DAIKIN

altherma

All-in-one solution for residential heating



High performance
Improved efficiency up to A++

Year-round reliability
Delivering higher heating capacity at low ambient temperatures

Monobloc concept
Alll hydraulic parts included in the outdoor unit

Environmentally friendly
Integrated sealed refrigerant circuit to allow only water connection inside the house

Daikin Altherma low temperature monobloc

High performance

Our new double-fan Daikin Altherma monobloc has been improved with an higher seasonal efficiency, reaching the A++ label.

The unit can be connected with our last stainless steel tank EKHWS(U)-D to provide domestic hot water with a well-performing B label.



Year-round reliability

The Daikin Altherma monobloc delivers higher heating capacity at low ambient temperatures allowing installation in the coldest area.

The unit efficienctly operates down to -25°C outside.

The leaving water temperature can reach 55°C which is perfect for new build applications using underfloor heating.

55°C

Monobloc concept

The monobloc concept includes all hydraulic parts in the outdoor unit, resulting in a minimal space required inside the house.

The installer spends less time on-site thanks to this quick and easy installation procedure.

Environmentally friendly

Thanks to the integrated sealed refrigerant circuit, only a water connection is needed inside the house.

All the refrigerant is then located in the outdoor unit without any risk of leakeage.



A simple solution

The reversible air-to-water heat pump monobloc system is the ideal system for users that have limited installation space inside. Delivering cutting-edge performance within the market's most compact monobloc outdoor unit, Daikin Altherma low temperature monobloc offers heating and cooling, with an optional connection to provide domestic hot water.

The monobloc system combines all the features of heating and cooling (with optional domestic hot water) into one unit:

› Quiet and space-saving design that's easy to commission and install
› All hydraulic components are combined into one outdoor unit
› Reliable operation is guaranteed, even with outdoor temperatures as low as -25°C
› Combine with an ECH$_2$O thermal store to provide thermal support
› Combine with a stainless steel tank for domestic hot water

Thermal stores


EKHWP500B


EKHWP300B

› Available in 300 and 500 liters
› Tank designed for connection with pressurised and drainback thermal solar system
› Heat loss is reduced to a minimum thanks to the high quality insulation
› Space heating support possible (500l tank only)

Stainless steel DHW tank


EKHWS(U)-D

› Available in 150, 180, 200, 250 and 300l
› Low standing losses (1,08 - 1,63 kWh/24h)
› Pre plumbed model (SU) for UK

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Daikin Altherma low temperature monobloc

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

- Monobloc all-in-one concept including hydraulic parts
- Separate indoor wiring center (control box)
- LAN Adapter connection
- Possible to combine with domestic hot water
- Energy efficient heating only system based on air-to-water heat pump technology
- A++ heating energy label (from G to A++)
- Model available with integrated back-up heater



E(D-B)LQ011-016C(3)V3

A++ 55°C 011-1W0259 -> 261 R-410A

Single Unit				EBLQ/EDLQ	011C(3)V3	014C(3)V3	016C(3)V3	011C(3)W1	014C(3)W1	016C(3)W1
Space heating	Average climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)		120	123	119	120	123	119
			SCOP		3.09	3.16	3.06	3.09	3.16	3.06
			Seasonal space heating eff. class		A+					
	Average climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)		156	153	149	156	153	149
			SCOP		3.98	3.90	3.80	3.98	3.90	3.80
			Seasonal space heating eff. class		A++		A+	A++		A+
Heating capacity	Nom.			kW	11.2 (1) / 11.0 (2)	14.5 (1) / 13.6 (2)	16.0 (1) / 15.2 (2)	11.2 (1) / 11.0 (2)	14.5 (1) / 13.6 (2)	16.0 (1) / 15.2 (2)
Cooling capacity (only applicable to EBLQ)	Nom.			kW	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)	12.4 (1) / 11.6 (2)	12.8 (1) / 12.6 (2)	13.9 (1) / 13.6 (2)
Power input	Cooling	Nom.		kW	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)	3.18 (1) / 5.09 (2)	3.16 (1) / 5.14 (2)	3.56 (1) / 5.96 (2)
	Heating	Nom.		kW	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)
COP					4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)	4.61 (1) / 3.55 (2)	4.30 (1) / 3.32 (2)	4.26 (1) / 3.26 (2)
EER (only applicable to EBLQ)					3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)	3.90 (1) / 2.28 (2)	4.05 (1) / 2.45 (2)	3.90 (1) / 2.28 (2)
SEER (only applicable to EBLQ)					3.85	3.89	3.90	3.85	3.89	3.90
Dimensions	Unit	HeightxWidthxDepth		mm	1,348x1,160x380					
Weight	Unit			kg	151 (-CV3) / 157 (-C3V3)			154 (-CW1) / 160 (-C3W1)		
Operation range (3)	Heating	Ambient	Min.~Max.	°CWB	-25~35					
		Water side	Min.~Max.	°C	25~55					
Operation range (3) (only applicable to EBLQ)	Cooling	Ambient	Min.~Max.	°CDB	10~46					
		Water side	Min.~Max.	°C	5~22					
Operation range (3)	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~35					
		Water side	Min.~Max.	°C	25~80					
Refrigerant	Type				R-410A					
	GWP				2087.5					
	Charge			kg	3.40					
	Charge			TCO2Eq	7.10					
	Control				Expansion valve (electronic type)					
Sound power level	Heating	Nom.		dBA	64		66	64		66
	Cooling	Nom.		dBA	64	66	69	64	66	69
Sound pressure level	Heating	Nom.		dBA	51		52	51		52
	Cooling	Nom.		dBA	50	52	54	50	52	54

Wiring centre				EKCB07CV3	EK2CB07CV3
Casing	Colour			White	
	Material			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	mm	360x340x97.0	
Weight	Unit		kg	4.00	

Back-up heater kit	Only for -CV3 , -CW1			EKMBUHC3V3	EKMBUHC9W1
Casing	Colour			White	
	Material			Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth	mm	560x250x210	
Weight	Unit		kg	11.0	13.0

(1) Condition 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) Condition 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) | (3) Including back-up heater and/or booster heater, see details in databook.

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