



Daikin Altherma

Hybrid Monobloc Heat Pump



Smarter heating for your customers

Energy for change



Table of contents

The Hybrid concept	4
Daikin Altherma Hybrid Monobloc (R32) Heat Pump System	6
Daikin online controller	9
Stand By Me toolkit	10



Why choose a Daikin Altherma hybrid heat pump?

It's simple really. Daikin Altherma hybrid heat pumps offer a high level of all-year-round comfort, thanks to optimal use of a gas condensing boiler and air-to-water heat pump to deliver superior performance.

Our hybrid heat pumps are programmed to automatically select the right mix of technologies to maximise energy efficiency and deliver the perfect comfort levels.

Time to rethink heating

- > Automatic switch between heat pump, gas boiler or hybrid operations - always selecting the most efficient mode
- > Ensures the most economical operation, whatever the future fluctuations in gas and electricity prices
- > Low running costs for heating and hot water compared with traditional boilers
- > Heats an existing home using up to 60% renewable energy, without changing the radiators
- > Ideal for renovation applications
- > Easy and fast installation

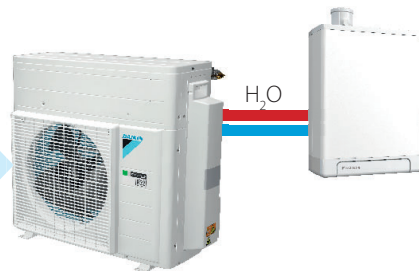
A hybrid heating system is the next step on the pathway to a low carbon future. A Daikin Altherma hybrid system can be installed as a replacement for conventional heating. It has the advantage of hybrid smart technology, managing how your customer's energy is used and balanced. So, you simply install it and let a Daikin Altherma hybrid system take care of the rest.

The Hybrid Monobloc concept, The best of both worlds

The Daikin Altherma Hybrid Monobloc combines a 32kW gas fired combination boiler with a 4kW air source heat pump, giving you and your customers the best of both worlds.

Heat pump

Condensing Boiler



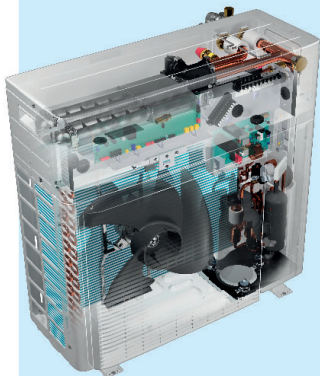
Environmentally friendly

- › Reduced environmental impact thanks to the use of **R-32 refrigerant**, which has **low global warming potential**
- › 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

Water connections only between outdoor and indoor unit, so no F-gas certificate required.

Reliable in all conditions

The unit can work down to -15°C outside thanks to multiple freeze-up protections.



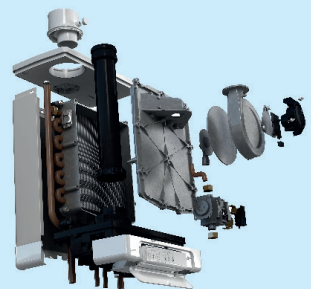
Flexible installation

Compact indoor unit can be installed in a cupboard.



Condensing technology

The condensing technology delivers optimum fuel efficiency, with reduced emissions of NOx and CO₂, to ensure high cost savings and environmentally-friendly operation.



Plug & play

No need for other parts as the pump group is integrated inside.

BLUEVOLUTION

Bluevolution technology combines very high efficient compressors developed by Daikin with the future of refrigerants: R32.

