



CONNECTED
HEAT PUMP
W-LAN CARTRIDGE
INCLUDED

Daikin Altherma 3 Low Capacity Monobloc (4-6-8 class)



Setting the new Monobloc standard



E(B/D)LA04-08EV3

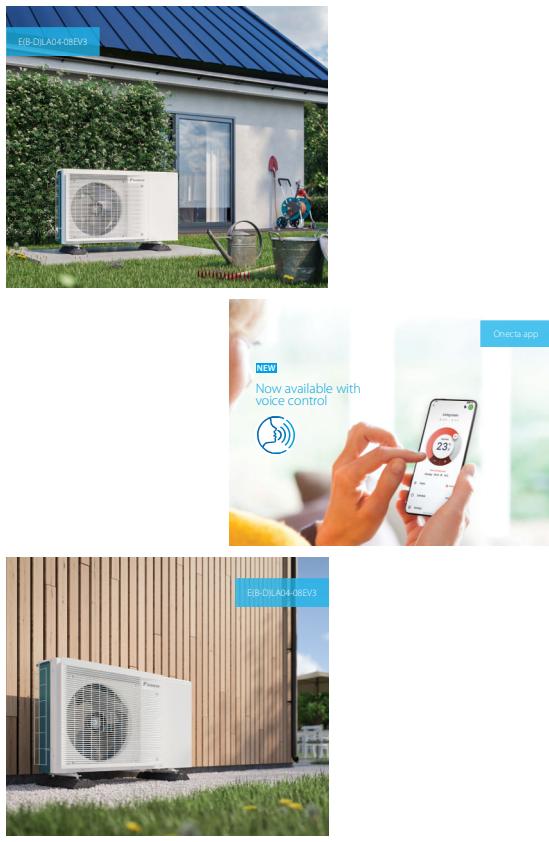


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Daikin Altherma 3 Low Capacity Monobloc

4-6-8 class

Functional design

Now available in 4,6 and class , Daikin Altherma 3 Low Capacity Monobloc is Daikin's first third generation monobloc, benefiting from a new design and using R32 refrigerant, which has a low Global Warming Potential (GWP).

A redesigned casing

The white front grille of horizontal lines hides the fan from view, reducing the perception of the sound produced by the unit.

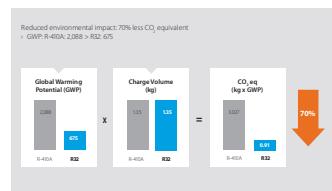
The light grey, seamless casing reflects the environment in which the unit is installed, helping it to blend in with its surroundings.

A renewed fan shape

The shape of the fan has been reviewed to reduce the contact surface with air and improve air circulation.

Easy installation
and commissioning

- › The rotary switchbox is a brand-new feature in this monobloc heat pump.
- › It helps installers access the hydraulic and refrigerant components in an easy way.
- › Commissioning and servicing can be then performed with ease.



R32 monobloc **R-32** **BLUEVOLUTION**

Dalkin is a pioneer in developing heat pumps equipped with R32. With a lower GWP, R32 is equivalent in power to standard refrigerants, but achieves higher energy efficiency and lower CO₂ emissions. Easy to recover and reuse, R32 is the perfect solution for attaining CO₂ emission reduction targets.

A simple solution to space limitation

Thanks to the monobloc set-up, no indoor unit is required which helps when space is limited inside. The monoblocs can even fit under a window.

All the hydraulic components are integrated in one unit, including the sealed refrigerant circuit, so there's no need for refrigerant handling or E-gas qualifications.

Fully connected control

The Daikin Altherma 3 Low Capacity Monobloc is equipped with the most intuitive control solutions.



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Heating and cooling emitters

Daikin Altherma 3 Low Capacity Monobloc works perfectly with various emitters, including fan coils, underfloor heating and heat pump convectors.



Onecta app, with voice control

- › Control the heating system from home or remote via smartphone
- › Control the heating system with voice commands
- › Include integrations with Google Assistant and Amazon Alexa
- › Functions include scheduling, holiday and boost modes, controlling multiple units and monitoring energy consumption

Domestic hot water production

The Monobloc combines with stainless steel tanks (EKHWS-D), Daikin R32 Pre Plumbing Cylinder (UKPPC/R32), thermal stores and panels (BKHPW) to provide domestic hot water quickly.



