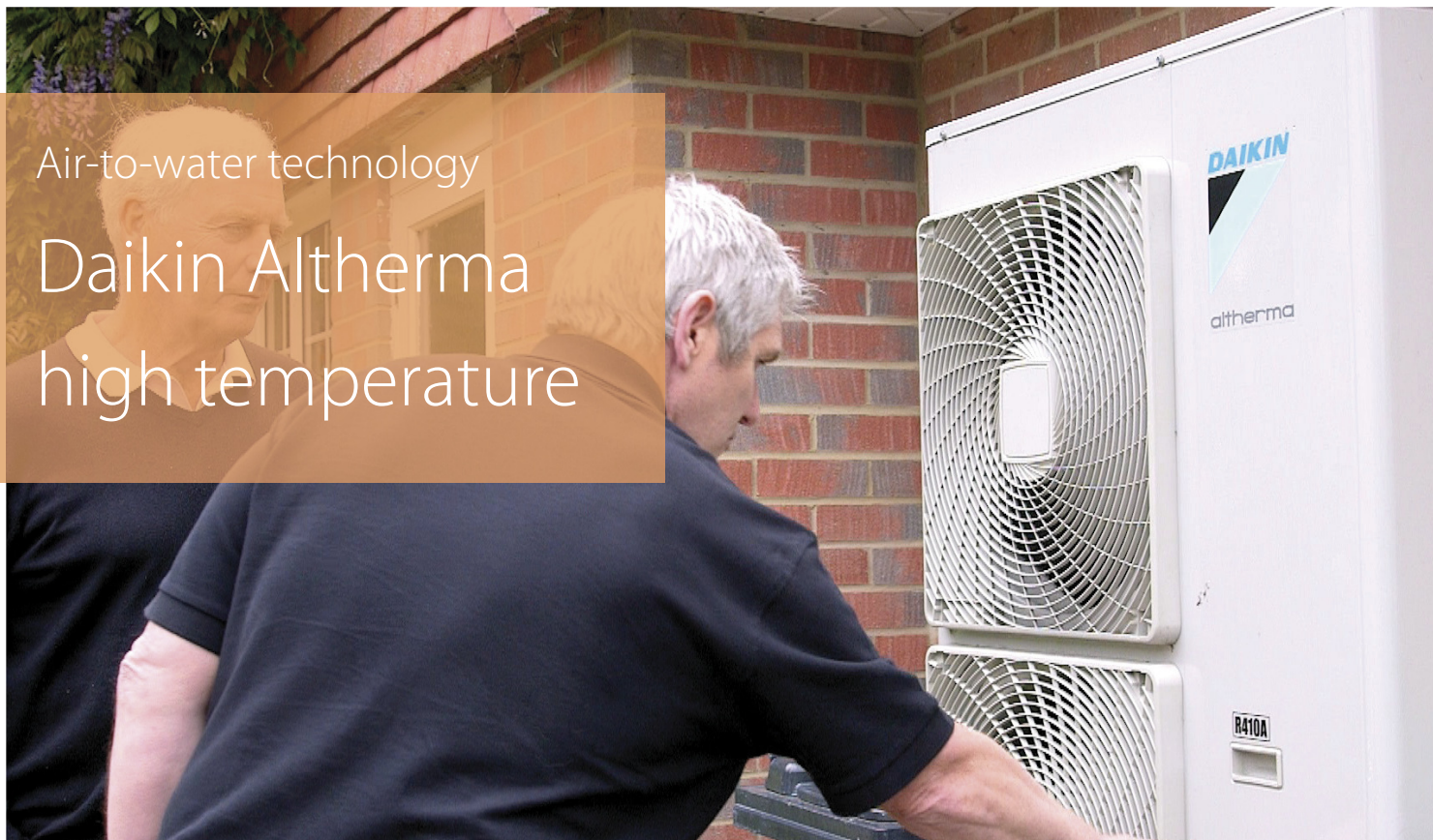


The efficient way to replace a boiler

Daikin Altherma High Temperature
heat pump for the installer





Air-to-water technology

Daikin Altherma high temperature

Why choose Daikin Altherma high temperature?