Daikin Altherma Hybrid Monobloc (R32) Heat Pump System

Hybrid technology, combining condensing gas technology and an 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 Monobloc heat pump always selects the most economical mode of operation
- › 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



EJHA-AV3

EHY2KOMB-A



Outdoor Units			EJHA04AV3
Dimensions	Height x Width x Depth	mm	745 x 845 x 329
Weight		kg	45
Nominal capacity	Heating	kW	3.83
Nominal input	Heating	kW	0.85
COP	Heating		4.49
Operation range (ambient)	Heating	°C	-15 ~ 25
Sound pressure / power level	Heating	dB(A)	37 / 58.7
Rated airflow		m ³ /h	1,698
Refrigerant charge	R32	kg	0.56
Piping connections	Water inlet/outlet	inches	1" (male)
Max piping length OU to DHW cylinder		m	10
Power supply			1-phase / 230V / 50Hz
Recommended fuses		A	20

Indoor Unit (boiler)			EHY2KOMB28A	EHY2KOMB32A
Expansion vessel & valves (must be ordered separately)			EKFJM3A	EKFJL3A
User interface (must be ordered separately)			EKRUHML1	EKRUHML1
Function			Heating only	Heating only
Compatible outdoor unit			EJHA04AV3	EJHA04AV3
Dimensions (with backpack)	Height x Width x Depth	mm	830 x 450 x 335	890 x 450 x 335
Weight (with backpack)		kg	43.5	46.7
Seasonal space heating efficiency*	Space heating (Average climate) 55°C	Class	A++	A++
		Efficiency	128	128
		SCOP	3.26	3.28
Seasonal space heating efficiency*	Space heating (Average climate) 35°C	Class	A++	A++
		Efficiency	163	163
		SCOP	4.14	4.15
Domestic hot water heating*	Average climate	Class	A	A
		Declared load profile	XL	XL
Capacity (heating)	Minimum	kW	7.1	7.4
	Maximum	kW	26.3	30.0
Capacity (hot water)	Minimum	kW	7.2	7.6
	Maximum	kW	29.1	32.7
Leaving water temperature range	Heating	°C	30 - 90	
	Hot water	°C	40 - 65	
DHW flow rate ΔT 35K	Hot water	l/min	10.5	13.0
Heating connections	Diameter	mm	22	
DHW connections	Diameter	mm	15	
Gas connection	Diameter	mm	15	
IP rating			IP44	
Device type			C13, C33	
Supply pressure	Natural gas (G20)	mbar	20	
	LPG (G31)	mbar	28-50	
Nox class			6	
Flue gas connection			60/10	
Maximum flue length, 60/100		m	10	
Maximum flue length, 80/125		m	29	
SAP 2012		%	TBC	

*When combined with matching outdoor unit

Nominal capacity and nominal input tested according to EN 14511 at the following conditions:
 Heating: Ambient air temperature 7°C and leaving water temperature 35°C (A7 W35)
 Sound pressure level measured at 1m from the unit

Daikin Altherma Hybrid Monobloc (R32) Heat Pump System

Accessories:

Accessory Ref	Description
EKRUHML1	Hybrid R32 User interface
BRP069A62	Smart Comfort Controller
EKBALLV1	Ball Valves
EKFJM3A	Mounting jig for 28kW Boiler (Including 8 litre expansion vessel and valves)
EKFJL3A	Mounting jig for 32kW Boiler (Including 8 litre expansion vessel and valves)
EKCP1A	Valve Cover Plate
UK.FILLINGLOOP	Straight braided filling loop
EK3WV1A	3-way valve kit for W-plan installation
EKPS075867	LPG conversion kit 28kW Boiler
EKH075787	LPG conversion kit 32kW Boiler
EKH090717	Flue adapter 80/125
EKPCAB4	PC cable – to upload field settings from PC to unit or spare controller
EKRP1HBA	Optional PCB kit for remote alarm monitoring, run and fault indication and solar interlock
EKBPH04JH	Bottom plate heater for Hybrid R32
EKTH4	Thermal store domestic hot water thermistor
EKDVCPLT3HX	Thermal store connection kit (1)
EKTH3	3rd party tank domestic hot water thermistor (2)
EKHY3PART	3rd party tank kit – for 3rd party thermostat (2)
EKADDONJH	External pump for 3rd party boiler applications (3)
EKADDONJH2	Non-return valves and cables for external pump (3)
EKRSC1	Optional remote temperature sensor for outdoor temperature (see note) (4)
K.HOSE750	Pair of flexible hoses (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.HOSE750EL	Pair of flexible hoses with elbow (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.FF600ASN	Pair of flexi feet to mount the outdoor unit
K.CWBXL	Wall mounting bracket for outdoor unit
K.DT1	Condensate drip tray for K.CWBXL
K.CGM	Outdoor unit guard
K.FERNOXTF1	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
RHEATMETH	Heat meter for domestic RHI (for Altherma hybrid only) M-Bus enabled for Daikin remote monitoring cloud using UK.RGATEWAY and UK.RELECMETV MID Class 3 heat meter delivered with body, digital interface and 2 x flow temperature sensors
RELECMETV	Electric meter for domestic RHI (for Altherma hybrid only) M-Bus enabled for Daikin remote monitoring cloud using UK.RGATEWAY and UK.RHEATMETL MID Class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
RGATEWAY	Communication Gateway for domestic RHI (for Altherma hybrid only) M-Bus enabled for Daikin remote monitoring cloud using UK.RHEATMETL and UK.RELECMETV Permanent internet connection required via a third party local router

