



Daikin Altherma H Hybrid

Hybrid 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 H 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 new 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.



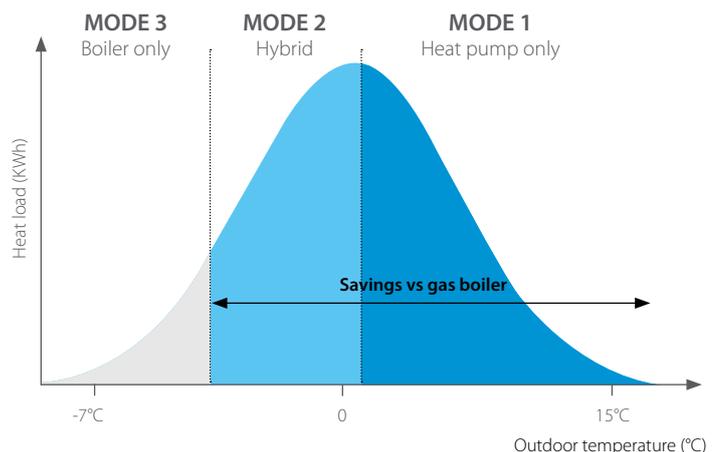
✓ Energy Prices

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 shown 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 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.

BLUEEVOLUTION

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

Installation possibilities

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



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



For more domestic hot water production, you can combine the Daikin Altherma Hybrid hydrosplit heat pump 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.



EKHWP-(P)B
300 LT or 500 LT

EKS(H/V)-P

Pressurized tanks

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



EKHWS-D3V3
from 150 LT up to 300 LT

Controls

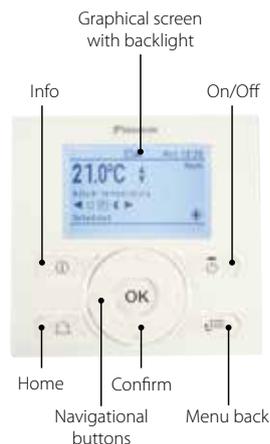
EKRUHML1/2

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

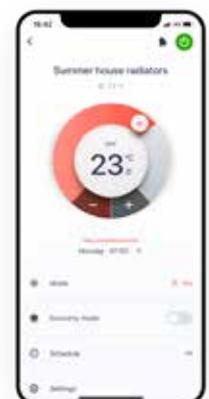
- › An additional user interface can include a room thermostat in the space to be heated
- › Easy commissioning: intuitive interface for advanced menu settings



Daikin Residential Controller app



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

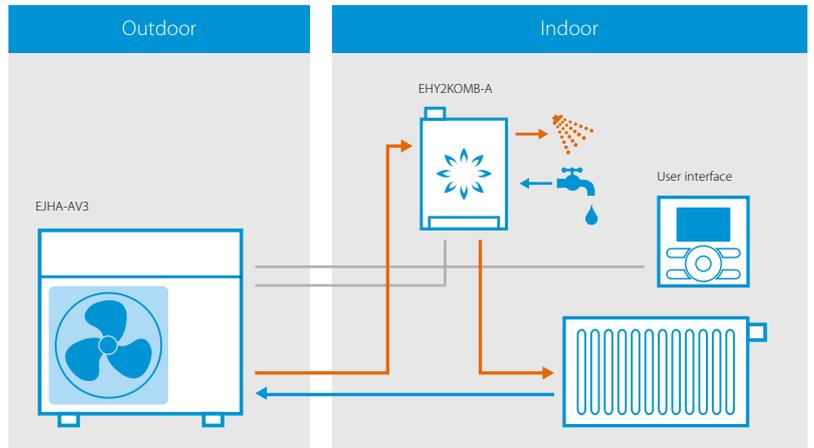


Control your heating system with your voice

Applications

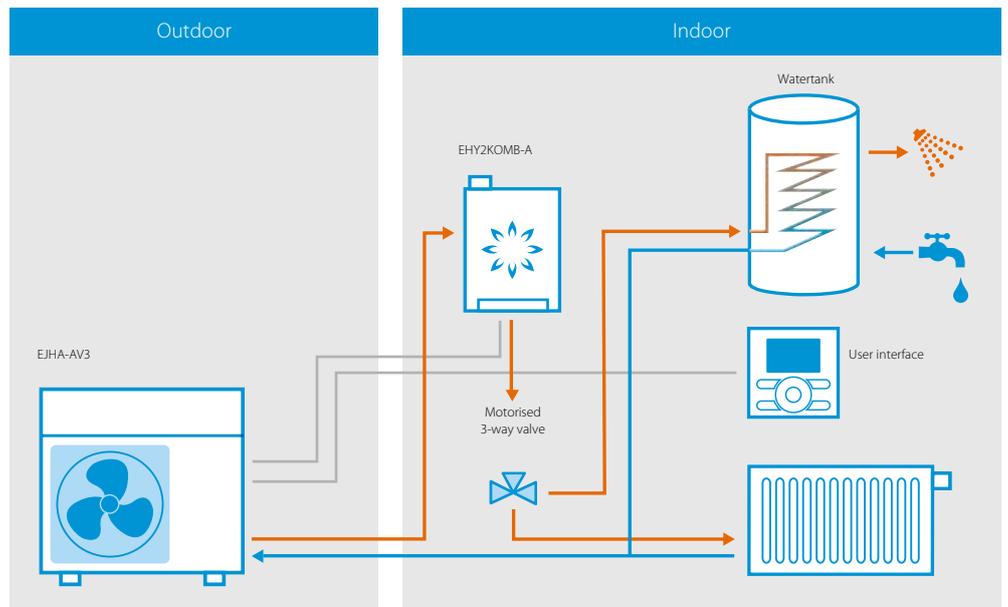
1. Standard hybrid operation

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.