Your customer requires a new heating system that:

- › Must work with existing high temperature radiators
- › Must replace the existing boiler

Your solution - the Daikin Altherma high temperature:

- › Provides heating and domestic hot water with optional solar support
- › Is available in capacities from 11 to 16 kW depending on requirements
- › Works with existing high temperature radiators up to 80°C without additional back-up heater

Your customer gains:

- › Optimal comfort plus domestic hot water
- › Low operating costs due to high efficiencies

You gain:

- › Reduced installation time as a result of not having to replace radiators and piping
- › Simple commissioning

Result: win-win for you AND the customer

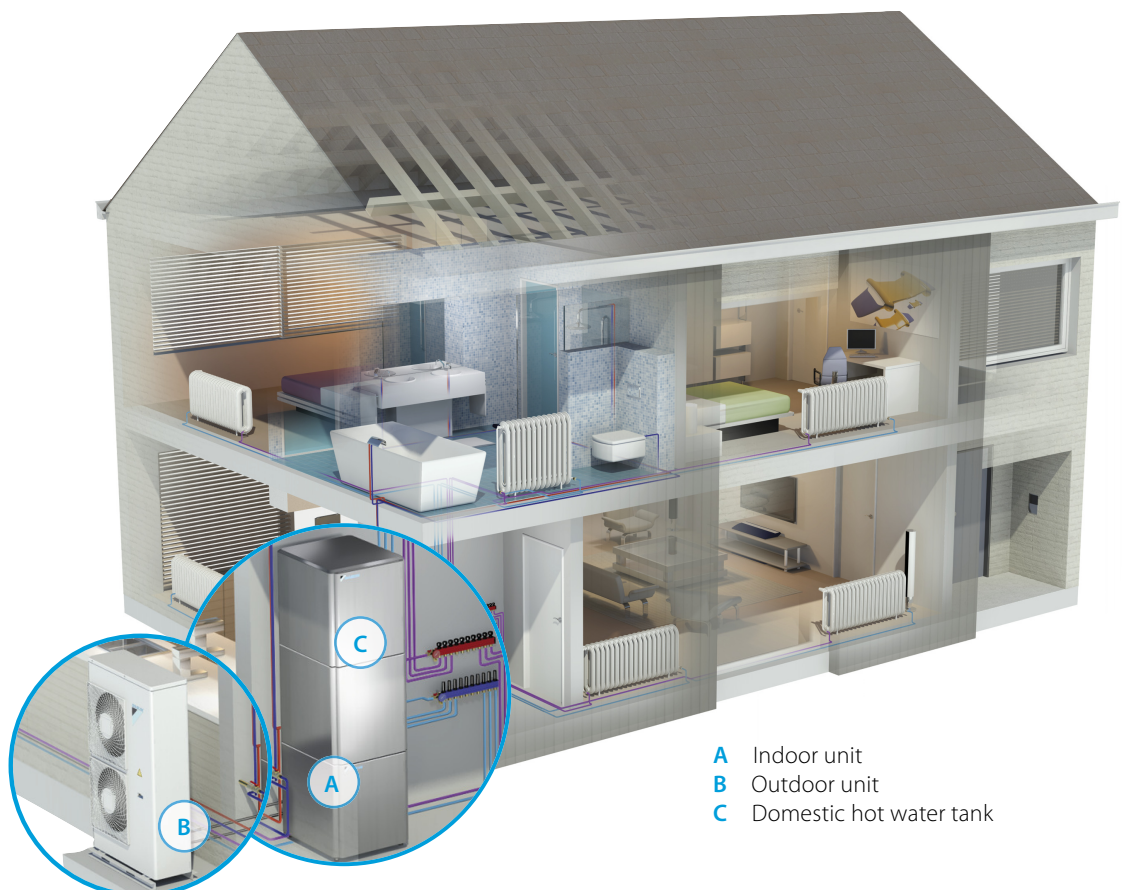


MCS HP0006

For replacement of oil boilers

Daikin Altherma high temperature system offers heating and domestic hot water for your home. This system can replace a traditional boiler and simply connect to the existing piping. Daikin Altherma high temperature is therefore the ideal solution for renovations. The split system consists of an outdoor unit and an indoor unit and can be complemented with solar connection.

