





The power pact



E(B/D)LA-D series







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The Daikin Altherma 3 M is Daikin's first third-generation monobloc. This new edition features a brand-new design and runs on refrigerant R-32.

Improved compact design

A redesigned casing

A black horizontal front grille hides the single fan, reducing the perception of sound produced by the unit.

The light grey casing reflects the installation space to help the unit blend into any environment.

A single fan for high-capacity units

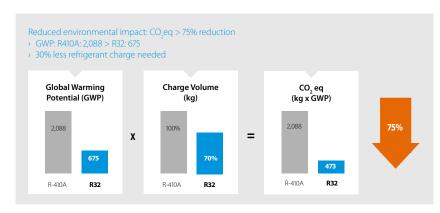
Daikin engineers replaced the double fan with one larger fan and optimised its shape to lower the operational sound and improve air circulation.







Daikin is a pioneer in launching heat pumps equipped with R-32. With a lower Global Warming Potential (GWP), the R-32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO_2 emissions. Easy to recover and reuse, R-32 is the perfect solution for attaining the new European CO_2 emission targets.

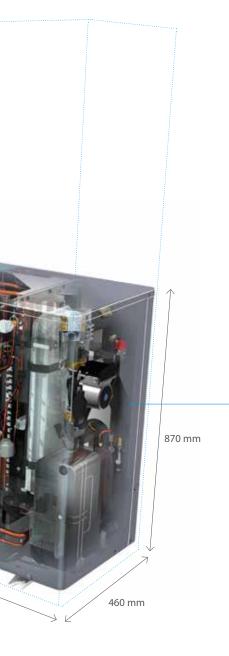


R-32 BLUEVOLUTION

Ideal for small spaces

The monobloc is the ideal solution for places that have limitations on space. No additional indoor unit is required, and the monobloc can fit right under a window to save outdoor space.





Fully connected

The Daikin Altherma 3 M finds its power in Daikin Altherma total solution, including controls, heat collectors and heat emitters.



Daikin Residential Controller App, with voice control

- > Control the heating system from home or remotely via smartphone
- > Control the heating system with voice commands
- > Integrate with Google Assistant and Amazon Alexa
- > Other features include:
- Scheduling for daily use or holiday mode
- Controlling multiple units/performance boosting
- Monitoring energy consumption



Cloud ready with WLAN option



Madoka: a user-friendly wired room thermostat

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





Heating and cooling emitters

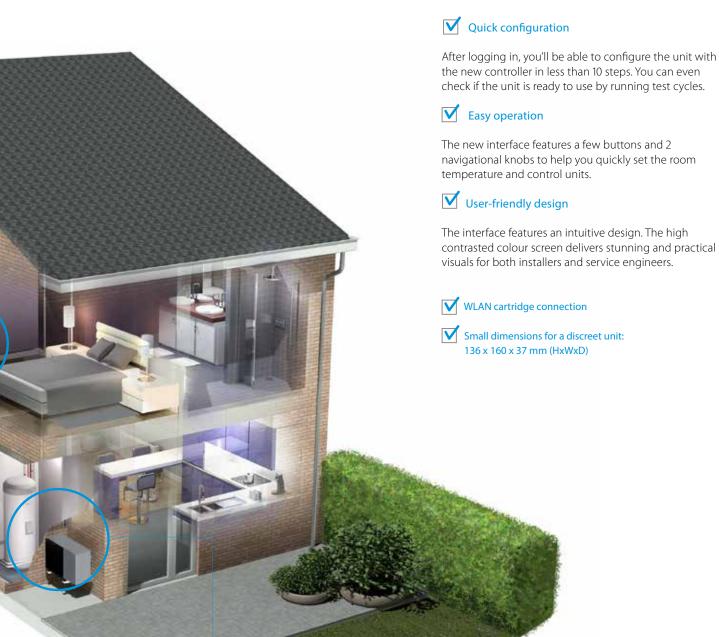
As a mid-temperature heat pump, the Daikin Altherma 3 M works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.

NEW

Man-Machine Interface (MMI)

Inspired by the award-winning design of the Daikin Altherma 3 indoor units, Daikin also upgraded this controller to deliver an even more user-friendly interface.



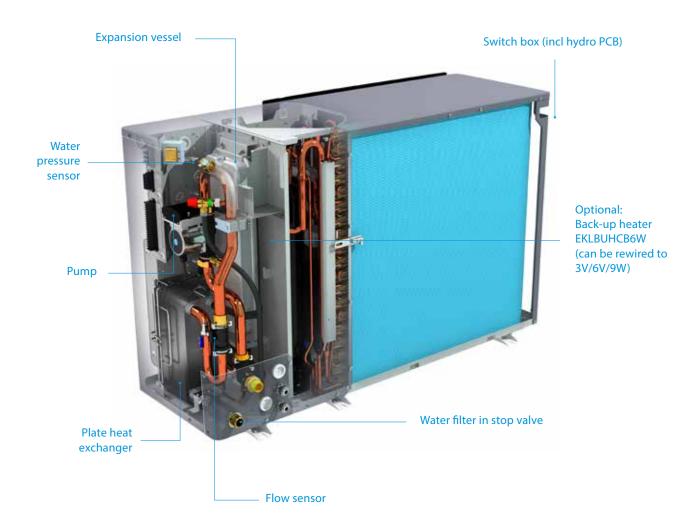


Domestic hot water production

The monobloc combines with stainless steel tanks (EKHWS-D), thermal stores and panels (EKHWP) to provide domestic hot water quickly.

Straightforward installation & maintenance

The Daikin Altherma 3 M attains its power from within by combining all the hydraulic components into one unit.



Hydraulic components included:

- > Circulation pump
- > Expansion vessel
- > Minimal wiring

Refrigerant circuit in the unit

- > No refrigerant connection inside the house
- > Only requires water pipe connections at the rear

Comfort and premium performance

The Daikin Altherma 3 M offers enhanced performance and a broad product lineup.

