DAIKIN

altherma

CONNECTED HEAT PUMP

W-LAN CARTRIDGE INCLUDED

Daikin Altherma 3 M (4-6-8 kW)

Product leaflet 2022

The monobloc standard

up to A+++

up to A+

E(B/D)LA04-08E(3)V3

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

How does it work?

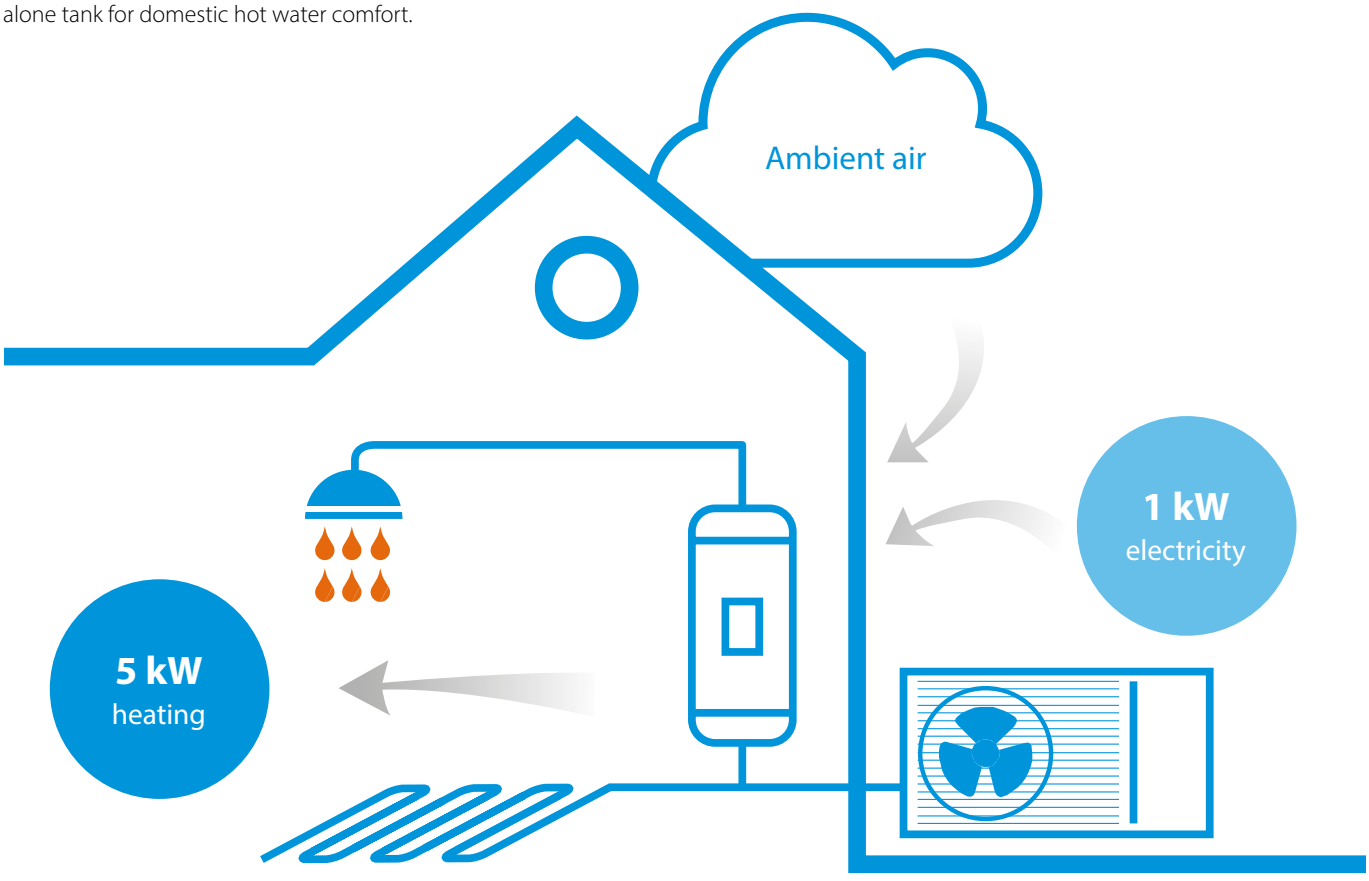
The outdoor unit extracts energy from the air to provide heating, cooling and hot water. They collect up to 75% of their energy in the air, while the rest is provided by electricity. The air-to-water heat pump relies on a compressor and a refrigerant to transfer the energy from the air to the water,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