- › Low running costs and optimum comfort at even the coldest outdoor temperatures, thanks to the unique cascade compressor approach
- › No need to change your existing radiators and piping as water temperatures can be increased up to 80°C for heating and domestic hot water use
- › Only limited installation space needed as the indoor unit and domestic hot water tank can be stacked on each other



Outdoor unit and indoor unit

Outdoor unit

Daikin Altherma high temperature uses 100% thermodynamic energy to obtain water temperatures **up to 80°C** without using an additional heater.



Indoor unit

- > Available in heating only applications
- > No back-up heater required thanks to cascade technology

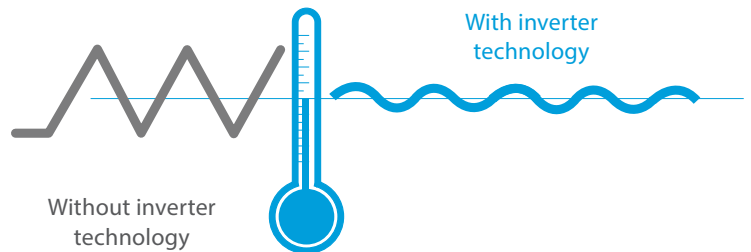


1. Heat exchanger R-134a ↔ H₂O
2. Heat exchanger R-410A ↔ R-134a
3. Pump (DC-inverter to maintain fixed ΔT)
4. Compressor R-134a
5. Air purge
6. Manometer
7. Expansion vessel (12l)

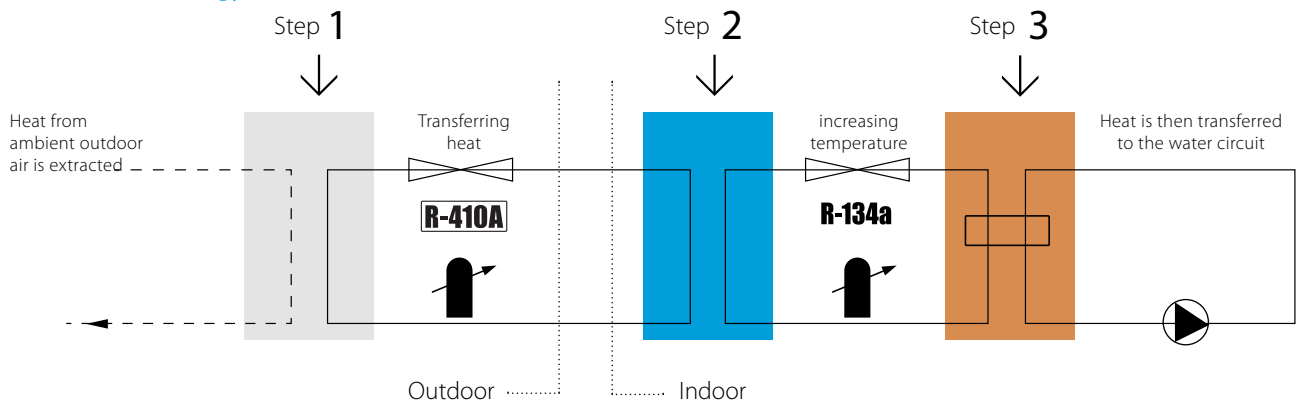
Inverter control means even more savings!

The inverter constantly adapts your system to actual heating demand. No need to fiddle with settings: the programmed temperature is optimally maintained regardless of outdoor and indoor factors such as the amount of sunlight, the number of people in the room, etc. This results in unparalleled comfort, prolonged system life since it's only in operation when needed, and 30% additional savings in energy costs compared to non-inverter heat pumps.

Heating operation:



Cascade technology



✓ Domestic hot water tank

Whether your customer wants domestic hot water only or the advantage of solar energy, Daikin offers you the domestic hot water tank that meets their requirements.

The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available.



