DAIKIN

altherma

CONNECTED HEAT PUMP

WLAN ADAPTER INCLUDED

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?

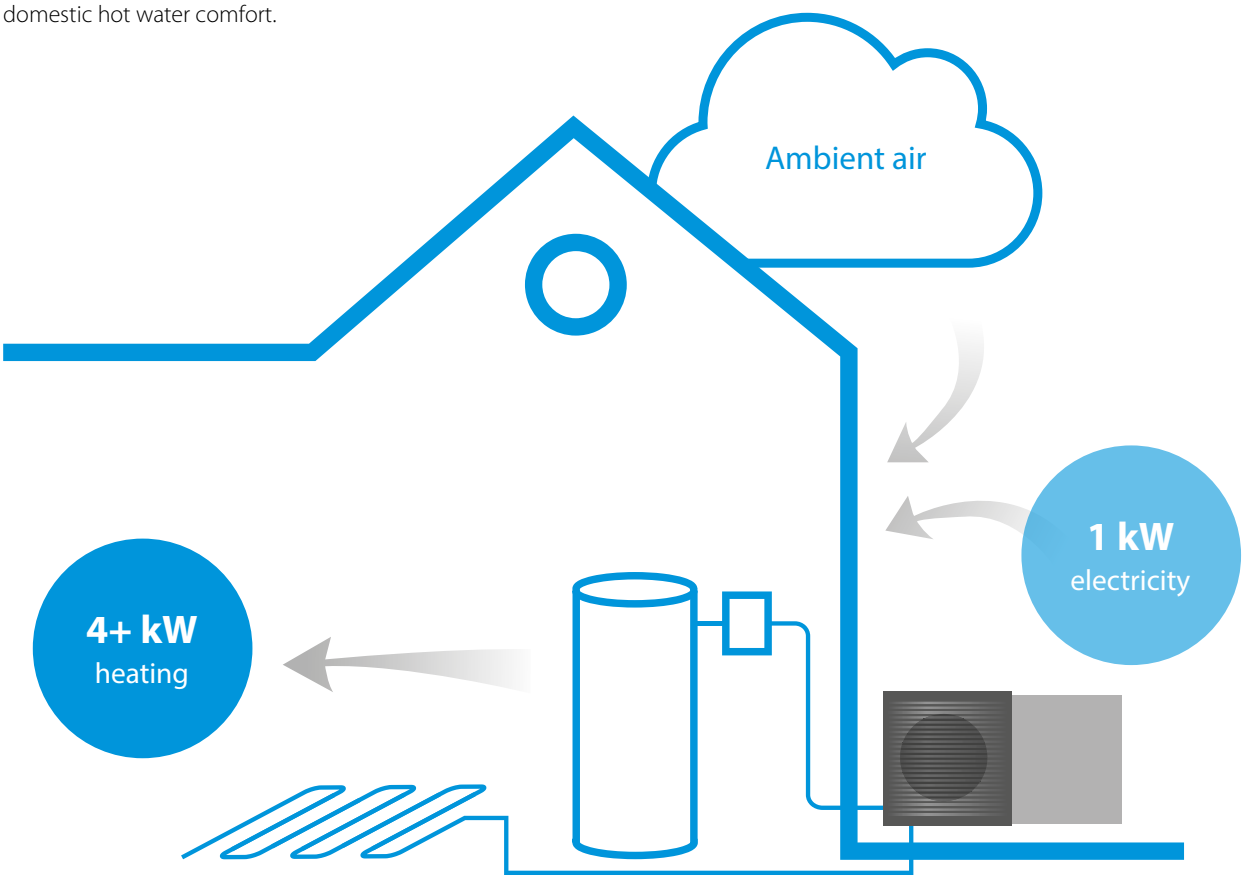
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water,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

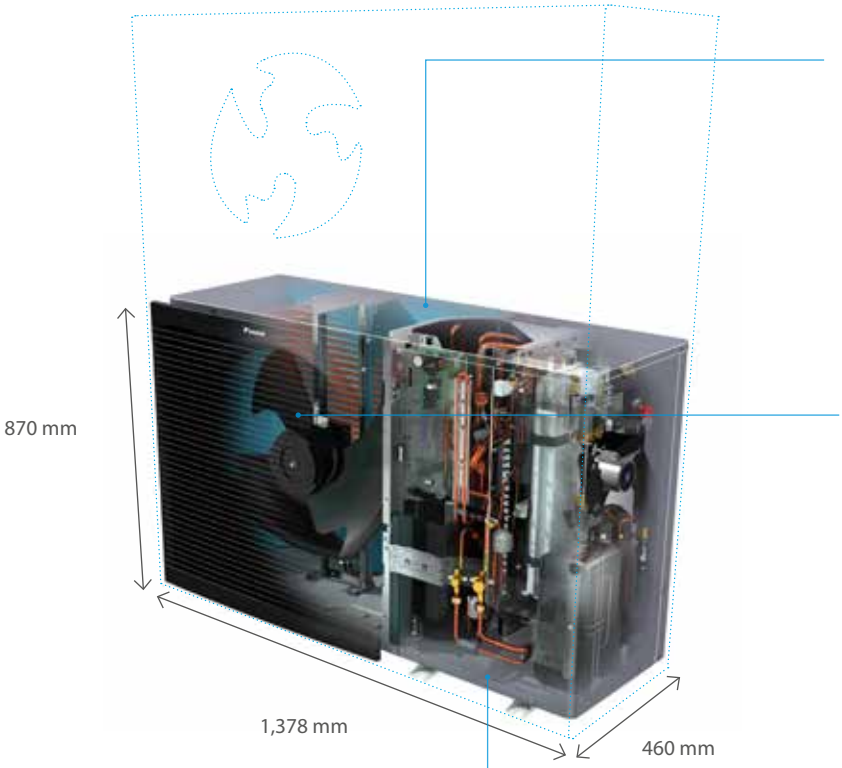


Daikin Altherma 3 M

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 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