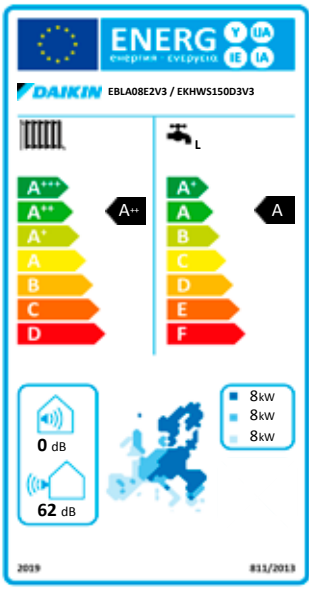
Low temperature heat pump

Typical new build application. Low 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 heat pump

The monobloc consists a larger outdoor unit also containing the refrigerant circuit. In this case, there is no indoor unit inside, only a wiring centre and a stand-alone tank for domestic hot water comfort.





Highest energy label

Daikin heat pumps comply with the most recent regulations established by the European Union by holding an energy label with the highest scores, up to A+++ in space heating (35°C water outlet) and A+ in domestic water heating.

Did you know?

Since 2015, all heating products must carry an energy label. The space heaters were rated from A++ to G and water heaters from A to G.

On 26th September 2019, new energy labels are available and rate the heating products from A+++ to D in space heating, and from A+ to F in water heating.

Daikin Altherma 3 M

4-6-8 kW

Functional design

Daikin Altherma 3 M is the Daikin's first third generation monobloc, benefiting from a new design and using the R-32 refrigerant, also now available in 4, 6 and 8 kW.

A redesigned casing

The white front grille made of horizontal lines is hiding the fan from view, reducing the perception of the sound produced by the unit.

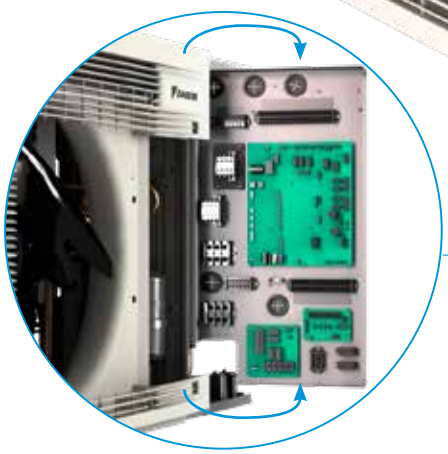
The light grey and seamless casing is slightly reflecting the environment where the unit is installed, helping it to blend in in any decor.

A renewed fan shape

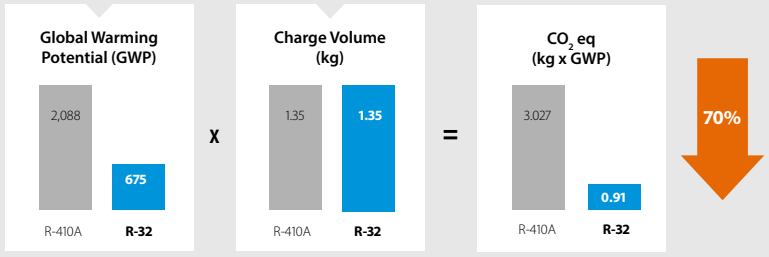
The shape of the fan has been reviewed to reduce the contact surface with air and improve the air circulation.

