

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

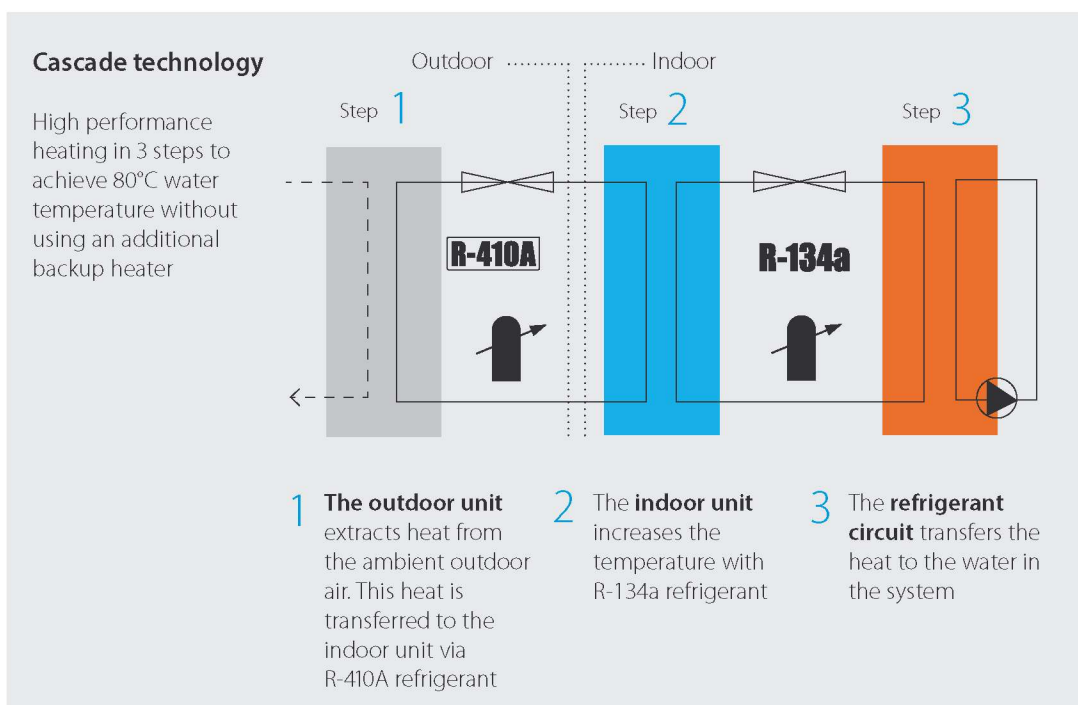
Powered by **65% renewable energy** extracted from the air and 35% electricity, our Daikin Altherma high temperature heat pump provides heating and hot water with A+ energy efficiency.



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



Daikin Altherma high temperature split



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



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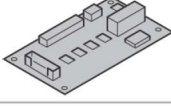
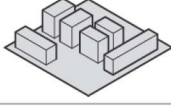


Efficiency data				EKHBRD + ERRQ/ERSQ		011ADV17 + ERRQ011AV1	011ADV17 + ERSQ011AV1	014ADV17 + ERRQ014AV1	014ADV17 + ERSQ014AV1	016ADV17 + ER(R/S) Q016AV1	011ADY17 + ERRQ011AY1	011ADY17 + ERSQ011AY1	014ADY17 + ERRQ014AY1	014ADY17 + ERSQ014AY1	016ADY17 + ER(R/S) Q016AY1
Heating capacity	Nom.	kW		11.3 (1) / 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)	3.87 (1) / 4.40 (2) / 2.67 (3)	5.02 (1) / 5.65 (2) / 3.87 (3)	5.09 (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)	3.87 (1) / 4.40 (2) / 2.67 (3)	5.02 (1) / 5.65 (2) / 3.87 (3)	5.09 (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)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (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)	2.92 (1) / 2.50 (2) / 4.20 (3)	2.89 (1) / 2.48 (2) / 3.72 (3)	2.85 (1) / 2.48 (2) / 3.72 (3)	2.73 (1) / 2.41 (2) / 3.72 (3)
Space heating	Average climate water outlet 55°C	General	SCOP	2.96		2.98		3.01		2.96		2.98		3.01	
			η _s (Seasonal space heating efficiency)	115		116		117		115		116		117	
	Average climate water outlet 35°C	General	SCOP	2.70		2.81		2.88		2.70		2.81		2.88	
			η _s (Seasonal space heating efficiency)	105		110		112		105		110		112	
Seasonal space heating eff. class				C		B		C		C		B		B	

