DAIKIN

altherma

Daikin Altherma Hybrid

hydrosplit heat pump

The right balance

Why choose Daikin Altherma Hybrid heat pump?

TIME TO RETHINK HEATING

- **Automatic switch** between heat pump, gas boiler or hybrid operations - always selecting the most economical mode.
- **Low running costs** for heating and hot water compared to traditional boilers
- Heat your existing home with **up to 60% renewable energy** without changing your radiators
- Ideal for **renovation** applications
- **Easy and fast** installation
- Secure for future changes in gas and electricity prices
- **Low cost of investment** and a **higher return** than a typical savings account

It's simple really – the Daikin Altherma Hybrid heat pump, with its use of a gas condensing boiler to deliver superior performance, offers a high level of all-year-round comfort with optimal use of the different technologies.

It is programmed to automatically select the right mix of the technologies to maximise the energy efficiency and deliver perfect comfort levels.

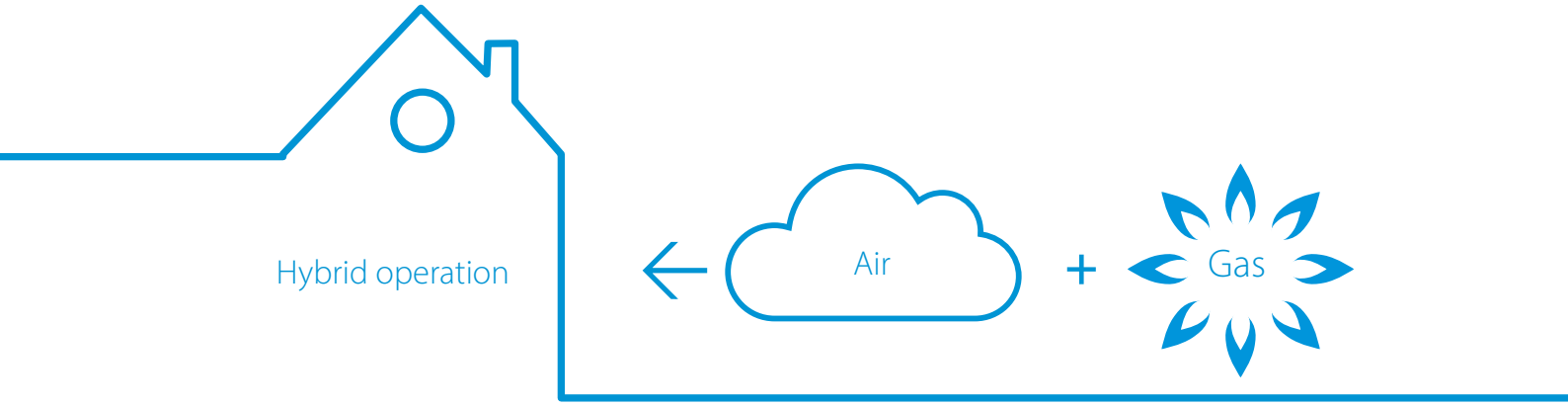
What is an air-to-water heat pump?

The Daikin Altherma air-to-water heat pump uses a sustainable and renewable energy source. It extracts free heat from the outside air. In a closed loop containing a refrigerant, a thermodynamic cycle is created through evaporation, condensation, compression and expansion. This thermodynamic process will bring free heat from outside to the inside of your house.

What is condensing boiler technology?

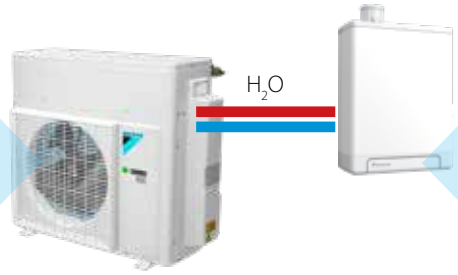
Condensing boiler technology converts waste energy from the flue gases into usable heat, virtually without loss. This is good for both the environment and your wallet. Lower energy consumption means lower heating costs, less use of energy resources and a reduction in CO_2 emissions.

How does it work? Flue gas is cooled, condensing the steam it contains. The energy released in this process is used as heating energy.