Help installers and commissioning

- The rotary switchbox is a brand-new feature in this monobloc heat pump.
- It helps installers accessing the hydraulic and refrigerant components of the unit in an easy way.
- The service and commissioning can be then performed with ease.



Reduced environmental impact: 70% less CO_2 equivalent
› GWP: R-410A: 2,088 > R-32: 675



R-32 monobloc

R-32 BLUEVOLUTION

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.

A simple solution to space limitation

Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monobloc can even fit under a window!

The monobloc also gets its power from inside: all hydraulic components are integrated in one unit, including the sealed refrigerant circuit: no need for refrigerant handling or F-gas qualifications

Fully connected control

The Daikin Altherma 3 M is equipped
with the most intuitive control solutions.

Heating and cooling emitters

Daikin Altherma 3 M works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.

Cloud ready with WLAN

Onecta app, with voice control

- Control the heating system from home or remote via smartphone
- Control the heating system with the voice
- Include integrations with Google Assistant and Amazon Alexa
- Featuring other functions: scheduling and holiday mode, control multiple units and boosting mode, monitoring energy consumption…

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

DESIGN AWARD 2018

Domestic hot water production

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

☑ Man-Machine Interface (MMI) NEW

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.

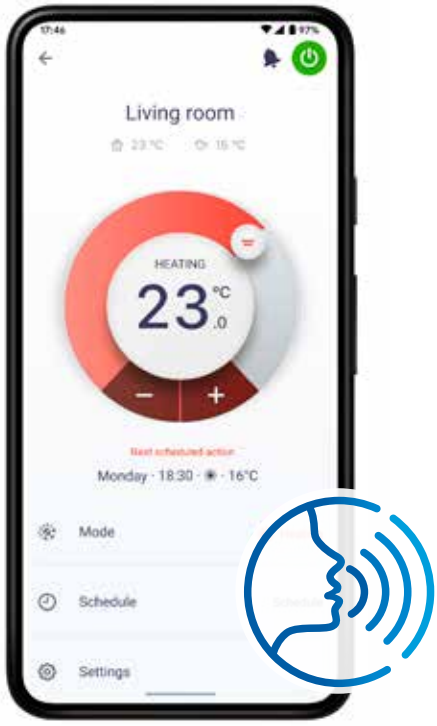
WLAN cartridge connection

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

Onecta App

Now available with voice control

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



onecta

NEW

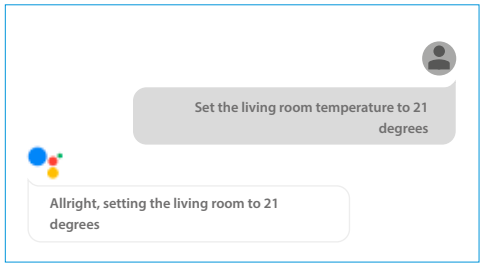
Voice control

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

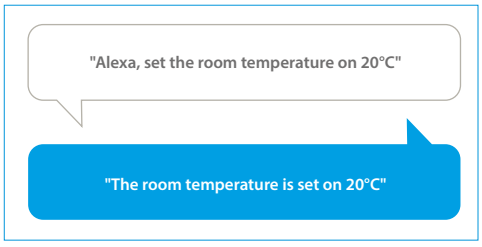
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.

works with the Google Assistant

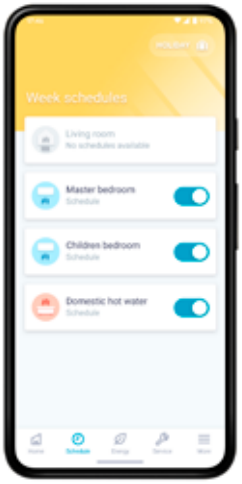
amazon alexa



Example of using the voice control via Google Assistant



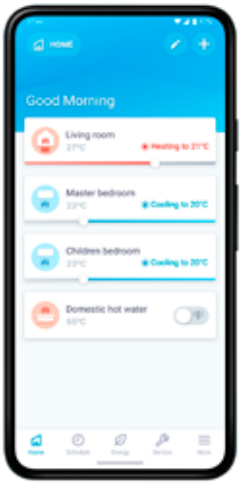
Example of using the voice control via Amazon Alexa



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



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.