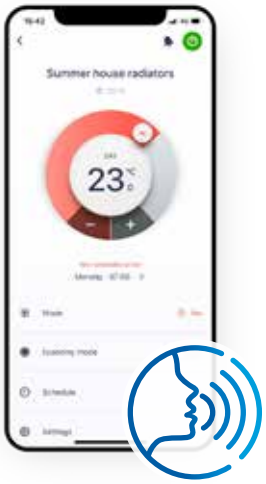
Ideal for small spaces

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.

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

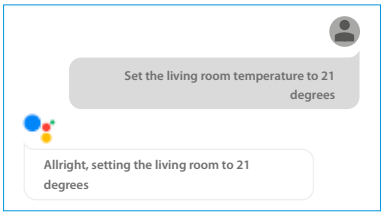
Voice control

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.

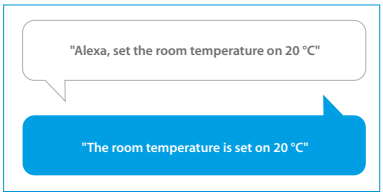
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

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

DAIKIN

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.

Available on the App Store

GET IT ON Google Play

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.

Available on the App Store

GET IT ON Google Play

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)

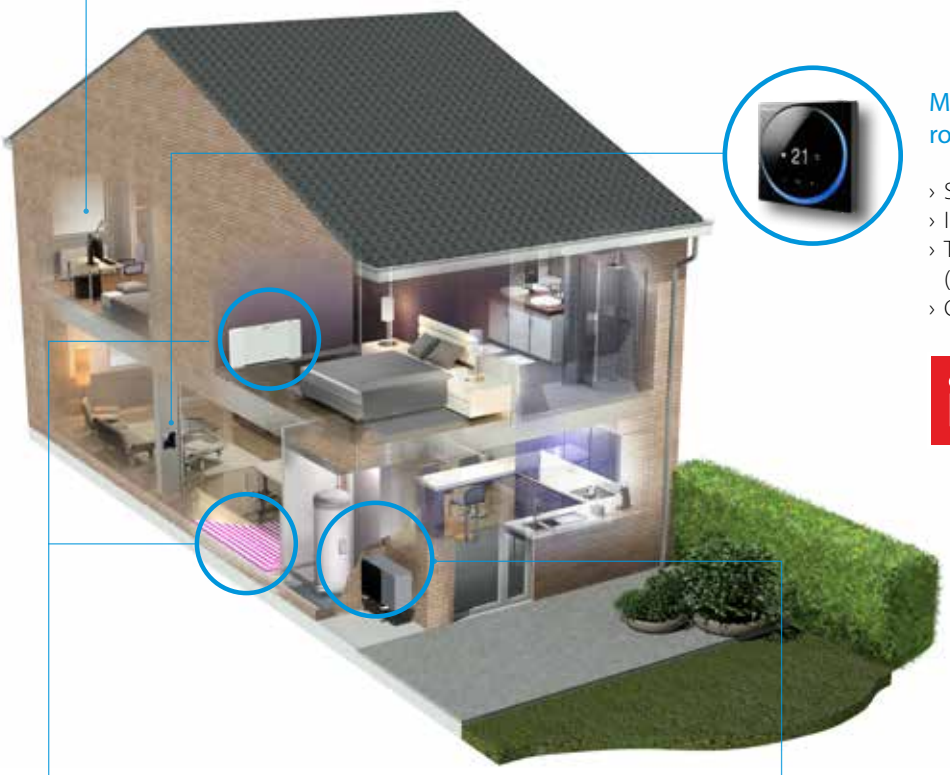
Fully connected

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

DESIGN AWARD 2018

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

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

- W-LAN 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
- Available with Built-in 3 kW electric back-up heater for additional heating or with a separate back-up heater kit
- Available in one phase and three phase

Up to A+++ | 60 °C | R-32

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						4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)	4.53 (1) / 3.51 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)			133	130	132	130
			SCOP			3.39	3.32	3.37	3.33
			Seasonal space heating eff. class			A++			
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)			186	182		
			SCOP			4.72	4.64	4.62	
			Seasonal space heating eff. class			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	DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35			
		Water side	Min.~Max.		°C	DV3/DW1: 9 ~ 60, D3V3/D3W1: 15 ~ 60			
Operation range	Domestic hot water	Ambient	Min.~Max.		°CDB	-25 ~ 35			
		Water side	Min.~Max.		°C	25 ~ 55			
Refrigerant	Type					R-32			
	GWP					675.0			
	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	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) According to EN14825 This product contains fluorinated greenhouse gases.

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

Up to A+++ | 60 °C | R-32

011-1W0423 → 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)
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	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)
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
			Seasonal space heating eff. class		A++			
	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+++			
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	DV3/DW1: -25 ~ 25, D3V3/D3W1: -25 ~ 35			
		Water side	Min.~Max.	°C	DV3/DW1: 9 ~ 60, D3V3/D3W1: 15 ~ 60			
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10 ~ 43			
		Water side	Min.~Max.	°C	5 ~ 22			
Operation range	Domestic hot water	Ambient	Min.~Max.	°CDB	-25 ~ 35			
		Water side	Min.~Max.	°C	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.		dBA	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.

Daikin Europe N.V. Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)

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