

Daikin Altherma high temperature

Why choose a Daikin Altherma high temperature split

The Daikin Altherma high temperature split is the perfect heating solution to upgrade an old heating and hot water system to achieve more cost savings and energy efficiency, without replacing the existing piping and radiators

✓ Comfort

Best for renovation projects

Air-to-water high temperature heat pumps are ideal for renovations and replacing old boilers. Daikin Altherma high temperature split's compact design requires minimal installation space and integrates seamlessly with your existing piping and radiators. Minimal installation ensures you can enjoy the energy efficiency of a heat pump without having to replace your entire system.

- › Easy replacement: reuse existing piping/radiators
- › Reduced installation time
- › Limited installation space needed as the indoor unit and domestic hot water tank can be stacked together
- › No need to change existing radiators and piping as water temperatures can be increased up to 80°C for heating and domestic hot water use

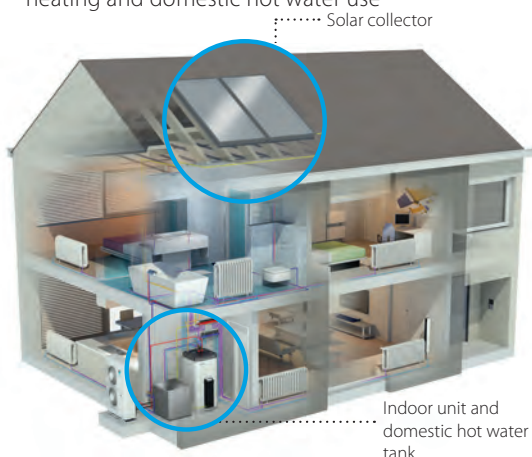
Whether your customer wants only domestic hot water or the advantage of solar energy, Daikin offers a wide range of options, including:

Stainless steel domestic hot water tank

The domestic hot water tank can be stacked on top of the indoor unit to save space, or installed next to each other if space is available.

- › Available in 200 or 250 litres
- › Efficient temperature heating: from 10°C – 50°C in only 60 minutes*

*Test completed with a 16 kW outdoor unit at ambient temperature of 7°C for a 200 litre tank



ECH₂O thermal store: hot water savings with solar energy

Combine the Daikin Altherma heat pump with a thermal store to reduce energy costs by taking advantage of the sun's renewable energy. Built for small and large homes, customers can choose from a pressureless or pressurised hot water system.



Energy efficiency

Powered by renewable energy

Powered by **65% renewable energy** extracted from the air and 35% electricity, our Daikin Altherma high temperature heat pump provides heating and hot water with A+ energy efficiency.



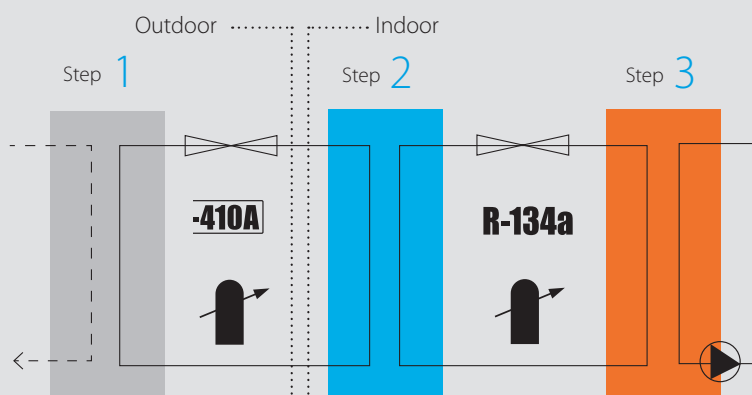
Reliability

The Daikin Altherma high temperature split optimises its technology to deliver reliable year-round comfort, even in the most extreme climates.

- › 11-15 kW capacities
- › Low running costs and optimum comfort at even the coldest outdoor temperatures, thanks to the unique cascade compressor approach
- › Works with existing high temperature radiators up to 80°C without an additional backup heater

Cascade technology

High performance heating in 3 steps to achieve 80°C water temperature without using an additional backup heater



- 1 The **outdoor unit** extracts heat from the ambient outdoor air. This heat is transferred to the indoor unit via R-410A refrigerant
- 2 The **indoor unit** increases the temperature with R-134a refrigerant
- 3 The **refrigerant circuit** transfers the heat to the water in the system

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Floor standing heating only air to water heat pump combinable with existing radiators

- › Energy efficient heating only system based on air to water heat pump technology
- › Single phase floor standing indoor unit up to 16kW
- › Three phase floor standing indoor unit up to 16kW
- › High temperature application: up to 80°C without electric heater
- › Easy replacement of existing boiler, without changing heating pipes
- › Combinable with high temperature radiators
- › Low energy bills and low CO2 emissions
- › Inverter controlled scroll compressor