Extended product range

- > Heating only models (EDLA*)
- > Reversible models providing cooling (EBLA*)
- > One-phase models (EB/DLA-DV*)
- > Three-phase models (EB/DLA-DW*)
- > Back-up heater models (EB/DLA-D3V/D3W)
- > Back-up heater less models (EB/DLA-D/DW)
- > All available in 9, 11, 14 and 16 kW

Improved performance

- > Up to A***
- > Operation down to -25 °C outdoor temperature
- > Guaranteed heating capacities down to -20 °C
- > Delivers LWT 60 °C at -7 °C
- Suitable for renovations, replacement, and large new buildings

Flexibility in domestic hot water production

Combinable with stainless steel domestic hot water tank (EKHWS(U)-D or ECH2O thermal store to get domestic hot water with support from the sun.

Perfect match with any heat emitter

Combine with underfloor heating applications or with Daikin Altherma HPC heat pump convectors.







Daikin Altherma 3 M

Air-to-water monobloc system that provides **heating only** and is ideal for indoor spaces that have limited room

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













Single Unit				EDLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3/D(3)W1			
Heating capacity	Nom.			kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)	16.0 (1) / 16.0 (2)			
Power input	Heating	Nom.		kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)	3.53 (1) / 4.56 (2)			
COP	COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)	4.53 (1) / 3.51 (2)			
	Average climate water		ns (Seasonal space heating efficiency)		133	130	132	130			
		General	SCOP		3.39	3.32	3.37	3.33			
Space heating	outlet 55 ℃		Seasonal space heati eff. class	ing		A	++				
•	Average		ns (Seasonal space heating efficiency)		186		182				
	climate water	General	SCOP		4.72 4.64 4.62			62			
	outlet 35 °C		Seasonal space heating eff. class		A+++						
Casing	asing Colour				Silver						
	Material					Polyester painted g	alvanised steel plate				
Dimensions	Unit	HeightxWid	lthxDepth	mm	870 x 1,380 x 460						
Weight	Unit			kg	DV3/DW1: 147, D3V3/D3W1: 149						
Compressor	Quantity				1						
	Type				Hermetically sealed swing compressor						
Operation range	Heating	Ambient	Min.~Max.	°CWB	DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35						
	ricating	Water side	Min.~Max.	°℃		DV3/DW1: 9 ~ 60, I	D3V3/D3W1: 15 ~ 60				
Operation range	Domestic	Ambient	Min.~Max.	°CDB		-25	~ 35				
Operation range	hot water	Water side	Min.~Max.	°℃		25	~ 55				
	Type				R-32						
	GWP					67	75.0				
Refrigerant	Charge			kg		3.	80				
	Charge			TCO2Eq	2.57						
	Control				Expansion valve						
Sound power level (3)	Heating Nom.		dBA	62							
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230 - W1/3~/50/400						
Current	Recommend	ded fuses		A		32	/16				

(1) Ta DB/WB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) | (2) Ta DB/WB 7 °C/6 °C - LWC 45 °C (DT = 5 °C) | (3) According to ENI4825 This product contains fluorinated greenhouse gases.





Daikin Altherma 3 M

Reversible air-to-water monobloc system that provides **heating and cooling**, and is ideal for indoor spaces that have limited room

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













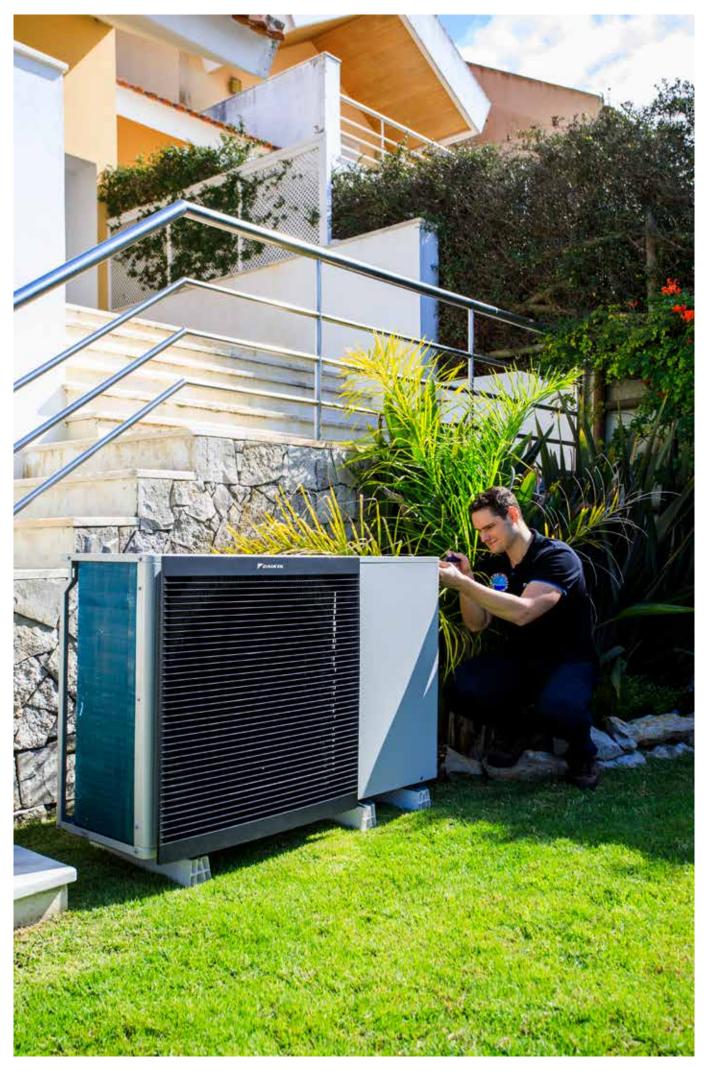
Single Unit				EBLA	09D(3)V3/D(3)W1	11D(3)V3/D(3)W1	14D(3)V3/D(3)W1	16D(3)V3/D(3)W1		
Heating capacity	Nom.			kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)	16.0 (1) / 16.0 (2)		
Power input	Heating	Nom.		kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)	3.53 (1) / 4.56 (2)		
COP					4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)	4.53 (1) / 3.51 (2)		
Cooling capacity	Nom. kW			kW	9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)	14.0 (3) / 15.3 (4)		
Power input	Cooling	Nom.		kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)	4.58 (3) / 3.24 (4)		
EER					3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)	3.06 (3) / 4.74 (4)		
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)		
	Average		ns (Seasonal space heating efficiency)		135	132	134	132		
	climate water		SCOP		3.44	3.37	3.42	3.37		
Space heating	outlet 55 ℃		Seasonal space he eff. class			A	++			
·	Average		ns (Seasonal space heating efficiency)		190	186		85		
	climate water	water	water	General	SCOP		4.82	4.73	4.70	4.69
	outlet 35 ℃		Seasonal space he eff. class	ating	A+++					
Casing	Colour				Silver					
	Material				Polyester painted galvanised steel plate					
Dimensions	Unit	HeightxWic	thxDepth	mm	870 x 1,380 x 460					
Weight	Unit			kg	DV3/DW1: 147, D3V3/D3W1: 149					
Compressor	Quantity				1					
	Туре				Hermetically sealed swing compressor					
Operation range	Heating	Ambient	Min.~Max.	°CWB			D3V3/D3W1: -25 ~ 35			
	i icatii ig	Water side	Min.~Max.	°℃			D3V3/D3W1: 15 ~ 60			
Operation range	Cooling	Ambient	Min.~Max.	°CDB			~ 43			
		Water side	Min.~Max.	°℃			- 22			
Operation range	Domestic	Ambient	Min.~Max.	°CDB			~ 35			
	hot water	Water side	Min.~Max.	°℃	25 ~ 55					
	Type						-32			
	GWP						5.0			
Refrigerant	Charge			kg			80			
Charge			TCO2Eq			57				
	Control				Expansion valve					
Sound power level (5)	Heating	Nom.		dBA	62					
Power supply	Name/Phase/Frequency/Voltage Hz/V				V3/1~/50/230 - W1/3~/50/400					
Current	Recommend	ded fuses		A		32	/16			