EKHTSU: Domestic hot water tank

- › Available in 200 and 260 litres
- › Efficient temperature heat-up: from 15°C to 60°C in only 40 minutes*
- › Heat loss is reduced to a minimum, thanks to the high quality insulation
- › ErP rating B

* Test done with a 16kW outdoor unit and a 200L tank

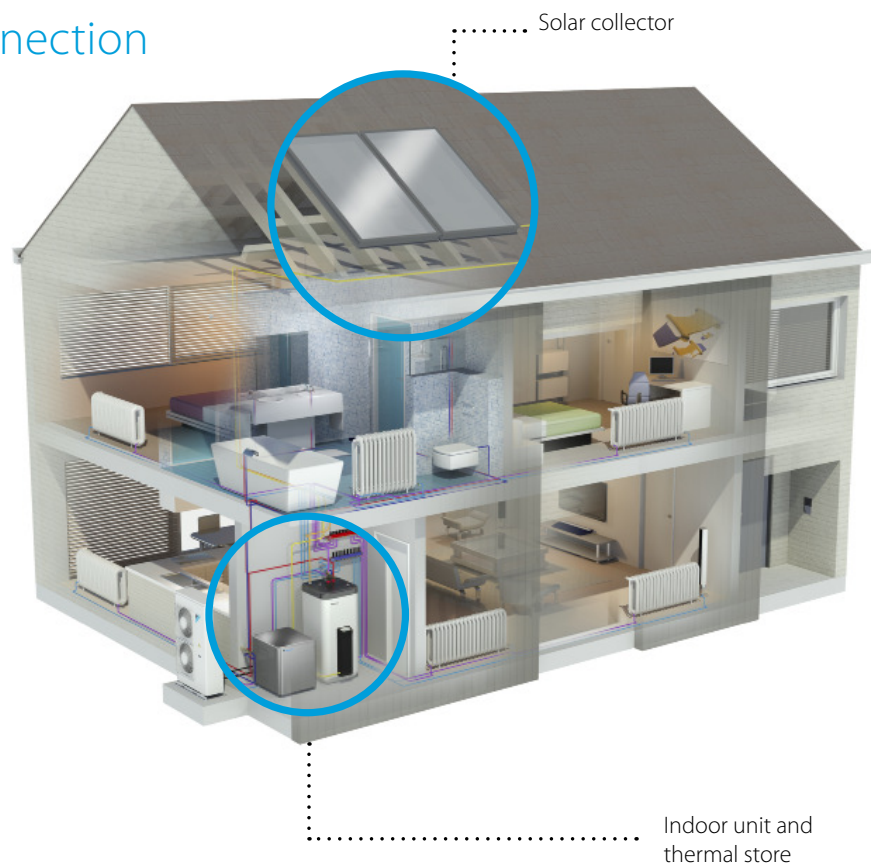
EKHWP: Thermal Store

The thermal store has two sections:
The upper, always hot, section – the active water zone – and the lower, colder section – the solar zone.
The active water is heated in the upper section of the storage tank. The high temperature of this zone ensures that sufficient hot water is always available.

Solar collectors work more efficiently when colder water flows through them. Therefore, the water that is fed directly to the solar collectors in solar operation is stored in the solar zone.

