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

Flexible installation

Daikin Altherma HPC can be installed in 4 different ways, allowing you to install it in almost all conditions. The unit can be positioned horizontally or vertically. For horizontal, in ceiling installation, 3 different possibilities are offered:

- > Horizontal cover panel and vertical grill for air outlet
- > Horizontal intake grill and vertical grill for air outlet
- > Horizontal in and out grills for air outlet



Indoor unit				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
Cooling capacity at 7/12 °C	Min.		kW	0,66	1,30	1,82	
	Med.		kW	1,36	2,16	2,52	
	Max.		kW	1,77	2,89	3,20	
Sensible cooling capacity at 7/12 °C	Min.		kW	0,39	0,99	1,22	
	Med.		kW	0,98	1,53	1,55	
	Max.		kW	1,33	2,10	1,78	
Heating capacity at 35/30 °C	Min.		kW	0,41	0,45	0,93	
	Med.		kW	0,82	1,29	1,66	
	Max.		kW	1,14	1,73	2,15	
Heating capacity at 45/40 °C	Min.		kW	0,95	1,24	1,90	
	Med.		kW	1,63	2,33	3,05	
	Max.		kW	2,18	3,11	3,88	
Power input	Min.		kW	0,004	0,005	0,010	
	Med.		kW	0,011	0,012	0,016	
	Max.		kW	0,020	0,020	0,030	
Fan speed	Min.		m³/h	118	180	246	
	Med.		m³/h	210	318	410	
	Max.		m³/h	294	438	566	
Casing	Colour			RAL 9003			
	Material			Metal sheet			
Dimensions	Unit	Height	mm		601		
		Width	mm	999	1199	1399	
		Depth	mm	135	135	135	
Packed unit	Packed unit	Height	mm		690		
		Width	mm	1230	1430	1630	
		Depth	mm		210		
Weight	Unit		kg	20	23	26	
	Packed unit		kg	21	24	27	
Packing	Material			Carton			
	Weight		kg	1			
Heat exchanger	Quantity			1	1	1	
	Internal coil volume		l	0,8	1,13	1,46	
		Max Operating pressure		bar	10		
Water circuit	Piping connections diameter		inch	3/4" male			
	Piping material			EUROKONUS			
	Heating - Water pressure drop at 35/30 °C	Min.		kPa	0,3	2,0	1,2
		Med.		kPa	1,3	7,5	4,0
		Max.		kPa	2,4	12,3	8,0
	Heating - Water pressure drop at 45/40 °C	Min.		kPa	1,3	8,6	3,8
		Med.		kPa	4,2	3,3	11,2
		Max.		kPa	7,2	11,5	21,3
	Cooling - Water pressure drop at 7/12 °C	Min.		kPa	1,2	4,3	2,1
		Med.		kPa	2,8	19,3	13,1
		Max.		kPa	2,9	27,0	24,0
	Heating - Water flow rate at 35/30 °C	Min.		kg/h	69,9	73,6	160,2
		Med.		kg/h	141,4	221,1	285,3
		Max.		kg/h	195,2	297,2	369,9
	Heating - Water flow rate at 45/40 °C	Min.		kg/h	163,5	212,5	327,0
Med.			kg/h	280,3	401,1	524,6	
Max.			kg/h	374,1	534,5	667,5	
Cooling - Water flow rate at 7/12 °C	Min.		kg/h	113,5	223,7	313,0	
	Med.		kg/h	234,1	371,7	433,6	
	Max.		kg/h	303,6	496,6	550,6	
Pressure	Heating/Max.		bar	10	10	10	
	Super silent		dBA	29	31	32	
Sound power level	Min.		dBA	34	35	35	
	Med.		dBA	55	57	58	
	Max.		dBA	42	44	45	
Sound pressure level	Super silent		dBA	20	22	23	
	Min.		dBA	25	26	26	
	Max.		dBA	42	44	45	
Operation range	Heating	Water side	Min.	°C	30		
			Max.	°C	85		
	Cooling	Water side	Min.	°C	5		
			Max.	°C	18		
	Indoor installation	Ambient	Min.	°CDB	0		
			Max.	°CDB	45		
Control systems	Infrared remote control			no			
	On board control			yes			
Electrical specifications				FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)	
Power supply	Phase			1			
	Frequency		Hz	50			
	Voltage		V	230			
Electrical power consumption	Max.		W	19	20	29	
	Standby		W	3	4	5	
Current	Maximum running current		A	0,16	0,16	0,26	