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

Options

				NO	BUH	В	JH
				H/O	REV	H/O	REV
				EDLA- DV3/W1	EBLA- DV3/W1	EBLA- D3V3/3W1	EBLA- D3V3/3W1
		Туре	Material name	:	•		·
		Madoka, remote room thermostat	BRC1HHDW/S/K	•	•	•	•
	TOWNS TRANSPORT IN A	WLAN cartridge	BRP069A78	•	•	•	•
Controllers	1-	Room thermostat (wired)	EKRTWA	•	•	•	•
		Room thermostat (wireless)	EKRTR1	•	•	•	•
	9	External sensor	EKRTETS	•	•	•	•
Adantors	Francis G	Demand PCB	EKRP1AHTA	•	•	•	•
Adapters		Digital I/O PCB	EKRP1HBAA	•	•	•	•
		Bi-Zone kit (watts kit)	BZKA7V3	•	•	•	•
		Anti-freeze valve	AFVALVE1	•	•	•	•
		Flow switch	EKFLSW1	• (1)	• (1)	• (1)	• (1)
Installation		Bypass kit	EKMBHBP1		•		
		BUH-kit	EKLBUHCB6W	•	•		
		Third party tank kit	EKHY3PART	o (2)	o (2)	o (2)	o (2)
		Third party tank kit	EKHY3PART2	(3)	o (3)	• (3)	o (3)
Sensors		Remote indoor sensor	KRCS01-1	•	•	•	•
50.15015	S	Remote outdoor sensor	EKRSCA-1	•	•	•	•
Others		PC USB cable	EKPCCAB4	•	•	•	•

⁽¹⁾ Mandatory when glycol is used. (2) To use when thermistor can be inserted in the tank. (3) To use when thermistor cannot be inserted in the tank.





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

Whether your customer only needs hot water or is interested in using solar technologies, Daikin offers a range of reliable solutions that use energy more efficiently and provide maximum comfort.



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: possible to combine 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

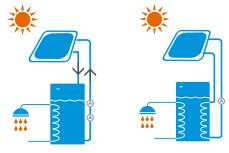
Built for small and large homes, customers can choose between a pressureless and a pressurised hot water system.

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

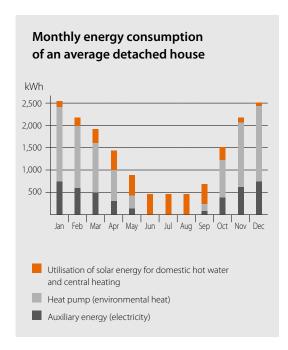
Pressurised solar system

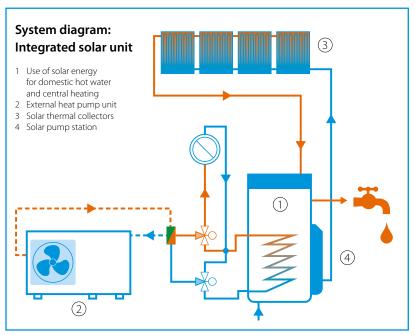
Pressureless (drain-back) solar system

- > 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







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: possible to combine 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 litres









Accessory			EKHWP	300B	500B	300PB	500PB	54419B			
<i>-</i> .	Colour				Traffic whi	ite (RAL9016) / Dark grey	(RAL7011)				
Casing	Material	Material			Impact resistant polypropylene						
Dimensions	Unit	Width	mm	595	790	595	79	90			
Dimensions	Unit	Depth	mm	615	790	615	79	90			
		Height	mm	1,646	1,658	1,646	1,6	58			
Weight	Unit	Empty	kg	53	76	56	82	71			
	Water volume I			294	477	294	4.	77			
	Material					Polypropylene					
	Maximum wa	ter temperature	°C			85					
Tank 🌑	Insulation	Heat loss	kWh/24h	1.5	1.7	1.5	1.	7			
-	Energy efficiency class			В							
	Standing heat loss W			64	72	64	72				
	Storage volume			290	393	290	393				
		Quantity		1							
		Tube material			S	tainless steel (DIN 1.4404)					
	Domestic hot water	Face area	m ²	5.6	5.8	5.6	5.9	5.8			
	not water	Internal coil volume	1	27.8	28.9	27.8	29	28.9			
		Operating pressure	bar			6					
		Quantity		1							
		Tube material			S	tainless steel (DIN 1.4404)					
Heat exchanger	Charging	Face area	m ²	2.66	3.7	2.66	3.7	1.95			
		Internal coil volume	1	12.9	18.1	12.9	18.1	10			
		Operating pressure	bar			3					
		Tube material		-	Stainless steel (DIN 1.4404)	-	Stainle (DIN 1				
	Auxiliary solar heating	Face area	m ²	-	0.76	-	0.	76			
	Joidi Heating	Internal coil volume	I	-	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









