

Daikin Altherma 3 M

Product leaflet 2020



The power pact



E(B/D)LA-D series

Why choose Daikin Altherma air-to-water heat pump?

How does it work?

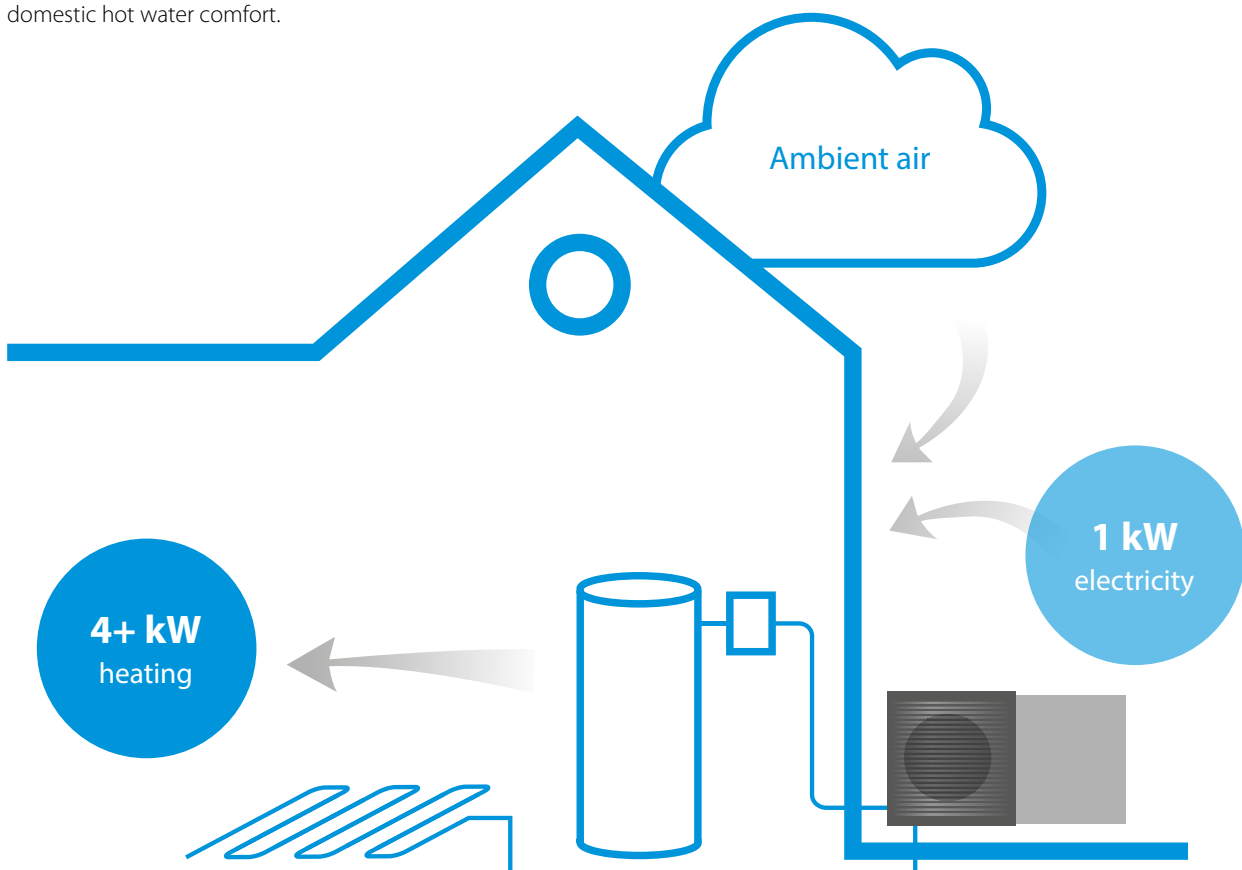
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water, and heat the water up to your needs and to deliver it into your house.

Mid temperature heat pump

Ideal for new building applications and suitable for large renovations, mid temperature heat pumps are particularly fitting with underfloor heating and heat pump convectors requiring a lower temperature to provide an equivalent comfort as radiators.

Monobloc unit

The monobloc is an outdoor unit including the refrigerant circuit. In this case, there is no indoor unit, only a wiring center and a stand-alone tank for domestic hot water comfort.