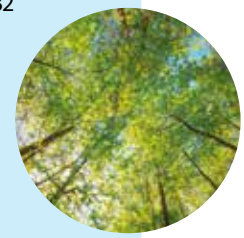


The hydrosplit concept,
The best of 2 worlds

Heat pump **Condensing Boiler**



Environmentally friendly
› Reduced environmental impact thanks to the usage of **R-32 refrigerant**
› Outdoor unit with **sealed refrigerant circuit**, which greatly reduces the risk of refrigerant leakage



Easy & Quick installation
All hydraulics components are outside.

No F-gas licence required
Only water connections between outdoor and indoor unit. Therefore no F-gas certification is needed for the installer.

Safety in every conditions
The unit can work down to -15°C outside thanks to multiple freeze-up protections

Flexible installation
Compact indoor unit can be installed in a cupboard.

Condensing technology
The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost savings and environmentally-friendly operation.

Plug & play
No need of other parts, the pump group is integrated inside.

BLUEVOLUTION
The Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R-32.

EHY2KOMB-A + EJHA-AV3

Daikin Altherma Hybrid hydrosplit heat pump

Hybrid technology combining condensing gas and air to water heat pump for heating and hot water

- Heating only models
- Depending on outdoor temperature, energy prices and internal heat load, the Daikin Altherma Hybrid hydrosplit heat pump always selects the most economical mode to operate
- Low investment cost: no need to replace the existing radiators (up to 80°C) and pipe work
- Provides sufficient heat in renovation applications as all heat loads are covered up to 32kW
- Easy and fast installation thanks to the compact dimensions and water connections

A++ A R-32

Efficiency data					EHY2KOMB28AA + EJHA04AAV3	EHY2KOMB32AA + EJHA04AAV3
Heating capacity	Nom.			kW	3.83 (1)	
Power input	Heating	Nom.		kW	0.85 (1)	
COP					4.49 (1)	
Space heating	Average climate water outlet 55°C	General	SCOP		3.26	3.28
			ηs (Seasonal space heating efficiency)	%	127.6	128.1
			Seasonal space heating eff. class		A++	
Space heating	Average climate water outlet 35°C	General	SCOP		4.14	4.15
			ηs (Seasonal space heating efficiency)	%	162.6	163
			Seasonal space heating eff. class		A++	
Domestic hot water heating	General	Declared load profile			XL	
	Average climate	ηwh (water heating efficiency)		%	87	
		Water heating energy efficiency class			A	

Indoor unit					EHY2KOMB28AA	EHY2KOMB32AA
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW	8.0 / 26.3	8.3 / 30.0
	Output Pn at 80/60°C	Min/Nom		kW	7.1 / 23.1	7.4 / 26.6
	Efficiency	Net calorific value 80/60		%	97	98
	Efficiency	Net calorific value 37/30 (30%)		%	>107	
	Operation range	Min/Max		°C	30 / 90	
Domestic hot water	Output	Min/Nom		kW	7.2 / 29.1	7.6 / 32.7
	Water flow	Rate 60°C	Nom	l/min	7.5	9.0
	Water flow	Rate 40°C	Nom	l/min	12.5	15.0
	Operation range	Min/Max		°C	40/65	
Gas	Connection	Diameter		mm	15	
	Consumption (G20)	Min/Max		m^3/h	0.74 / 3.02	0.79 / 3.39
	Consumption (G31)	Min/Max		m^3/h	0.28 / 1.15	0.30 / 1.19
Supply air	Connection			mm	100	
	Concentric				1	
Flue gas	Connection			mm	60	
Casing	Colour				White - RAL9010	
	Material				Precoated sheet metal	
Dimensions	Unit	HxWxD	Casing	mm	650x450x240	710x450x240
Weight	Unit	Empty		kg	33	36
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/230	
Electrical power consumption	Max.			W	110	
	Standby			W	2	

Outdoor unit					EJHA04AAV3
Dimensions	Unit		HxWxD	mm	745x845x329
Weight	Unit			kg	45
Compressor	Quantity				1
	Type				Hermetically sealed swing compressor
Operation range	Heating		Min.~Max.	°CWB	-15~25
Refrigerant	Type				R-32
	GWP				675
	Charge			kg	0.56
	Charge			TCO2Eq	0.38
Sound power level	Heating		Nom.	dBA	58.7
Sound pressure level	Heating		Nom.	dBA	37
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/220-240
Current	Recommended fuses			A	20

(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

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