Accessory			EKHWS(U)	150D3V3	180D3V3	200D3V3	250D3V3	300D3V3			
Carlan	Colour			Neutral white							
Casing	Material			Epoxy coated steel / Epoxy-coated mild steel							
Dimensions	Unit	Height Tank	mm	1,000	1,164	1,264	1,535	1,745			
Weight	Unit	Empty	kg	45	50	53	58	63			
	Water volur	ne	1	145	174	192	242	292			
	Material					Stainless steel (EN 1.4521)					
_	Maximum water temperature		°C			75	75				
Tank 🌄	Insulation	Heat loss	kWh/24h	1.1	1.2	1.3	1.4	1.6			
ank 😽	Energy efficiency class			В							
	Standing heat loss		W	45	50	55	60	68			
	Storage vol	ume	1	145	174	192	242	292			
		Quantity		1							
		Tube material				Stainless steel (EN 1.4521)					
Heat exchanger	Domestic hot water	Face area	m ²	1.050	1.400		1.800				
	not water	Internal coil volume		4.9	6.5		8.2				
		Operating pressure	bar			10					
Booster heater	Capacity k			3							
Power supply	Phase/Frequ	uency/Voltage	Hz/V			1~/50/230					

Madoka

The beauty of simplicity







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 unit measuring only 85 x 85 mm





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

Using the latest software for the Madoka is strongly recommended. To update the software or check if updates are available, you'll need a mobile device and the Madoka Assistant App. This app is available on Google Play and the Apple Store.











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



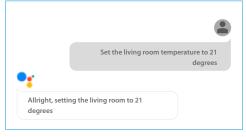
NEW

Voice control

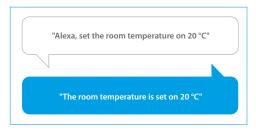
To provide even more comfort and ease, the Daikin Residential Controller App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

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





Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa







Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

✓ Schedule room temperature and operation mode

Enable holiday mode to save costs



Control

Customise the system to fit your lifestyle and year-round comfort levels.

✓ Change room and domestic hot water temperature

Turn on powerful mode to boost hot water production



Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

✓ Check the status of the heating system

Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.

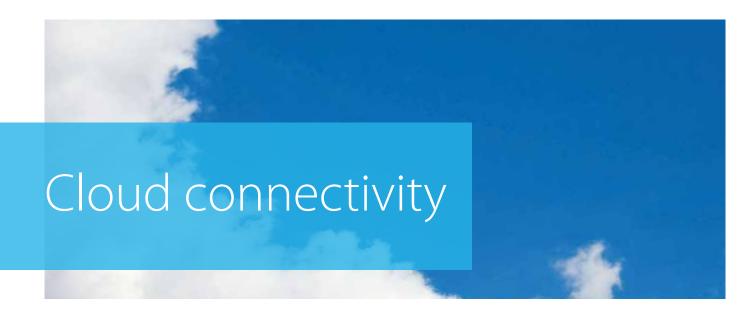






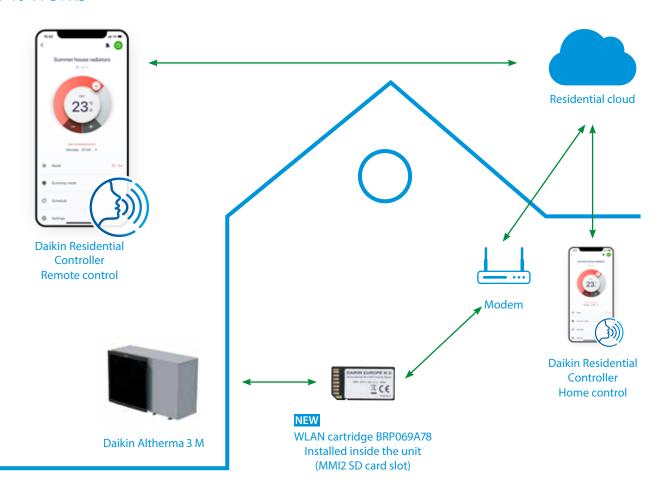






Customers can control their unit from anywhere with the Daikin Residential Controller App. This app is available via the cloud and delivers the best comfort for space heating, cooling and domestic hot water.

How it works



Benefits

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

Adjust the temperature of individual rooms





General features

- > Improve a home's energy efficiency
- > Universally deployable and scalable
- > Easy and intuitive installation, operation and maintenance
- > Cost-effective and convenient

How it works

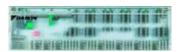
With the help of an electronic room-by-room control system, users can regulate the temperature of each room individually.

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

Based on a continuous comparison of the target and current temperatures, the room temperature control system opens and closes the individual heating circuits through electrical valve actuators.

System components

Base station EKWUFHTA1V3



The Daikin Wired Base Station is the central connection unit for room-by-room temperature control. It changes the surface temperature by adjusting heating and cooling systems.



Wired analogue thermostat EKWCTRAN1V3

The Wired Analogue Thermostat is for customers that prefer to adjust the room temperature without the additional features, such as scheduling or performance boosts.



Wired digital thermostat EKWCTRDI1V3

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 EKWCVATR1V3

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



The Daikin Altherma HPC provides cooling and heating and is combinable with underfloor piping. The unit is available in 3 models: floor standing, wall mounted and concealed. Its quiet operation makes it an ideal choice for bedroom and or living rooms.

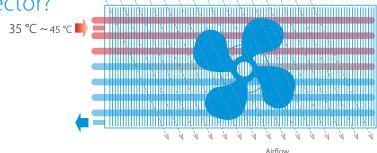


What is a heat pump convector?

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's 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.

A lower water temperature ensures more energy savings in the long run.



- > Optimal for newly built homes
- > The low water temperature (35 °C) means this unit is ideal for heat pump applications



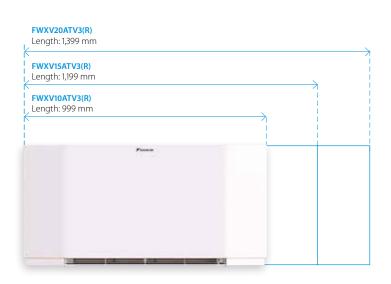
Slim design

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



Fast and high capacity

The Daikin Altherma HPC delivers high-capacity heating or cooling faster and can be selected at ultra-low temperatures (35/30 °C).