Indoor unit				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Cooling capacity at 7/12 °C	Min.		kW	0,75	1,15	1,32
	Med.		kW	1,36	2,08	2,39
	Max.		kW	2,12	2,81	3,30
Sensible cooling capacity at 7/12 °C	Min.		kW	0,59	0,83	1,02
	Med.		kW	1,07	1,51	1,84
	Max.		kW	1,72	2,11	2,71
Heating capacity at 35/30 °C	Min.		kW	0,41	0,45	0,93
	Med.		kW	0,82	1,29	1,66
	Max.		kW	1,14	1,73	2,15
Heating capacity at 45/40 °C	Min.		kW	0,82	1,20	1,47
	Med.		kW	1,53	2,16	2,59
	Max.		kW	2,21	3,02	3,81
Power input	Min.		kW	0,004	0,005	0,006
	Med.		kW	0,008	0,011	0,011
	Max.		kW	0,019	0,020	0,029
Fan speed	Min.		m³/h	118	180	246
	Med.		m³/h	210	318	410
	Max.		m³/h	294	438	566
Casing	Material			No casing		
Dimensions	Unit	Height	mm	576		
		Width	mm	725	925	1125
		Depth	mm	126	126	126
Packed unit		Height	mm	690		
		Width	mm	830	1030	1230
		Depth	mm	210		
Weight	Unit		kg	12	15	18
	Packed unit		kg	13	16	19
Packing	Material			Carton		
Heat exchanger	Quantity			1	1	1
	Internal coil volume		l	0,8	1,13	1,46
		Max Operating pressure		bar	10	
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,3	2,0	1,2
		Med.	kPa	1,3	7,5	4,0
		Max.	kPa	2,4	12,3	8,0
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,3	8,6	3,8
		Med.	kPa	4,2	3,3	11,2
		Max.	kPa	7,2	11,5	21,3
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,2	4,3	2,1
		Med.	kPa	2,8	19,3	13,1
		Max.	kPa	2,9	27,0	24,0
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	69,9	73,6	160,2
		Med.	kg/h	141,4	221,1	285,3
		Max.	kg/h	195,2	297,2	369,9
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	163,5	212,5	327,0
Med.		kg/h	280,3	401,1	524,6	
Max.		kg/h	374,1	534,5	667,5	
Cooling - Water flow rate at 7/12 °C	Min.	kg/h	113,5	223,7	313,0	
	Med.	kg/h	234,1	371,7	433,6	
	Max.	kg/h	303,6	496,6	550,6	
	Pressure	Heating/Max.	bar	10	10	10
Sound power level	Super silent		dBA	29	31	32
	Min.		dBA	35	35	36
	Max.		dBA	53	54	55
Sound pressure level	Super silent		dBA	20	22	23
	Min.		dBA	25	26	26
	Max.		dBA	42	44	46
Operation range	Heating	Water side	Min.	°C	30	
			Max.	°C.	85	
	Cooling	Water side	Min.	°C.	5	
			Max.	°C	18	
	Indoor installation	Ambient	Min.	°CDB	0	
			Max.	°CDB	45	
Control systems	Infrared remote control			no		
	On board control			no		
Electrical specifications				FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)
Power supply	Phase			1		
	Frequency		Hz	50		
	Voltage		V	230		
Electrical power consumption	Max.		W	19	20	29
	Standby		W	3	4	5
Current	Maximum running current		A	0,16	0,16	0,26