Notes:

Outdoor unit, boiler, EKRUHML1, EKBALLV1 & EKJ(M/L)3A is required to be ordered to have a complete system

⁽¹⁾ Must be purchased together to enable connection onto Daikin thermal store

⁽²⁾ Must be purchased together to enable connection onto pressurised cylinder

⁽³⁾ Both required when installing outdoor unit alongside 3rd party boiler

⁽⁴⁾ Only one optional remote sensor can be installed



Hybrid Tank Connection Kits

Part Number	Description
EKEPHT3H	Daikin thermal store (EKHWP) This pack contains: 3 way valve (Honeywell) Tank sensor (HT + adapter) 2 x isolation valves T-piece
EKHY3PART	Third party tank – dry pocket sensor This pack contains: 3 way valve (ESBE) Tank sensor (LT)
EKHY3PART2	Third party tank – for 3rd party thermostat This pack contains: 3 way valve (ESBE) Wire harness



Always in control

Daikin Online Controller

The Daikin Online Controller application can control and monitor the status of a heating system and allows you to:

Monitor

- › The heating system status
- › Energy consumption graphs

Schedule

- › Schedule the set temperature* and operation mode with up to **6 actions per day for 7 days**
- › Enable **holiday mode**
- › View in intuitive mode

Control

- › Control space heating and domestic hot water via room thermostat
- › Control leaving water temperature for domestic hot water

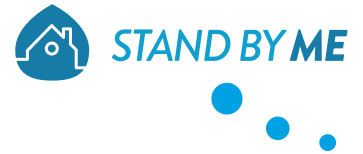
Main features

- › Tank temperature monitoring
- › Equipped with GDPR (data protection)
- › Remote firmware update of LAN Adapter
- › Control over multiple unit locations



Supporting tools

Stand By Me toolkit



Stand By Me provides an integrated environment for you to manage your installations - from the very first contact with your potential clients, to handing over the completed system. Providing all the tools and information you need, this all-in-one platform offers a database of your installations and warranties and lets you enjoy the benefits of internet connected services such as remote metering.

It provides easy online access to everything in one place including:

- › Heating Solutions Navigator selection tools and reports
- › Remote metering tools required for MCS and RHI
- › Online commissioning and handover
- › Database of project leads, commissioned installations and registered warranties
- › End-user warranty registration and extension offers
- › End user service and maintenance package options
- › A living record of your Daikin Installations
- › Easy administration of product warranties
- › Easy contact with your customers

✓ Installation database

Stand By Me provides a live dashboard of your project leads and, once the system is commissioned, your existing installations. So you can review and manage which products were installed, where and when.

✓ Easy commissioning

Hand over couldn't be simpler either. Simply complete the commissioning details, add your customer's email address and they will receive a code so they can create an account on **Stand By Me** and select their warranty and maintenance options.

✓ Annual maintenance records

Stand By Me provides an easy way to review the annual maintenance schedules for each site and track any repairs carried out.

✓ RHI remote monitoring

Stand By Me means that social housing providers no longer need physical access to properties in order to read meters for RHI reports. Remote monitoring of meters on **Stand By Me** provides a daily summary of the energy produced and consumed and the system efficiency, which can be submitted to Ofgem for RHI reporting. The Daikin remote metering cloud has been designed specifically for Daikin Altherma Hybrid systems and connects with your installed meters to provide all the information needed for quarterly RHI reporting.