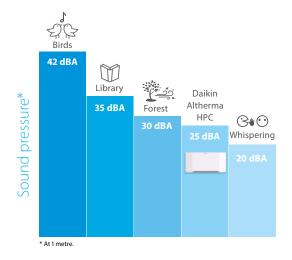






Discreet

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).



Controllers

> Built-in controller

> Fully modulating

Wall controller

Combinable

> Fully modulating

with EKWHCTRL0

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



EKRTCTRL2

- > Built-in controller
 > 4-speed selection
- › Multicolour display

ЕКРСВО

- > Built-in controller > ON/OFF
 - Combinable 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.







Slim design

Daikin Altherma HPC is a compact unit made of a design metal casing with built-in valves. The wall-hung application saves floor space for furniture and decor.



Depth: 128 mm



Controllers

Choice of:

- > Fully modulating controller allowing remote control of the unit
- > Infrared remote controller and on-board touch panel (C and CL models).

EKWHCTRL1



- > Wall controller
- > Fully modulating

Infrared remote controller



Compactness



- Slim depth
 - Depth of 129 mm is an outstanding technical achievement that ensures the unit fits well with any residential dwelling.
- More space for valves

The wide and accessible valves ensure an easy installation process. .



Modulated airflow

When there's a low heating demand, the unit modulates its airflow to slow down the fan, and in the process, lowers the operational sound.

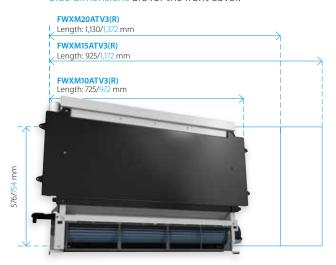
A standard ON/OFF fan running simultaneously at full speed can increase sound pressure.





Slim design

Blue dimensions are for the front cover.



Depth: 126 mm



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. There are 3 different horizontal options:

- > Horizontal cover panel and vertical grille for air outlet
- > Horizontal intake grille and vertical grille for air outlet
- > Horizontal in and out grilles for air outlet



Controllers

EKWHCTRL1



- > Wall controller
- > Fully modulating
- > Combinable with EKWHCTRL0







Indoor unit					FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)		
Cooling capacity	Min.			kW	0,66	1,30	1,82		
nt 7/12 °C	Med.			kW	1,36	2,16	2,52		
	Max.			kW	1,77	2,89	3,20		
ensible cooling	Min.			kW	0,39	0,99	1,22		
apacity at 7/12 °C	Med.			kW	0,98	1,53	1,55		
	Max.			kW	1,33	2,10	1,78		
I	Min.			kW	0,41	0,45	0,93		
Heating capacity It 35/30 °C	Med.			kW	0,82	1,29	1,66		
(33/30 C	Max.			kW	1,14	1,73	2,15		
	Min.			kW	0,95	1,24	1,90		
leating capacity t 45/40 °C	Med.			kW	1,63	2,33	3,05		
1 43/40 C	Max.			kW	2,18	3,11	3,88		
	Min.			kW	0,004	0,005	0,010		
ower input	Med.			kW	0,011	0,012	0,016		
	Max.			kW	0,020	0,020	0,030		
	Min.			m³/h	118	180	246		
an speed	Med.			m³/h	210	318	410		
ан эреси	Max.			m³/h	294	438	566		
	Colour			111 / 11	294	RAL 9003	300		
asing									
	Material					Metal sheet			
	ļ	Height		mm		601			
imensions	Unit	Width		mm	999	1199	1399		
		Depth		mm	135	135	135		
		Height		mm		690			
	Packed unit	Width		mm	1230	1430	1630		
		Depth		mm		210			
Veight	Unit			kg	20	23	26		
	Packed unit			kg	21	24	27		
acking	Material					Carton			
~	Weight	İ		kg		1			
	Quantity			9	1	1	1		
Heat exchanger	,			1	0,8	1,13	1,46		
. 5.	Internal coil volume	Max Operating	proceuro	bar	10				
	Pining connections diameter	Iviax Operating	piessuie	inch	3/4" male				
	Piping connections diameter			IIICII					
	Piping material	1				EUROKONUS			
	Heating - Water pressure drop	Min.		kPa	0,3	2,0	1,2		
	at 35/30 °C	Med.		kPa	1,3	7,5	4,0		
		Max.		kPa	2,4	12,3	8,0		
	Heating Water proceure drop	Min.		kPa	1,3	8,6	3,8		
	at 43/40 C	Med.		kPa	4,2	3,3	11,2		
		Max.		kPa	7,2	11,5	21,3		
		Min.		kPa	1,2	4,3	2,1		
	Cooling - Water pressure drop	Med.		kPa	2,8	19,3	13,1		
Vater circuit	at 7/12 °C	Max.		kPa	2,9	27,0	24,0		
		Min.		kg/h	69,9	73,6	160,2		
	Heating - Water flow rate at 35/30 ℃	Med.		kg/h	141,4	221,1	285,3		
	at 35/30 °C	Max.		kg/h	195,2	297,2	369,9		
	Heating - Water flow rate	Min.		kg/h	163,5	212,5	327,0		
	at 45/40 °C	Med.		kg/h	280,3	401,1	524,6		
		Max.		kg/h	374,1	534,5	667,5		
	Cooling - Water flow rate	Min.		kg/h	113,5	223,7	313,0		
	at 7/12 °C	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		
ound power level	Min.			dBA	34	35	35		
	Max.			dBA	55	57	58		
	Super silent			dBA	20	22	23		
ound pressure level	Min.			dBA	25	26	26		
,	Max.	İ		dBA	42	44	45		
			Min.	°€		30			
	Heating	Water side	Max.	°C.		85			
			Min.	°C.		5			
peration range	Cooling	Water side	Max.	°C		18			
						0			
	Indoor installation	Ambient	Min.	°CDB					
	1.6 1		Max.	°CDB		45			
ontrol systems	Infrared remote control					no			
	On board control					yes			
lectrical specification					FWXV10ATV3(R)	FWXV15ATV3(R)	FWXV20ATV3(R)		
	Phase					1			
ower supply	Frequency			Hz		50			
	Voltage			V		230			
lectrical power	Max.			W	19	20	29		
lectrical bower									
consumption	Standby			W	3	4	5		



