



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.

Hybrid operation



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 CO₂ 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.



✓ Heating demand

The Daikin Altherma H Hybrid provides space heating as well as domestic hot water.

May the demand vary in quantity due to the family size or in temperature to fit your comfort, the unit will always operate in the most efficient way to provide the required heat load and temperature.



✓ Energy Prices

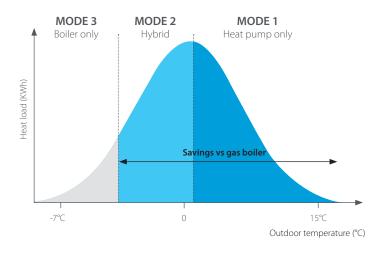
Managing the energy prices are crucial to ensure a lower energy bill. That's why the Daikin Altherma H Hybrid does it for you. By comparing the energy prices and making it match with your needs, the unit will make the right balance between the usage of gas or electricity. Therefore, you always use and pay the price of the most

cost-efficient energy as showed by the blue line:



☑ Outside Temperature

The last factor that will modify the way your hybrid solution will operate is the outside temperature on which you have naturally no power. The heat pump is a green solution that will help you heat your house and your domestic water most of the year. This is mainly during winter conditions that the boiler enters in action to support the system.



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

Easy & Quick installation

greatly reduces the risk of refrigerant leakage

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 freezeup protections



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.

Installation possibilities

The Daikin Altherma H Hybrid is made of an outdoor unit of 4 kW:



The Daikin Altherma Hybrid is made of a boiler of 28 or 32 kW:



For more domestic hot water production, you can combine the Daikin Altherma H Hybrid with multiple tank options:

Pressureless tanks with solar support

Connect your unit to a ECH₂O thermal store and take advantage of the energy of the sun.



Pressurized tanks

Connect your unit with our full range of stainless steel tanks to answer all needs



from 150 LT up to 300 LT

Controls

EKRUHML1/2

Control

- Manage space heating, cooling, domestic hot water and among others, booster mode
- User-friendly remote control with contemporary design
- Easy to use with direct accessibility to all main functions

Comfort

- An additional user interface can include a room thermostat in the space to be heated
- Easy commissioning: intuitive interface for advanced menu settings



Daikin Residential Controller

The Daikin Residential Controller app is a multifaceted programme that allows customers to control and monitor the status of their heating system.



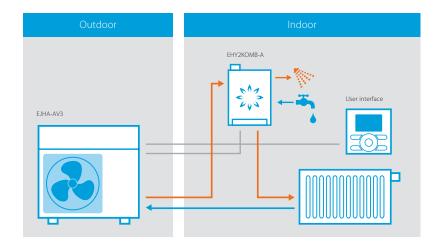
The installation of the LAN Adapter BRP069A61/62 is required.



Applications

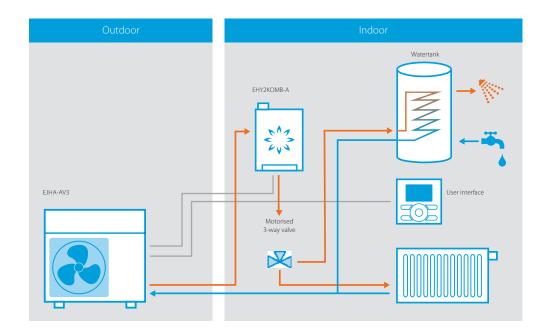
1. Standard hybrid operation

With this application, the system works in a perfect balance between the gas boiler and the heat pump to provide space heating and domestic hot water. Here, the boiler is able to heat directly the water without a tank.



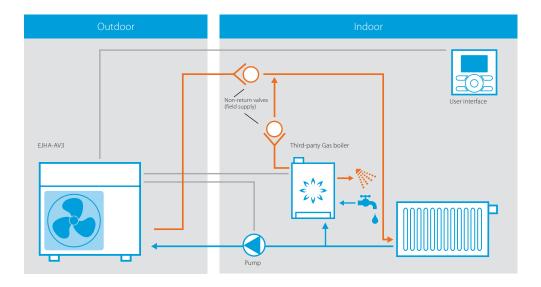
1.1 Standard hybrid operation with a tank

In this application, a domestic hot water tank can be added if the system needs to provide high quantity of domestic hot water produced either by the heat pump or by the hoiler



2. Add-on operation

The Daikin Altherma H
Hybrid outdoor unit can be
combined with an existing
boiler. In such application,
the system works in bivalent
operation, meaning that this
is strictly the heat pump or
the boiler that is providing
the required heat while in
the standard applications,
both can work at the same
time.



Daikin Altherma H Hybrid

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 H Hybrid 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

















Efficiency data					EHY2KOMB28AA + EJHA04AAV3	EHY2KOMB32AA + EJHA04AAV3
Heating capacity	Nom.			kW	3.83	3 (1)
Power input	Heating	Nom.		kW	0.83	5 (1)
COP	_				4.49	9 (1)
Space heating	Average climate General water outlet		SCOP		3.26	3.28
			ns (Seasonal space	%	128	
*	55°C		heating efficiency)			
			Seasonal space heating eff. class		A++	
Space heating	Average climate General water outlet 35°C		SCOP		4.14	4.15
			ns (Seasonal space	%	10	63
			heating efficiency)			
			Seasonal space heating eff.	class	A-	++
Domestic hot water heating	General	Declared load profile			Х	(L
	Average	ŋwh (water heating efficiency)		%	87	
	climate	Water heating energy efficiency class			A	
Indoor unit			·		EHY2KOMB28AA	EHY2KOMB32AA

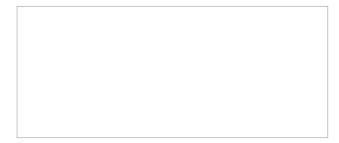
Indoor unit				EHY2KOMB28AA	EHY2KOMB32AA
Central heating	Heat input Qn (net Nom calorific value)	Min/Max	kW	7.1 / 23.7	7.6 / 27.0
	Output Pn at 80/60°C Nom		kW	23.1	26.6
	Efficiency Net calorifi	c value 80/60	%	98	99
	Efficiency Net calorific value 37/30 (30%) %			108	
	Operation range Min/Max			30 / 90	
Domestic hot water	Output Min/Nom		kW	7.2 / 29.1	7.6 / 32.7
	Water flow Rate 40°C	Nom	l/min	12.5	15.0
	Operation range Min/Max		°C	40/6	55
Gas	Connection Diameter m			15	
	Consumption (G20) Min/Max		m³/h	0.74 / 3.02	0.79 / 3.39
	Consumption (G31) Min/Max		m³/h	0.28 / 1.15	0.30 / 1.29
Supply air	Connection		mm	100)
	Concentric			1	
Flue gas	Connection		mm	60	
Casing	Colour			White - R.	AL9010
	Material			Precoated sh	neet metal
Dimensions	Unit HxWxD	Casing	mm	650x450x240	710x450x240
Weight	Unit Empty		kg	33	36
Power supply	Phase/Frequency/Voltage	ge	Hz/V	1~/50/230	
Electrical power	Max. W			110	
consumption	Standby W			2	

Consumption	Stariuby	andby		
Outdoor unit				EJHA04AAV3
Dimensions	Unit	HxWxD	mm	745x845x329
Weight	Unit		kg	45
Compressor	Quantity			1
	Туре			Hermetically sealed swing compressor
Operation range	Heating	Min.~Max.	°CWB	-15~25
Refrigerant	Туре			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		Α	20



Trust Daikin

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