Efficiency data			EKHBRD + ERRQ	011ADV1 + 011AV1	014ADV1 + 014AV1	016ADV1 + 016AV1	011ADY1 + 011AY1	014ADY1 + 014AY1	016ADY1 + 016AY1
Space heating	Average climate water outlet 55°C	General	SCOP	2.65	2.66	2.61	2.65	2.66	2.61
			ηs (Seasonal space heating efficiency) %	103	104	102	103	104	102
	Average climate water outlet 35°C	General	SCOP	2.70	2.81	2.88	2.70	2.81	2.88
			ηs (Seasonal space heating efficiency) %	105	110	112	105	110	112
			Seasonal space heating eff. class	A+					
			Seasonal space heating eff. class	C	B		C	B	
Heating capacity	Nom.		kW	11.3(1) / 11.0(2) / 11.2(3)	14.5(1) / 14.0(2) / 14.4(3)	16.0(1) / 16.0(2) / 16.0(3)	11.3(1) / 11.0(2) / 11.2(3)	14.5(1) / 14.0(2) / 14.4(3)	16.0(1) / 16.0(2) / 16.0(3)
Power input	Heating	Nom.	kW	3.80(1) / 4.40(2) / 2.67(3)	5.02(1) / 5.65(2) / 3.87(3)	5.86(1) / 6.65(2) / 4.31(3)	3.80(1) / 4.40(2) / 2.67(3)	5.02(1) / 5.65(2) / 3.87(3)	5.86(1) / 6.65(2) / 4.31(3)
COP				2.97(1) / 2.50(2) / 4.20(3)	2.89(1) / 2.48(2) / 3.72(3)	2.73(1) / 2.41(2) / 3.72(3)	2.97(1) / 2.50(2) / 4.20(3)	2.89(1) / 2.48(2) / 3.72(3)	2.73(1) / 2.41(2) / 3.72(3)

Indoor Unit		EKHBRD	011ADV1	014ADV1	016ADV1	011ADY1	014ADY1	016ADY1	
Casing	Colour	Metallic grey							
	Material	Precoated sheet metal							
Dimensions	Unit	HeightxWidthxDepth	705x600x695						
Weight	Unit		144				147		
Operation range	Heating	Ambient	Min.~Max. °C						
		Water side	Min.~Max. °C						
	Domestic hot water	Water side	Min.~Max. °C						
Refrigerant	Type	R-134a							
	Charge	kg	2.60						
	Charge	TCO2Eq	3,718.000						
	GWP		1,430						
Sound pressure level	Nom.	dBA	43.0 / 46.0 / 0.00 / 0.00	45.0 / 46.0 / 0.00 / 0.00	46.0 / 46.0 / 0.00 / 0.00	43.0 / 46.0 / 0.00 / 0.00	45.0 / 46.0 / 0.00 / 0.00	46.0 / 46.0 / 0.00 / 0.00	
	Night quiet Level 1 mode	dBA	40 / 0 / 0	43 / 0 / 0	45 / 0 / 0	40 / 0 / 0	43 / 0 / 0	45 / 0 / 0	

Outdoor Unit		ERRQ	011AV1	014AV1	016AV1	011AY1	014AY1	016AY1	
Dimensions	Unit	HeightxWidthxDepth	1,345x900x320						
Weight	Unit		120						
Compressor	Quantity		1						
	Type		Hermetically sealed scroll compressor						
Operation range	Heating	Min.~Max.	°CWB						
	Domestic hot water	Min.~Max.	°CDB						
Refrigerant	Type		R-410A						
	GWP		2,087.5						
	Charge	kg	4.5						
	Charge	TCO2Eq	9.4						
Sound power level	Heating	Nom.	dBA	68	69	71	68	69	71
	Heating	Nom.	dBA	52	53	55	52	53	55
Power supply	Name/Phase/Frequency/Voltage	Hz/V	V1/1~/50/220-240				Y1/3~/50/380-415		
Current	Recommended fuses	A	25				16		

(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) 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) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases

	Type	Material name
Controls	Remote user interface	EKRUAHTB
	Room thermostat (wired)	EKRTWA
	Room thermostat (wireless)	EKRTR1
	Standard protocol interface for HT and Flex Type	RTD-W
Adapter	Centralised controller kit	EKCC-W
	Demand PCB	EKR1AHTA
Back-up heater	Digital I/O PCB	EKR1HBAA
	Back-up heater for HT 1~	EKBUHAA6V3
	Back-up heater for HT 3~	EKBUHAA6W1
Installation	Bottom plate heater	EKBPH16A
	UK tank kit	EKUHWHTA
	Stand alone kit	EKFMAHTB
Sensor	External sensor	EKRTETS
Valve	Refrigerant stop valves	EKRSHHTA
Others	Compatibility kit 1	EKMKHT1A
	Compatibility kit 2	EKMKHT2A