Indoor unit					FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)		
Cooling capacity	Min.			kW	0,75	1,15	1,32		
t 7/12 °C	Med.			kW	1,36	2,08	2,39		
	Max.			kW	2,12	2,81	3,30		
ensible cooling	Min.			kW	0,59	0,83	1,02		
pacity at 7/12 °C	Med.			kW	1,07	1,51	1,84		
	Max.			kW	1,72	2,11	2,71		
	Min.			kW	0,41	0,45	0,93		
eating capacity t 35/30 ℃	Med.			kW	0,82	1,29	1,66		
. 33/30 C	Max.			kW	1,14	1,73	2,15		
	Min.			kW	0,82	1,20	1,47		
leating capacity	Med.			kW	1,53	2,16	2,59		
t 45/40 °C	Max.			kW	2,21	3,02	3,81		
	Min.			kW	0,004	0,005	0,006		
ower input	Med.			kW	0,008	0,011	0,011		
Jire: IIIpac	Max.			kW	0,019	0,020	0,029		
	Min.			m³/h	118	180	246		
an speed	Med.			m³/h	210	318	410		
an speed				m³/h		438			
	Max.			m /n	294		566		
asing	Material					No casing			
		Height		mm		576			
imensions	Unit	Width		mm	725	925	1125		
		Depth		mm	126	126	126		
		Height		mm		690			
	Packed unit	Width		mm	830	1030	1230		
		Depth		mm		210			
/eight	Unit			kg	12	15	18		
	Packed unit			kg	13	16	19		
cking	Material					Carton			
	Weight			kg		1			
	Quantity	<u> </u>		9	1	1	1		
eat exchanger	,				0,8	1,13	1,46		
chenanger	Internal coil volume	Max Operating	proceuro	bar	0,0	10	1,10		
	Die ie e e e e e e e e e e e e e e e e e	Max Operating	piessuie			3/4" male			
	Piping connections diameter			inch	EUROKONUS				
	Piping material	T							
	Heating - Water pressure drop	Min.		kPa	0,3	2,0	1,2		
	at 35/30 °C	Med.		kPa	1,3	7,5	4,0		
		Max.		kPa	2,4	12,3	8,0		
	l., ., ., ., .	Min.		kPa	1,3	8,6	3,8		
	Heating - Water pressure drop at 45/40 °C	Med.		kPa	4,2	3,3	11,2		
	at 43/40 C	Max.		kPa	7,2	11,5	21,3		
		Min.		kPa	1,2	4,3	2,1		
	Cooling - Water pressure drop	Med.		kPa	2,8	19,3	13,1		
Vater circuit	at 7/12 °C	Max.		kPa	2,9	27,0	24,0		
		Min.		kg/h	69,9	73,6	160,2		
	Heating - Water flow rate	Med.		kg/h	141,4	221,1	285,3		
	at 35/30 °C								
		Max.		kg/h	195,2	297,2	369,9		
	Heating - Water flow rate	Min.		kg/h	163,5	212,5	327,0		
	at 45/40 °C	Med.		kg/h	280,3	401,1	524,6		
		Max.		kg/h	374,1	534,5	667,5		
	Cooling - Water flow rate	Min.		kg/h	113,5	223,7	313,0		
	at 7/12 °C	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		
ound power level	Min.			dBA	35	35	36		
	Max.			dBA	53	54	55		
	Super silent			dBA	20	22	23		
ound pressure level	Min.			dBA	25	26	26		
and pressure level		+		dBA	42	44	46		
	Max.		Min	°C abA	42		40		
	Heating	Water side	Min.			30			
			Max.	°C.		85			
peration range	Cooling	Water side	Min.	°C.		5			
3-			Max.	°⊂		18			
	Indoor installation	Ambient	Min.	°CDB		0			
			Max.	°CDB		45			
antrol systems	Infrared remote control					no			
ontrol systems	On board control					no			
ectrical specification					FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)		
	Phase				, ,	1			
ower supply	Frequency			Hz		50			
c. Juppiy	Voltage			V		230			
		-		W	10		29		
lectrical power	Max.			W	19	20	5		
					3	4	5		
onsumption Eurrent	Standby Maximum running current			A	0,16	0,16	0,26		