- › ErP rating B

✓ Solar connection



Daikin Altherma high temperature split



ER(S)Q-AV1/Y1

EKHBRD_ADV1/Y1

EKHBRD-AD + ERSQ-A

Efficiency data				EKHBRD + ERSQ	011ADV1 + 011AV1	014ADV1 + 014AV1	016ADV1 + 016AV1	011ADY1 + 011AY1	014ADY1 + 014AY1	016ADY1 + 016AY1	
Heating capacity	Nom.			11.00 (1/11.00 (2/11.00 (3/11.20 (3	14.00 (1/14.00 (2/14.00 (3/14.40 (3	16.00 (1/16.00 (2/16.00 (3	11.00 (1/11.00 (2/11.00 (3/11.20 (3	14.00 (1/14.00 (2/14.00 (3/14.40 (3	16.00 (1/16.00 (2/16.00 (3		
Power input	Heating	Nom.		3.57 (1/4.40 (2/2.61 (3/2.67 (3	4.66 (1/5.65 (2/3.55 (3/3.87 (3	5.57 (1/6.65 (2/4.31 (3	3.57 (1/4.40 (2/2.61 (3/2.67 (3	4.66 (1/5.65 (2/3.55 (3/3.87 (3	5.57 (1/6.65 (2/4.31 (3		
Space heating	Average climate water outlet 55°C	General	SCOP	2.65	2.66	2.61	2.65	2.66	2.61		
			η_s (Seasonal space heating eff.) %	103	104	102	103	104	102		
		Seasonal space heating eff. class	A+								
	Average climate water outlet 35°C	General	SCOP	2.70	2.68	2.88	2.70	2.68	2.88		
		η_s (Seasonal space heating eff.) %	105	104	112	105	104	112			
		Seasonal space heating eff. class	B								
Indoor Unit				EKHBRD	011ADV1	014ADV1	016ADV1	011ADY1	014ADY1	016ADY1	
Casing	Colour	Metallic grey									
	Material	Precoated sheet metal									
Dimensions	Unit	HeightxWidthxDepth	mm	705x600x695							
Weight	Unit		kg	144			147				
Operation range	Heating	Ambient	Min.~Max.	-20~20			-20~20				
		Water side	Min.~Max.	25~80			25~80				
	Domestic hot water	Ambient	Min.~Max.	-20~35			-20~35				
		Water side	Min.~Max.	25~80			25~80				
Refrigerant	Type	R-134a									
	Charge		kg	2.6							
			TCO ₂ eq	3.718							
	GWP	1,430									
Outdoor Unit				ERSQ/ERRQ	011AV1	014AV1	016AV1	011AY1	014AY1	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									
	Charge		kg	4.5							
			TCO ₂ eq	9.4							
	GWP	2,087.5									
	Control	Expansion valve (electronic type)									
Sound power level	Heating	Nom.	dBA	68	69	71	68	69	71		
Sound pressure level	Heating	Nom.	dBA	52	53	55	52	53	55		
Power supply	Name/Phase/Frequency/Voltage			V1/1~/50/220-440				Y1/3~/50/380-415			
Current	Recommended fuses			A			25			16	

Domestic hot water tank



EKHTS260AC

EKHTS200AC

EKHTSU-AC

Accessory				EKHTSU 200AC	EKHTSU 260AC
Casing	Colour	Metallic grey			
	Material	Galvanised steel (precoated sheet metal)			
Dimensions	Unit	Height	Integrated on indoor unit	mm	2,010
		Width			
	Depth	695			
Weight	Unit	Empty		kg	70
Energy efficiency class	B				
Standing heat loss	W				
Tank	Storage volume	l			
	Material	Stainless steel (EN 1.4521)			
	Maximum water temperature	°C			
Heat exchanger	Insulation	Heat loss	kWh/24h		1.2
	Quantity	1			
	Tube material	Duplex steel (EN 1.4162)			
	Face area	m ²			
	Internal coil volume	l			

Options for Altherma high temperature



EKRTWA

EKRTTR

EKRTW/EKRTTR

Accessory				EKRTTR1	EKRTWA
Dimensions	Unit	HeightxWidthxDepth	mm	87x125x34	
	Receiver	HeightxWidthxDepth	mm	170x50x28	-
Weight	Unit	g			
	Thermostat	g			
	Receiver	g			
Ambient temperature	Storage	Min./Max.	°C		
	Operation	Min./Max.	°C		
Temperature setting range	Heating	Min./Max.	°C		
	Cooling	Min./Max.	°C		
Clock	Yes				
Regulation function	Proportional band				
Power supply	Voltage	V			
	Thermostat	Voltage	V		
	Receiver	Voltage	V		
	Frequency	Hz			
	Phase	-			
Connection	Type	-			
	Thermostat	Wireless			
	Receiver	Wired			
Maximum distance to receiver	Indoor	m			
	Outdoor	m			
Control systems	Class of temperature control	IV			
	Contribution to seasonal space heating efficiency	%			



Trust Daikin

Daikin makes world-class heat pumps. In fact, more than 250,000 Daikin Altherma heat pumps have been fitted across Europe since its initial launch in 2006.

We focus on doing only what we're best at: creating the most efficient heating, ventilation and air conditioning solutions, renowned for design excellence, quality and reliability.

So you can depend on Daikin for the ultimate in comfort, for your customers, leaving you free to focus growing your business with a leading innovator in heating and renewable technologies.

More than 250,000 Daikin Altherma heat pumps have been fitted across Europe since its initial launch in 2006.

daikin.co.uk

Heating installer line: 0845 641 9070

Dedicated homeowner support line: 0845 641 9271

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