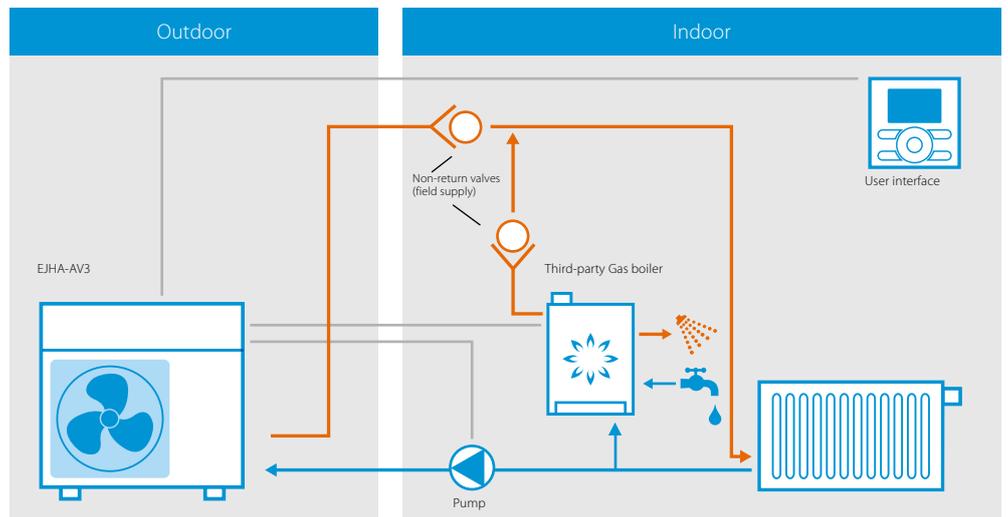
1.1 Standard hybrid operation with a tank

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 boiler.



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 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 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



011-1W0313
011-1W0314

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	General	SCOP	3.26		3.28	
			ηs (Seasonal space heating efficiency)			128	
			Seasonal space heating eff. class			A++	
Space heating	Average climate	General	SCOP	4.14		4.15	
			ηs (Seasonal space heating efficiency)			163	
			Seasonal space heating eff. class			A++	
Domestic hot water heating	General	Declared load profile				XL	
			Average	ηwh (water heating efficiency)		87	
			climate	Water heating energy efficiency class		A	
Indoor unit				EHY2KOMB28AA		EHY2KOMB32AA	
Central heating	Heat input Qn (net calorific value)	Nom	Min/Max	kW		7.1 / 23.7	
			Output Pn at 80/60°C	Min/Nom		kW	
			Efficiency	Net calorific value 80/60		%	
			Efficiency	Net calorific value 37/30 (30%)		%	
			Operation range	Min/Max		°C	
Domestic hot water	Output	Min/Nom		kW		7.1 / 29.1	
			Water flow	Rate 40°C		Nom	
			Operation range	Min/Max		°C	
Gas	Connection	Diameter		mm		40/65	
			Consumption (G20)	Min/Max		m³/h	
			Consumption (G31)	Min/Max		m³/h	
Supply air	Connection	Concentric		mm		100	
			Flue gas	Connection		mm	
			Casing	Colour		White - RAL9010	
					Material		Precoated sheet metal
Dimensions	Unit	HxWxD	Casing	mm		650x450x240	
Weight	Unit	Empty		kg		33	
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			
Weight	Unit			kg			
Compressor	Quantity			1			
			Type		Hermetically sealed swing compressor		
Operation range	Heating	Min.~Max.		°CWB			
Refrigerant	Type			R-32			
			GWP		675		
			Charge		kg		
			Charge		TCO2Eq		
Sound power level	Heating	Nom.		dBA			
Sound pressure level	Heating	Nom.		dBA			
Power supply	Name/Phase/Frequency/Voltage			Hz/V			
Current	Recommended fuses			A			

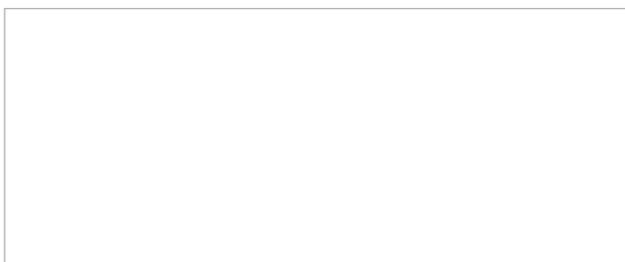
(1) Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)
This product contains fluorinated greenhouse gases.



Trust Daikin

Daikin may not be a household name. After all, we don't make cars, TVs, fridges or washing machines. But we do make world-class heat pumps. In fact, more than 275,000 Daikin Altherma heat pumps have been fitted across Europe since its initial launch in 2006. Because 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, leaving you free to focus on other essentials.

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ECPEN21 - 731

09/21



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Printed on non-chlorinated paper.