Indoor unit					FWXT10ATV3(C)(CL)	FWXT15ATV3(C)(CL)	FWXT20ATV3(C)(CL)
aalina canacitu	Min.			kW	0,53	0,65	0,74
ooling capacity : 7/12 °C	Med.			kW	0,98	1,20	1,35
	Max.			kW	1,21	1,62	2,12
-1.1	Min.			kW	0,13	0,15	0,36
nsible cooling pacity at 7/12 °C	Med.			kW	0,40	0,56	0,70
pacity at 7/12 C	Max.			kW	1,01	1,44	1,99
	Min.			kW	0,29	0,23	0,47
eating capacity	Med.			kW	0,48	0,69	1,08
35/30 °C	Max.			kW	0,66	1,00	1,44
	Min.			kW	0,61	0,85	1,08
eating capacity							
45/40 °C	Med.			kW	1,12	1,51	1,95
	Max.			kW	1,51	2,03	2,62
ower input	Min.			kW	0,004	0,005	0,006
	Max.			kW	0,019	0,020	0,029
	Min.			m³/h	84	124	138
n speed	Med.			m³/h	155	229	283
	Max.			m³/h	228	331	440
	Colour					RAL 9003	
ising	Material					Metal sheet	
	Material	Height		mm		335	
mansions	Unit				902		1300
mensions	Unit	Width		mm	902	1100	1300
		Depth		mm		128	
		Height		mm		490	
	Packed unit	Width		mm	1030	1230	1430
		Depth		mm		210	
eight	Unit			kg	14	16	19
	Packed unit			kg	15	17	20
acking	Material					Carton	
	Weight			kg		1	
	Quantity			9		1	
Heat exchanger	Quartity			1	0,54	0,74	0,93
eat excilariyer	Internal coil volume	Marria		-	0,34		0,53
		Max Operating	pressure	bar		10	
	Piping connections diameter			inch		3/4" male	
	Piping material					EUROKONUS	
		Min.		kPa	0,2	1,9	0,3
	Heating - Water pressure drop	Med.		kPa	0,9	2,9	1,4
	at 35/30 ℃	Max.		kPa	1,6	3,3	2,3
		Min.		kPa	1,1	2,8	1,1
	Heating - Water pressure drop	Med.		kPa	3,1	3,5	
	at 45/40 °C						4,1
		Max.		kPa	5,4	4,0	6,6
	Cooling - Water pressure drop	Min.		kPa	1,1	3,9	1,3
	at 7/12 °C	Med.		kPa	3,0	4,8	4,2
ater circuit		Max.		kPa	5,2	5,7	6,9
		Min.		kg/h	39,3	39,0	80,8
	Heating - Water flow rate	Med.		kg/h	81,8	119,4	185,4
	at 35/30 °C	Max.		kg/h	114,0	172,4	247,8
		Min.		kg/h	91,9	112,6	164,8
	Heating - Water flow rate	Med.		kg/h	162,0	216,6	
	at 45/40 °C						341,0
		Max.		kg/h	218,4	310,0	447,2
	Cooling - Water flow rate	Min.		kg/h	82,1	98,9	156,5
	at 7/12 °C	Med.		kg/h	138,1	177,4	300,6
		Max.		kg/h	184,4	283,0	396,8
	Pressure	Heating/Max.		bar	10	10	10
	Min.			dBA	35	36	36
und power level	Max.			dBA	53	54	55
	Min.			dBA	25	25	26
und pressure level	Max.			dBA	40	42	43
	IVIDA.		M:-		40		45
	Heating	Water side	Min.	°C		30	
			Max.	°C.		85	
eration range	Cooling	Water side	Min.	°C.		5	
ciation range	Cooling	vvater side	Max.	°C		18	
	to do as to see the se	A le :	Min.	°CDB		0	
	Indoor installation	Ambient	Max.	°CDB		45	
ectrical specification	ns		,		FWXT10ATV3(C)(CL)	FWXT15ATV3(C)(CL)	FWXT20ATV3(C)(CL
	Phase				I WATTOAT VO(C)(CL)	1	I WATEUMI VO(C)(CL
wer supply				11-			
	Frequency			Hz		50	
	Voltage			V		230	
ectrical power	Max.			W	17,6	19,8	26,5
				147	5	5	5,8
onsumption	Standby			W			3,0



							•
			FWXV10ATV3(R) FWXV15ATV3(R)	FWXM10ATV3(R)	FWXM15ATV3(R)	FWXM20ATV3(R)	FWXT10ATV3(C)(CL) FWXT15ATV3(C)(CL)
			FWXV20ATV3(R)				FWXT20ATV3(C)(CL)
			DC Inverter fan coil unit with sheet metal cabinet (white colour)	Built in DC Inve	erter fancoil for horizo	ntal and vertical	High Wall fancoil
Material name	Description	Picture					
EKRTCTRL1	On board electronic control SMART TOUCH with PID full modulating fan and thermostat	236	Opt				
EKRTCTRL2	On board electronic control SMART TOUCH 4 speeds with thermostat	.53	Opt				
EKPCBO	On board 4 speeds control switch to be combine with Daikin combinable thermostats	9	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 ℃	25	Opt	Opt	Opt	Opt	
EKDIST	Extension piece		Opt	Opt	Opt	Opt	
EKM10COH			FWXV10ATV3(R)				
EKM15COH	Condensate collector tray for horizontal installation		FWXV15ATV3(R)				
EKM20COH		# #	FWXV20ATV3(R)	_			
EKM10CS EKM15CS	Metal casing			Opt	Opt		
EKM20CS	ivietal cashig	200			Орг	Opt	
EKM10CH		1		Opt			
EKM15CH	Front cover for ceiling installation				Opt		
EKM20CH						Opt	
EKM10CV EKM15CV	Front cover for wall installation			Opt	Opt		
EKM20CV					Орг	Opt	
EKM10DH				Opt			
EKM15DH	Air intake fitting				Opt		
EKM20DH		**/		_		Opt	
EKM10D90 EKM15D90	90 °C exhaust hend (Horizontal)			Opt	Opt		
EKMISD90 EKM20D90	90 °C exhaust bend (Horizontal)				Opt	Opt	
EKM10DT				Opt		Эрг	
EKM15DT	Telescopic air flow duct				Opt		
EKM20DT						Opt	
EKM10IS				Opt			
EKM15IS	Aluminum air intake grill with straight airflow				Opt		
EKM20IS				_		Opt	
EKM10SV	Straight airflow year			Opt	Ont		
EKM15SV EKM20SV	Straight airflow vent				Opt	Opt	
EKM10IC				Opt		Орг	
EKM15IC	Aluminum air intake grill with curved airflow			Spt.	Opt		
EKM20IC						Opt	
EKM10CA				Opt			
EKM15CA	Aluminum air outlet grill with curved airflow				Opt	<u> </u>	
EKM20CA						Opt	

Stand By Me,



a journey to customer satisfaction

With the Stand By Me service programme, you can rest assured your customers are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me eliminates 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 customers are guaranteed:

- **☑** Quick and reliable service
- ✓ Documentation management related to the installation, (i.e.registration documents, attendance records, maintenance records, etc.)
- ✓ Real-time error codes inform the service partner about possible issues



Extended warranty on parts

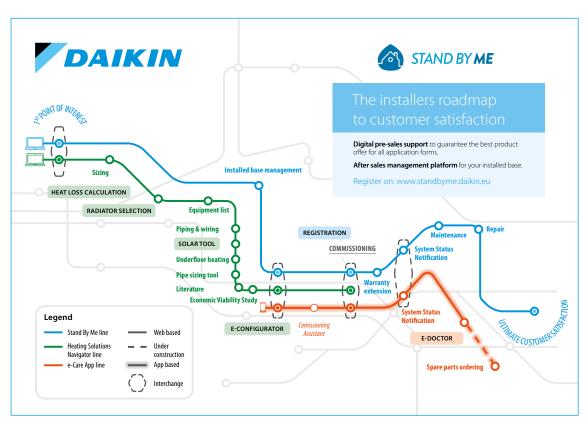
For a small fee, customers can extend the warranty on specific parts. Contact your local Daikin branch for more information about the specific offer in your country.