Available on the App Store | GET IT ON Google Play

Scan the QR code to download the app now

Daikin Altherma 3 M

Air-to-water monobloc system that provides **heating**, **domestic hot water** and **optionally cooling**. Ideal for limited installation space.

- WLAN cartridge connection standard included
- Possible to combine with domestic hot water tanks
- Heating only or reversible models available
- Monobloc all-in-one concept including all hydraulic parts
- Optional plug & play integrated 3 kW electric back-up heater
- Available in one phase

EDLA04-08E(3)V3

BRC1HHDK

up to A+++ | up to* A+ | 55 °C | R-32

Single Unit					EDLA04E(3)V3	EBLA04E(3)V3	EDLA06E(3)V3	EBLA06E(3)V3	EDLA08E(3)V3	EBLA08E(3)V3
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.90 (2)	7.50 (1) / 7.80 (2)
Power input	Heating	Nom.		kW	0.84 (1) / 1.26 (2)	0.84 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)	1.63 (1) / 2.23 (2)
COP					5.10 (1) / 3.65 (2)	5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
Cooling capacity	Nom.			kW	-	4.86 (1) / 4.52 (2)	-	5.83 (1) / 5.09 (2)	-	6.18 (1) / 5.44 (2)
Power input	Heating	Nom.		kW	-	0.82 (1) / 1.36 (2)	-	1.08 (1) / 1.55 (2)	-	1.19 (1) / 1.73 (2)
EER					-	5.91 (1) / 3.32 (2)	-	5.40 (1) / 3.28 (2)	-	5.19 (1) / 3.14 (2)
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)		127	129	127	128	130	131
			SCOP		3.26	3.29	3.26	3.28	3.32	3.35
			Seasonal space heating eff. class		A++					
	Average climate water outlet 35 °C	General	ηs (Seasonal space heating efficiency)		176	179	176	178	179	181
			SCOP		4.48	4.54	4.47	5.52	4.56	4.61
			Seasonal space heating eff. class		A+++					
Casing	Colour				Ivory white					
	Material				Zinc coated low carbon steel					
Dimensions	Unit	HeightxWidthxDepth		mm	770 x 1,250 x 362					
Weight	Unit			kg	EV3: 88, E3V3: 91					
Compressor	Quantity				1					
	Type				Hermetically sealed swing compressor					
Operation range	Heating	Ambient	Min.~Max.	°CWB	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35	-25 ~ 25	-25 ~ 35
		Water side	Min.~Max.	°C	EV3: 9 ~ 65 / E3V3: 15 ~ 65					
	Cooling	Ambient	Min.~Max.	°CDB	-	10 ~ 43	-	10 ~ 43	-	10 ~ 43
		Water side	Min.~Max.	°C	-	5 ~ 22	-	5 ~ 22	-	5 ~ 22
	Domestic hot water	Ambient	Min.~Max.	°CDB	-27 ~ 35					
		Water side	Min.~Max.	°C	25 ~ 55					
Refrigerant	Type				R-32					
	GWP				675					
	Charge			kg	1.85					
	Charge			TCO2Eq	0.91					
	Control				Expansion valve					
Sound power level	Heating	Nom.		dBA	58		60		62	
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230					
Current	Recommended fuses			A	20				25	

(1) Cooling Ta 35°C - LWA 18°C (DT=5°C), Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (2) Cooling Ta 35°C - LWA 7°C (DT=5°C), Heating Ta DB/WB 7°C/6°C - LWC 55°C (DT=5°C). This product contains fluorinated greenhouse gases.
*Domestic hot water in combinations with stainless steel tank EKHWS(U)-D and ECH$_2$O thermal store EKHWP-(P)B.