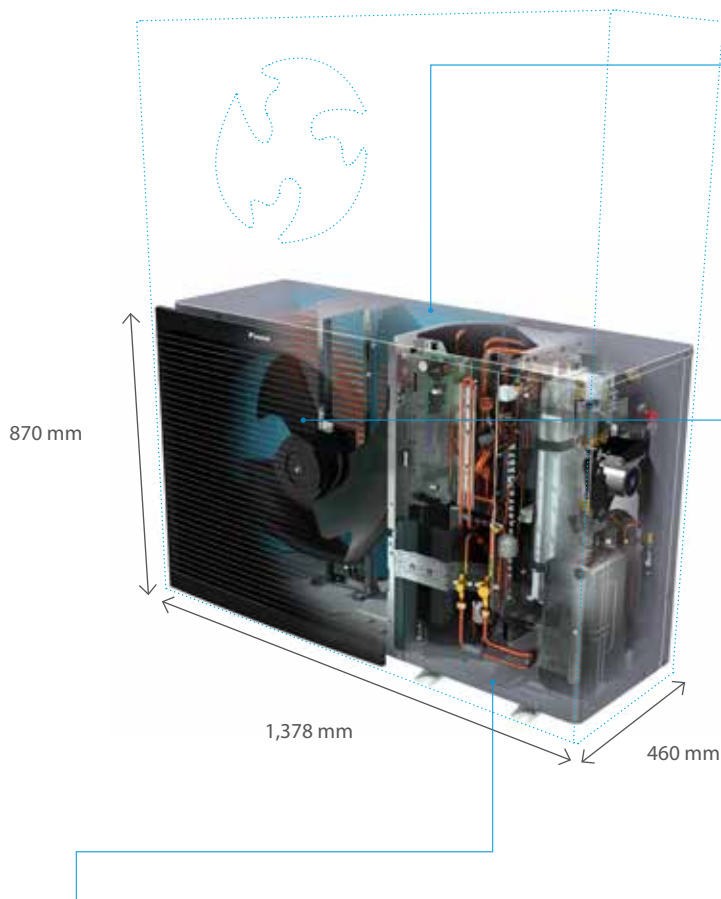
Daikin Altherma 3 M

The power pact



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.

Monobloc running on refrigerant R-32

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

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.

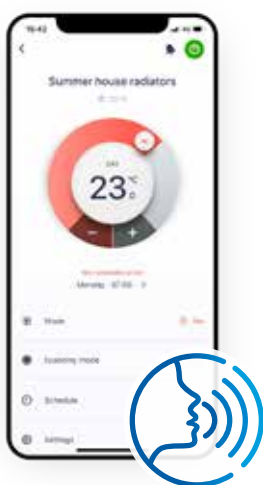


R-32 BLUEEVOLUTION

Daikin Residential Controller App

Now available with voice control

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

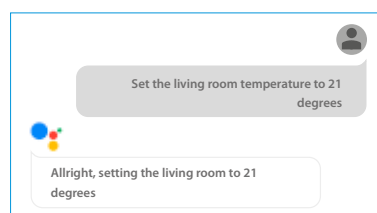


NEW

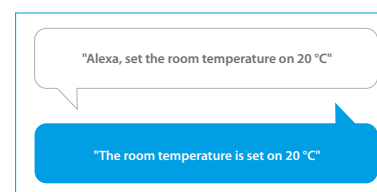
Voice control

To provide 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



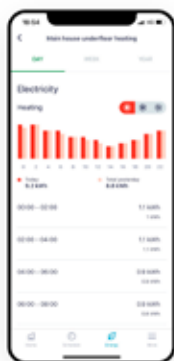
Example of using the voice control via Amazon Alexa



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



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)



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

Scan the QR code to download the app now



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.



Madoka, Resdesigned and intuitive wired remote controller



BRC1HHDW



BRC1HHDS



BRC1HHDK



Intuitive control with a premium design

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.



Modern user interface



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.

✓ Quick configuration

After logging in, you'll be able to configure the unit with the new controller in less than 10 steps.

You can even check if the unit is ready to use by running test cycles.

✓ Easy operation

The new interface features a few buttons and 2 navigational knobs to help you quickly set the room temperature and control units.

✓ User-friendly design

The interface features an intuitive design. The high contrasted colour screen delivers stunning and practical visuals for both installers and service engineers.

✓ WLAN cartridge connection

✓ Small dimensions for a discreet unit: 136 x 160 x 37 mm (HxWxD)

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



reddot award 2018
winner



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.