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.

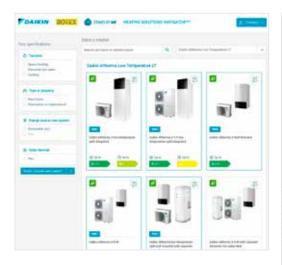
Stand By Me roadmap overview

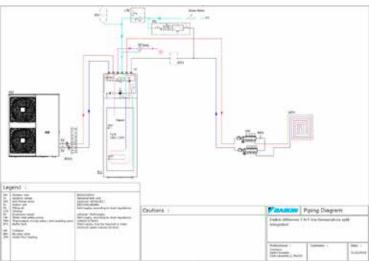


Heating Solutions Navigator



- > The Heating Solutions Navigator is a digital toolbox developed for Daikin professionals who need to provide the best possible solution for their customers' homes.
- > As a service provider, you can use this tool to configure an installation, create custom-made piping and wiring diagrams, and much more.





E-Care App



The Daikin e-Care App makes life easier to install a Daikin unit. This useful app allows you to retrieve Stand By Me registrations by scanning a QR code, easily configure heating installations, and troubleshoot via the e-Doctor feature.

Installers can now:

- > Order spare parts directly from the e-Care App
- > Update installation settings with a Wifi USB stick
- > Avoid issues with the Commissioning Assistant





www.standbyme.daikin.eu

Stand By Me and The Heating Solutions Navigator help connect Daikin with its partners to make installations easier.



Curious to learn how these platforms work? Scan the QR codes below to see a demo for each tool.

SIZING

HSN: Room By Room Heat Load

The optional Room by Room Heat Load Calculation tool helps you estimate the heat load of a property.

SOLAR

HSN: Solar Selection Tool

The Solar Selection Tool shows the benefits of Daikin solar technologies and helps you choose the right system for a home.

PIPE SIZING TOOL

Calculate
the maximum
hydronic piping
length from the
indoor unit to
the outdoor unit
based on the
emitter pressure
drop or vice versa.

ECONOMIC VIABILITY STUDY

Compare a Daikin solution with a benchmark solution.

LITERATURE

INSTALLED BASE MANAGEMENT



HEATING SOLUTIONS NAVIGATOR (HSN)

professional.standbyme.daikin.eu

The Heating Solutions Navigator is a digital toolbox that helps you select the right Daikin solution for your customer's home.



EQUIPMENT LIST

RADIATOR

HSN: Radiator Selection Tool

The Radiator Selector Tool helps you select the appropriate radiator size for each room.

UNDERFLOOR HEATING

The Underfloor Heating Tool provides an overview of materials you'll need for a specific project, a detailed calculation and floor plan.

PIPING & WIRING

Get customised piping and wiring diagrams for every project that take many parameters into account, such as heat generator, zoning, emitter type and more.

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.

With a user friendly and intuitive interface, configuration can be completed in a couple of steps. Then it can be stored as a PDF or saved on a USB stick/SD card to upload into the heat pump on the job site.



CONTACT YOUR LOCAL SBM/HSN SPECIALIST

REGISTRATION

Installation Registration SBM is an after-sales service tool that extends the warranties of installations and allows you to place orders for maintenance packages.

With Stand By Me, you have access to a digital logbook to keep track of all your Daikin installations and refer back them via any mobile device.

COMMISSIONING

COMMISSIONING ASSISTANT

Use this special hydro check module during commissioning.



SYSTEM STATUS NOTIFICATION

SYSTEM STATUS

NOTIFICATION

You can choose to receive malfunction codes about your installations via the Stand By Me platform or the e-Care App.

E-DOCTOR

e-Care App:
Daikin e-Doctor is
part of the e-Care App
and offers assistance
when you need to
troubleshoot a unit.

REPAIR



DEMO

MAINTENANCE





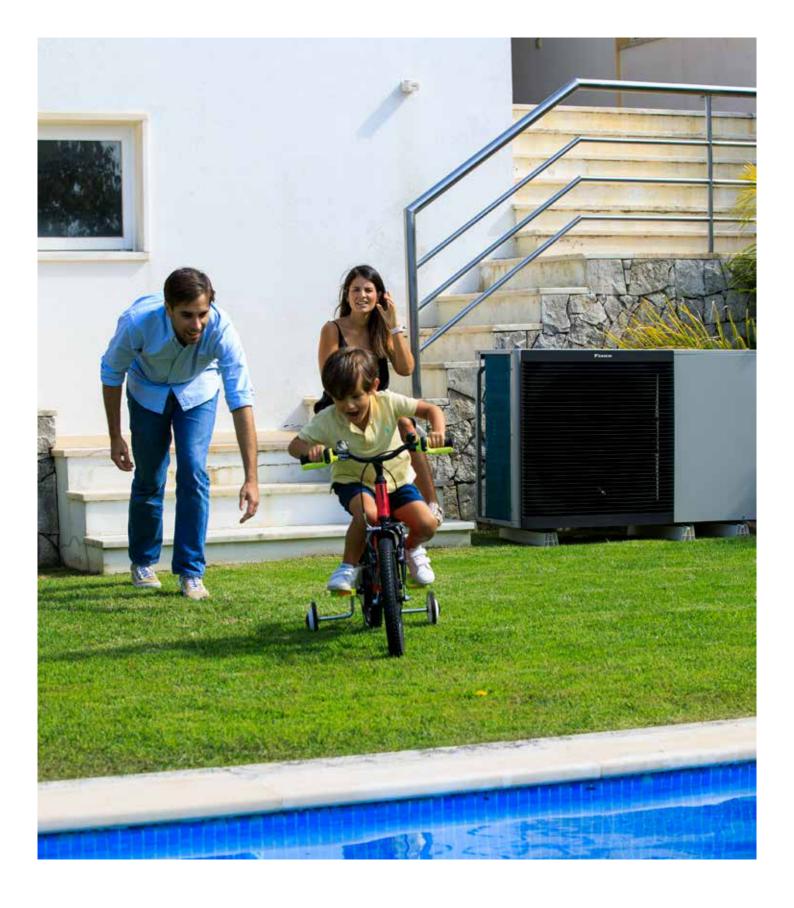
E-CARE







Stand By Me, a journey towards customer satisfaction



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