Combination table and options

			R-32 small monobloc			
			Without back-up heater		With back-up heater	
			Rev	H/O	Rev	H/O
			EBLA04EV3	EDLA04EV3	EBLA04E3V3	EDLA04E3V3
			EBLA06EV3	EDLA06EV3	EBLA06E3V3	EDLA06E3V3
			EBLA08EV3	EDLA08EV3	EBLA08E3V3	EDLA08E3V3
Type	**Description**	**Material name**				
Controls	Madoka wired room thermostat	BRC1HHDAK/S/W	●	●	●	●
	Wireless room thermostat	EKRTRB	●	●	●	●
	Wired gitial thermostat	EKRTWA	●	●	●	●
	LAN Adapter + PV Solar	BRP069A61	●	●	●	●
	LAN Adapter	BRP069A62	●	●	●	●
	Universal centarlized controller for cascade	EKCC8-W DCOM-LT/IO,-LT/MB	●	●	●	●
	WLAN cartridge	BRP069A78	●	●	●	●
Multi-zoning controls	Digital wired room thermostat	EKWCTRDI1V3	●	●	●	●
	Analog wired room thermostat	EKWCTRAN1V3	●	●	●	●
	Actuator	EKWCVATR1V3	●	●	●	●
	Multi-zoning base station (10 channels)	EKWUFHTA1V3	●	●	●	●
Sensors	EKWCVATR1V3	KRCS01-1	● (1)	● (1)	● (1)	● (1)
	Multi-zoning base station (10 channels)	EKRSCA1	● (1)	● (1)	● (1)	● (1)
	EKWUFHTA1V3	EKRTETSB	● (2)	● (2)	● (2)	● (2)
	Temperature sensor for EKHWS-D	EKTESE1	●	●	●	●
	Temperature sensor for EKHWP-(P)B	EKTESE2	●	●	●	●
Domestic hot water	DHW tank	EKHWS(U)-D(3)V3	●	●	●	●
	Thermal stores	EKHWP500(P)B	●	●	●	●
	Third party tank kit	EKHY3PART	● (3)	● (3)	● (3)	● (3)
	Third party tank kit	EKHY3PART2	● (4)	● (4)	● (4)	● (4)
Heat pump convector	Floor standing	FWXV15/20/25*	● (5)	● (5)	● (5)	● (5)
	Wall mounted	FWXT15/20/25*	● (5)	● (5)	● (5)	● (5)
	Concealed	FWXM15/20/25*	● (5)	● (5)	● (5)	● (5)
Other options	Back-up heater kit	EKLBUHCB6W	● (6)	●		
	By-pass kit	EKMBHBP1	● (6)			
	Bizone kit	EKMIKPOA	●	●	●	●
		EKMIKPHA	●	●	●	●
	Digital I/O PCB	EKRP1HBAA	● (7)	● (7)	● (7)	● (7)
	Demand PCB	EKRP1AHTA	●	●	●	●
	Freeze protection valve	AFVALVE1	●	●	●	●
	PC USB cable	EKPCCAB4	●	●	●	●
	Smart grid relay kit (high voltage)	EKRELSG	●	●	●	●
	Flow switch	EKEFLSW2	● (8)	● (8)	● (8)	● (8)

(1) Only 1 sensor can be connected: indoor OR outdoor sensor.

(2) Can only be used in combination with the wireless room thermostat EKRTR(1).

(3) EKHY3PART can be used if you have a tank in which you can insert a thermistor.

(4) EKHY3PART2 can needs to be used if you have a tank in which you can't insert a thermistor.

(5) Multi combination (quantity, depends on capacity class). EKVKHPC needs to be installed mandatory on heat pump convector (exception: LT- H/O).

(6) Check 'EKMBHBP1 necessity drawing' to decide to install it in combinztion with reversible models, in order to avoid sweat on the back-up heater.

(7) Additional relays to allow bivalent control in combination with external room thermostat are field supply.

(8) Mandatory if glycol is used.

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