Indoor unit				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)
Cooling capacity at 7/12 °C	Min.		kW	0,53	0,65	0,74
	Med.		kW	0,98	1,20	1,35
	Max.		kW	1,21	1,62	2,12
Sensible cooling capacity at 7/12 °C	Min.		kW	0,13	0,15	0,36
	Med.		kW	0,40	0,56	0,70
	Max.		kW	1,01	1,44	1,99
Heating capacity at 35/30 °C	Min.		kW	0,29	0,23	0,47
	Med.		kW	0,48	0,69	1,08
	Max.		kW	0,66	1,00	1,44
Heating capacity at 45/40 °C	Min.		kW	0,61	0,85	1,08
	Med.		kW	1,12	1,51	1,95
	Max.		kW	1,51	2,03	2,62
Power input	Min.		kW	0,004	0,005	0,006
	Max.		kW	0,019	0,020	0,029
Fan speed	Min.		m³/h	84	124	138
	Med.		m³/h	155	229	283
	Max.		m³/h	228	331	440
Casing	Colour			RAL 9003		
	Material			Metal sheet		
Dimensions	Unit	Height	mm	335		
		Width	mm	902	1100	1300
		Depth	mm	128		
	Packed unit	Height	mm	490		
Width		mm	1030	1230	1430	
Depth		mm	210			
Weight	Unit		kg	14	16	19
	Packed unit		kg	15	17	20
Packing	Material			Carton		
	Weight		kg	1		
Heat exchanger	Quantity			1		
	Internal coil volume		l	0,54	0,74	0,93
		Max Operating pressure		bar	10	
Water circuit	Piping connections diameter		inch	3/4" male		
	Piping material			EUROKONUS		
	Heating - Water pressure drop at 35/30 °C	Min.	kPa	0,2	1,9	0,3
		Med.	kPa	0,9	2,9	1,4
		Max.	kPa	1,6	3,3	2,3
	Heating - Water pressure drop at 45/40 °C	Min.	kPa	1,1	2,8	1,1
		Med.	kPa	3,1	3,5	4,1
		Max.	kPa	5,4	4,0	6,6
	Cooling - Water pressure drop at 7/12 °C	Min.	kPa	1,1	3,9	1,3
		Med.	kPa	3,0	4,8	4,2
		Max.	kPa	5,2	5,7	6,9
	Heating - Water flow rate at 35/30 °C	Min.	kg/h	39,3	39,0	80,8
		Med.	kg/h	81,8	119,4	185,4
		Max.	kg/h	114,0	172,4	247,8
	Heating - Water flow rate at 45/40 °C	Min.	kg/h	91,9	112,6	164,8
Med.		kg/h	162,0	216,6	341,0	
Max.		kg/h	218,4	310,0	447,2	
Cooling - Water flow rate at 7/12 °C	Min.	kg/h	82,1	98,9	156,5	
	Med.	kg/h	138,1	177,4	300,6	
	Max.	kg/h	184,4	283,0	396,8	
Pressure	Heating/Max.		bar	10	10	
Sound power level	Min.		dBA	35	36	36
	Max.		dBA	53	54	55
Sound pressure level	Min.		dBA	25	25	26
	Max.		dBA	40	42	43
Operation range	Heating	Water side	Min.	°C	30	
			Max.	°C	85	
	Cooling	Water side	Min.	°C	5	
			Max.	°C	18	
	Indoor installation	Ambient	Min.	°CDB	0	
			Max.	°CDB	45	
Electrical specifications				FWXT10ATV3(C)	FWXT15ATV3(C)	FWXT20ATV3(C)
Power supply	Phase			1		
	Frequency		Hz	50		
	Voltage		V	230		
Electrical power consumption	Max.		W	17,6	19,8	26,5
	Standby		W	5	5	5,8
Current	Maximum running current		A	0,16		

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

Material name	Description	Picture					
EKRCTRL1	On board electronic control SMART TOUCH with PID full modulating fan and thermostat		Opt				
EKRCTRL2	On board electronic control SMART TOUCH 4 speeds with thermostat		Opt				
EKPCBO	On board 4 speeds control switch to be combine with Daikin combinable thermostats		Opt				
EKWHCTRL0	On board controller for EKWHCTRL1		Opt	Opt	Opt	Opt	
EKWHCTRL1	SMART LCD wall controller with temperature probe, white casing		Opt	Opt	Opt	Opt	Opt
EKFA	Aestetical feet		Opt				
EK2VK0	Motorized 2-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT2VK0	Motorized 2-way valve (FWXT)						Opt
EK3VK1	Motorized 3-way valve (FWXV/M)		Opt	Opt	Opt	Opt	
EKT3VK1	Motorized 3-way valve (FWXT)						Opt
EKEUR90	L-bow 90 °C		Opt	Opt	Opt	Opt	
EKDIST	Extension piece		Opt	Opt	Opt	Opt	
EKM10COH	Condensate collector tray for horizontal installation		FWXV10ATV3(R)				
EKM15COH			FWXV15ATV3(R)				
EKM20COH			FWXV20ATV3(R)				
EKM10CS	Metal casing			Opt			
EKM15CS				Opt			
EKM20CS					Opt		
EKM10CH	Front cover for ceiling installation			Opt			
EKM15CH					Opt		
EKM20CH						Opt	
EKM10CV	Front cover for wall installation			Opt			
EKM15CV					Opt		
EKM20CV						Opt	
EKM10DH	Air intake fitting			Opt			
EKM15DH					Opt		
EKM20DH						Opt	
EKM10D90	90 °C exhaust bend (Horizontal)			Opt			
EKM15D90					Opt		
EKM20D90						Opt	
EKM10DT	Telescopic air flow duct					Opt	
EKM15DT					Opt		
EKM20DT						Opt	
EKM10IS	Aluminum air intake grill with straight airflow			Opt			
EKM15IS					Opt		
EKM20IS						Opt	
EKM10SV	Straight airflow vent			Opt			
EKM15SV					Opt		
EKM20SV						Opt	
EKM10IC	Aluminum air intake grill with curved airflow			Opt			
EKM15IC					Opt		
EKM20IC						Opt	
EKM10CA	Aluminum air outlet grill with curved airflow					Opt	
EKM15CA						Opt	
EKM20CA						Opt	