Indoor Unit				EKHBRD	011ADV17	014ADV17	016ADV17	011ADY17	014ADY17	016ADY17
Casing	Colour	Metallic grey								
	Material	Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm		705x600x695					
Weight	Unit	kg		144		147				
Operation range	Heating	Ambient	Min.~Max.	°C		-20.0 / 0.00 ~20				
		Water side	Min.~Max.	°C		25~80.0				
	Domestic hot water	Ambient	Min.~Max.	°CDB		-20.0 ~35.0				
Refrigerant	Type	R-134a								
	Charge	kg		2.60						
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 mode Level 1	dBA		40.0 / 0.00 / 0.00	43.0 / 0.00 / 0.00	45.0 / 0.00 / 0.00	40.0 / 0.00 / 0.00	43.0 / 0.00 / 0.00	45.0 / 0.00 / 0.00	

Outdoor Unit				ERRQ-011AV1	ERSQ-011AV1	ERRQ-014AV1	ERSQ-014AV1	ERRQ/ERSQ-016AV1	ERRQ-011AY1	ERSQ-011AY1	ERRQ-014AY1	ERSQ-014AY1	ERRQ/ERSQ-016AY1	
Dimensions	Unit	HeightxWidthxDepth	mm		1,345x900x320									
Weight	Unit	kg		120										
Compressor	Quantity	1												
	Type	Hermetically sealed scroll compressor												
Operation range	Heating	Min.~Max.	°CWB		-20~20									
	Domestic hot water	Min.~Max.	°CDB		-20~35									
Refrigerant	Type	R-410A												
	GWP	2,087.5												
	Charge	kg		4.5										
	Charge	TCO ₂ Eq		9.4										
Control				Expansion valve (electronic type)										
Sound power level	Heating	Nom.	dBA		68	69	71	68	69	71	68	69	71	
Sound pressure level	Heating	Nom.	dBA		52	53	55	52	53	55	52	53	55	
Power supply	Name/Phase/Frequency/Voltage	Hz/V		V1/1~/50/220-440					Y1/3~/50/380-415					
Current	Recommended fuses	A		25					16					

(1)EW 55°C; LW 65°C; Dt 10°C; ambient conditions: 7°CDB/6°CWB | (2)EW 70°C; LW 80°C; Dt 10°C; ambient conditions: 7°CDB/6°CWB | (3)EW 30°C; LW 35°C; Dt 5°C; ambient conditions: 7°CDB/6°CWB | Contains fluorinated greenhouse gases

Type	Material name		
Remote user interface	EKRUHTB		
Controls	Room thermostat (wired)	EKRTWA	
	Room thermostat (wireless)	EKRTR1	
	Standard protocol interface for HT and Flex Type	RTD-W	
	Centralised controller kit	EKCC-W	
Adapter	Demand PCB	EKRP1AHTA	
	Digital I/O PCB	EKRP1HBAA	
Back-up heater	Back-up heater for HT 1~	EKBUHAA6V3	
	Back-up heater for HT 3~	EKBUHAA6W1	
	Bottom plate heater	EKBPHTH16A	
Installation	UK tank kit	EKUHWHHTA	
	Stand alone kit	EKFMAHTB	
Sensor	External sensor	EKRTETS	
Valve	Refrigerant stop valves	EKRSVHTA	
Others	Compatibility kit 1	EKMKHT1A	
	Compatibility kit 2	EKMKHT2A	