✓ End user warranty registration

For every warranty you register on **Stand By Me**, you'll gain additional contributions to your Business Development fund, which you can redeem on the Sustainable Home Network portal at sustainablehomenetwork.daikin.co.uk. Or your customer can register their warranty directly (although you won't gain a contribution to your business development fund). As soon as you've commissioned the system, they will receive a code via email so they can register the warranty themselves. Your project database will show you if the end-user has completed the warranty registration and the length of time remaining on their warranty.

It couldn't be easier.
So get connected to Stand By Me today
on standbyme.daikin.co.uk

E-care app

All-in-one app

- › Register your installation on Stand By Me via simple **QR code** scanning
- › Quick configuration of your heat pump in **only 7 steps**
- › Diagnosis of malfunction by QR code scanning and error code input



Heating Solutions Navigator selection

Daikin's Heating Solutions Navigator is designed to help you select the best solution for your customer's home.

The Heating Solutions Navigator is a versatile toolkit on Stand By Me, which brings together all the tools required to complete the design and selection of a system. It's so simple to use, you can create a solution for your customer in just five minutes – on your computer or mobile device.

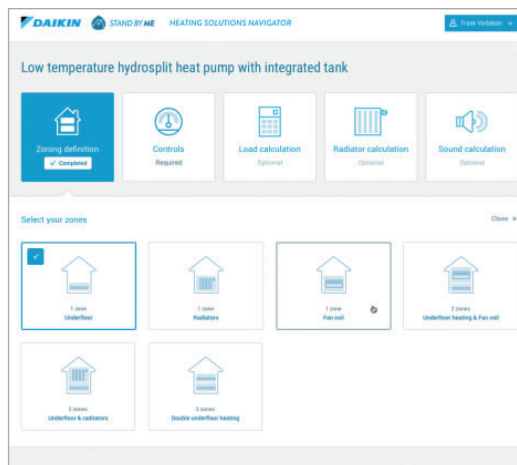
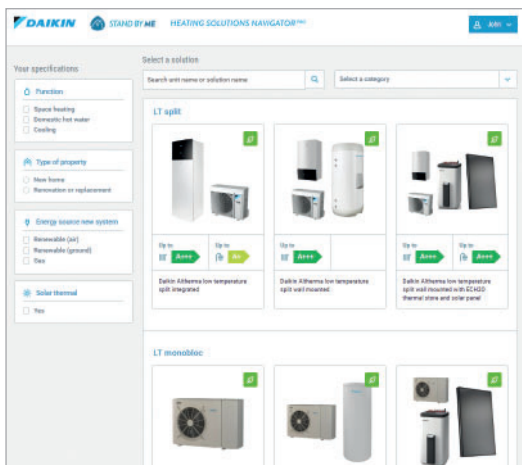
The Heating Solutions Navigator allows you to create quick estimates for initial enquiries or more detailed reports for hot prospects.

The reports offer a highly professional way to showcase Daikin heating solutions to your customers. All product and performance related information is in one place including the solution overview, product descriptions, specifications and schematics, images and literature, equipment list, energy labels, sound pressure information and RHI calculations.

All this can be shared with your customer at the click of a button. So you can follow up leads quickly, your customers can make informed decisions and you can maximise your project opportunities.

The Heating Solutions Navigator helps you to:

- › Quickly see the wide array of Daikin Heating Solutions available
- › Check all the options specifically for your installation
- › Link easily to the installation specific literature
- › Estimate the required heat load – from a simple snapshot to a detailed room-by-room calculation
- › Create custom made piping & wiring diagrams
- › Use the flue gas selection tool for gas based solutions
- › Set the configuration of your installation
- › Compare economic and environmental benefits of the Daikin system versus a conventional heating installation
- › Store all your leads on you Stand By Me account
- › Track projects from lead, installation and commissioning to inviting your customers to select after-sales services





[daikin.co.uk](https://www.daikin.co.uk)

Heating installer line: 01932 879070

Dedicated homeowner support line: 01932 879271

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