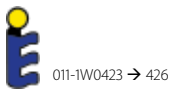
Domestic hot water production

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

Daikin Altherma 3 M

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

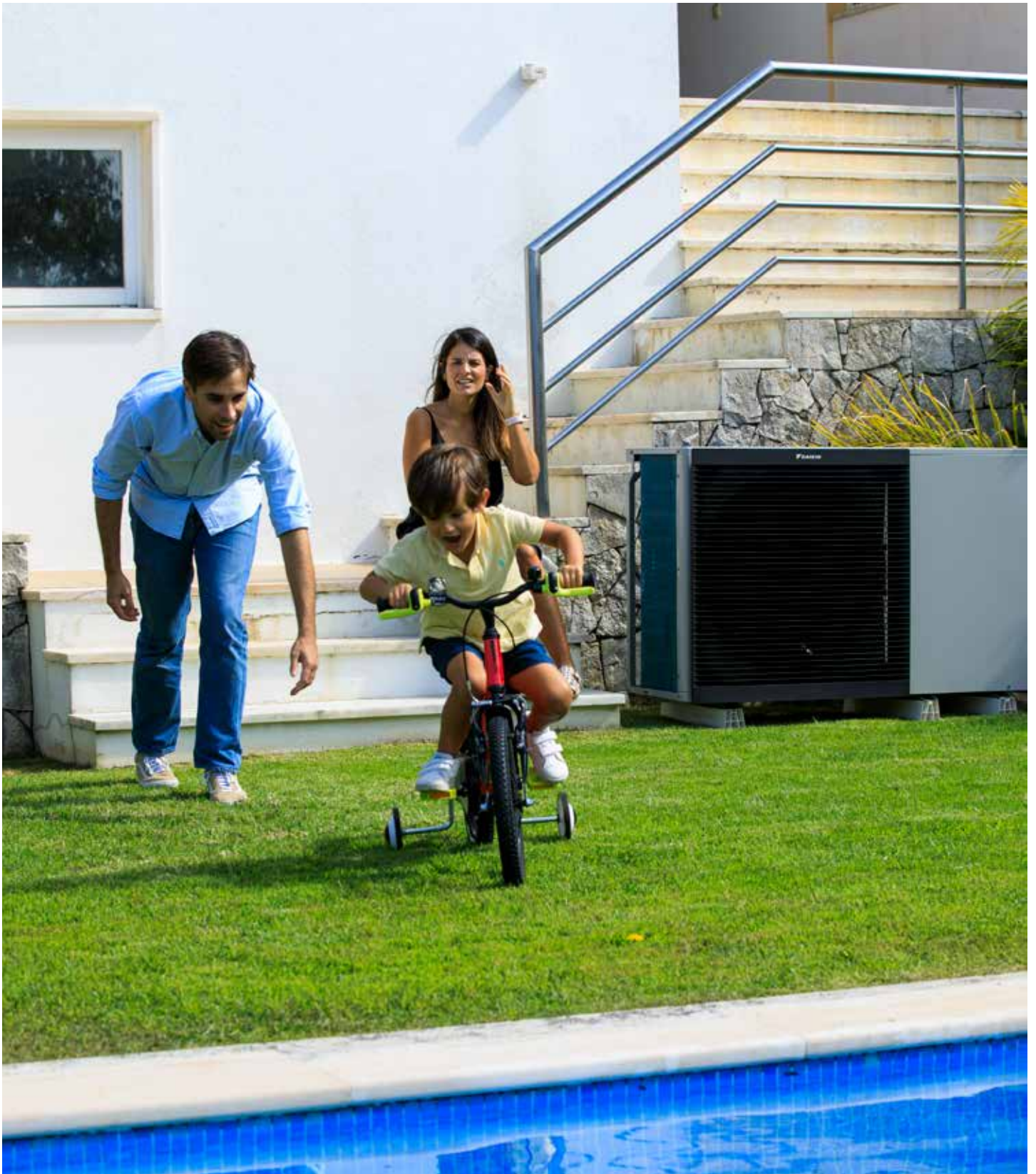
- › WLAN cartridge connection (optional)
- › Possible to combine with domestic hot water tanks
- › Reversible or heating only air-to-water heat pump
- › Monobloc all-in-one concept including all hydraulic parts
- › An optional built-in 3 kW electric back-up heater or a separate back-up heater kit are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



011-IW0423 → 426

Single Unit		E(B/D)LA		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)
	Cooling	Nom.			kW	4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)	4.53 (1) / 3.51 (2)
Heating capacity	Nom.			kW	9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)	14.0 (3) / 15.3 (4)	
Power input	Heating	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)
	Cooling	Nom.			kW	3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)	3.06 (3) / 4.74 (4)
EER						5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		135	132	134	132	
			SCOP		3.44	3.37	3.42	3.37	
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		190	186	185		
			SCOP		4.82	4.73	4.70	4.69	
				Seasonal space heating eff. class					
				A++					
				A+++					
Casing	Colour			Silver					
	Material			Polyester painted galvanised steel plate					
Dimensions	Unit	HeightxWidthxDepth		mm					
				870 x 1,380 x 460					
Weight	Unit			kg					
				DV3/DW1: 147, D3V3/D3W1: 149					
Compressor	Quantity			1					
	Type			Hermetically sealed swing compressor					
Operation range	Heating	Ambient	Min.~Max.	°CWB					
		Water side	Min.~Max.	°C					
				DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35					
				DV3/DW1: 9 ~ 60, D3V3/D3W1: 15 ~ 60					
Operation range	Cooling	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
				10 ~ 43					
				5 ~ 22					
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
				-25 ~ 35					
				25 ~ 55					
Refrigerant	Type			R-32					
	GWP			675.0					
	Charge			kg					
				3.80					
	Charge			TCO2Eq					
				2.57					
	Control			Expansion valve					
Sound power level (5)	Heating	Nom.			dB(A)				
					62				
Power supply	Name/Phase/Frequency/Voltage		Hz/V						
			V3/1~/50/230 - W1/3~/50/400						
Current	Recommended fuses		A						
			32/16						

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



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