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

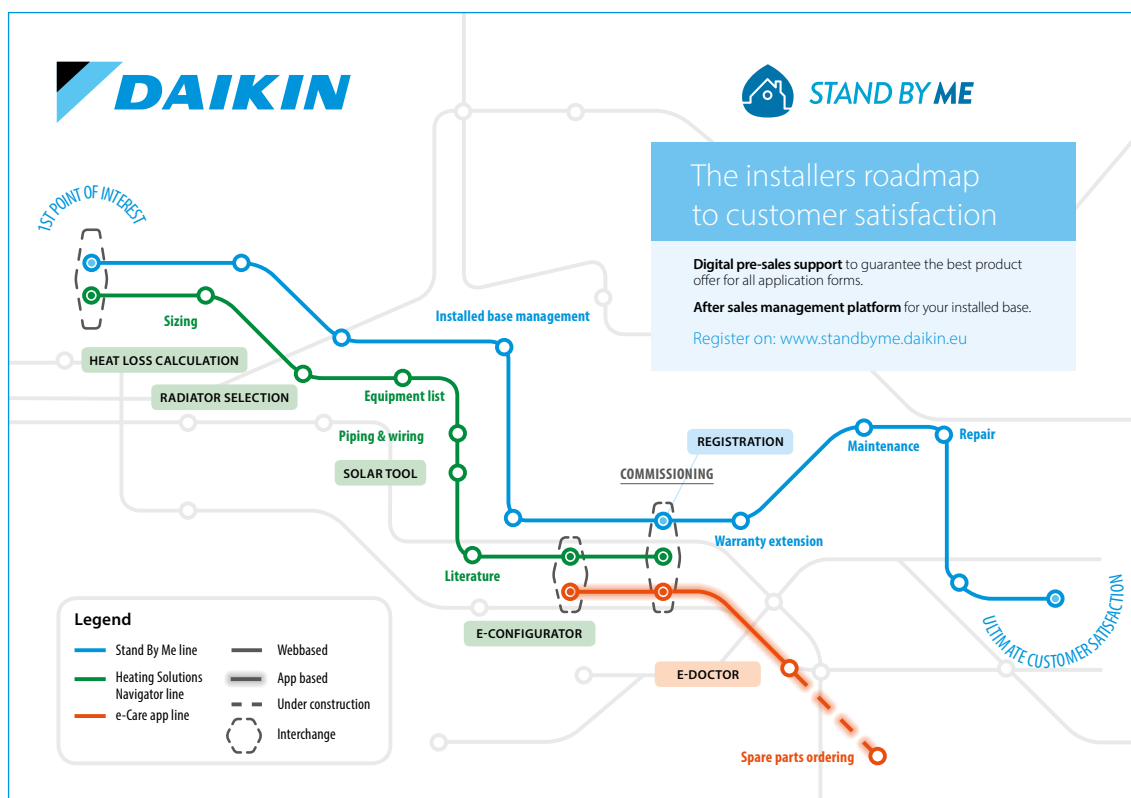
For a small fee, customers can extend the warranty. Contact your local Daikin branch to have more information about the specific offer in your country.

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



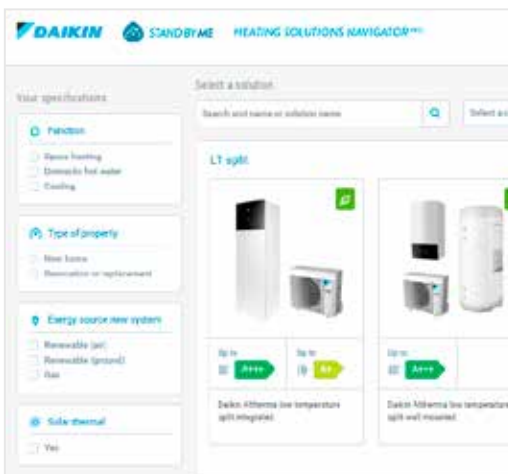


Heating Solutions Navigator



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 troubleshooting 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.



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.



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.



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

EQUIPMENT LIST



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.

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

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

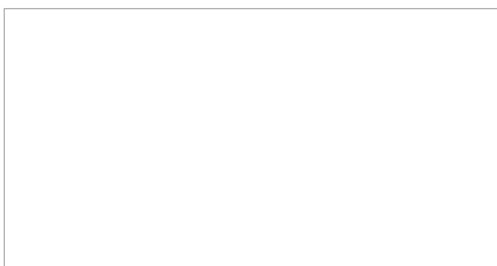


*Stand By Me, a journey towards
customer satisfaction*

A series of horizontal dashed lines for writing notes.



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