Quick configuration

After logging in, you'll be able to configure the unit with the new controller in less than 10 steps. You can even check if the unit is ready to use by running test cycles.

Easy operation

The new interface features a few buttons and two navigational knobs to help you quickly set the room temperature and control units.

Man Machine Interface (MMI) or User Interface NEW

Inspired by the award-winning design of the Daikin Altherma 3 indoor units, Daikin also upgraded this controller to deliver an even more user-friendly interface.

User-friendly design

The interface features an intuitive design. The high contrasted colour screen delivers stunning and practical visuals for both installers and service engineers.

WLAN cartridge connection

Small dimensions for a discreet unit:

186 x 160 x 37 mm (HxWxD)

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Consistently compact

Daikin Altherma 3 Low Capacity Monobloc is the most compact heat pump solution, as it consists of only one outdoor unit, so it's ideal for homes with limited space.

Strengthened performances

The Daikin Altherma 3 Low Capacity Monobloc shows improved performances as well as a wide product range

- › Space heating up to **A+**
- › Domestic hot water to **A+**
- › Operating down to -25°C
- › Delivers LWT 55°C at -15°C without back-up heater

Extended product range

- › Heating only models (EDA*)
- › Reversible models providing cooling (EDB*)
- › One-phase models only
- › Back-up heater less models (ED/EDA-EV3)
- › Available in 4, 6 and 8 class
- › Completing the existing range of 9, 11, 14 and 16 class

Flexibility in domestic hot water production

Combines with:
 › Stainless steel domestic hot water tank (EKHWS(U)-D)
 › Thermal store EKHWP-(P)B to provide domestic hot water with support from the sun
 › Daikin R32 Pre-Plumbed Cylinder range UK-PPC/R32

Perfect match with any heat emitters

Combines with:
 › Underfloor heating applications
 › Heat pump convectors such as Daikin
 › Altherma HPCs

Fits under a window



Combination table and options

Type	Description	Material name	R32 small monobloc	
			Without back-up heater	H2O
Controls	Modbus wired room thermostat	BRCTHEK5/W	●	●
	Wireless room thermostat	EXTTBS	●	●
	Wireless grid thermostat	EXTWA	●	●
	Universal centralized controller for central	DCOM-L100-LTMB	●	●
Multi-zoning controls	WLAN cartridge	BRP050A78	●	●
	Digital wired room thermostat	EKWC100V3	●	●
	Analog wired room thermostat	EKWC100N3	●	●
	Actuator	EKWC100V3	●	●
Sensors	Multi-zoning basestation (9 channels)	EKWH100/10/9	●	●
	Modbus wired basestation (20 channels)	EKSCA1	● (1)	● (1)
	EKWUHTA1V3	EXTTSB	● (2)	● (2)
	Temperature sensor for EKHWS-D (2m length)	EXTTSB	●	●
Domestic hot water	Temperature sensor for EKHWP-(P)B (2m length)	EXTSE2	●	●
	DHW tank	EKHW50-D/DS3V3	●	●
	Thermal stores	EKMPF500P/B	●	●
	Concealed	PWMSK2/21/2	● (3)	● (3)
Heat pump connector	Floor standing	PWVTS120/20*2*	● (3)	● (3)
	Wall mounted	PWVTS120/20*	● (3)	● (3)
	Back-up heater kit	EKLBUHC80W	● (4)	●
	By-pass kit	EKMBHP	● (4)	●
Other options	BiZone kit	EKMBPDA	●	●
	EKMBPHA	EKMBPHB	●	●
	Digital I/O PCB	EKRPIBAA	● (5)	● (5)
	Demand PCB	EKRPIHATA	●	●
	Freeze protection valve	AVVALVE1	●	●
	PC USB cable	EXPCCAB4	●	●
	Smart grid relay kit (high voltage)	EKSEL5G	●	●
	Flow switch	EXFLSW2	● (6)	● (6)

(1) Only one sensor can be connected indoor OR outdoor version

(2) Can only be used in combination with the wireless room thermostat (EXTTBS).

(3) Maximum height of 2.5m, depending on capacity class. EKWHPC needs to be installed mandatory on heat pump connector (infrared: L1-H2O).

(4) Check Stahlfelpe recommendations to decide to install it in combination with wireless module, in order to avoid impact on the back-up heating.

(5) Additional wires to allow back-up control in combination with external room thermostat are field supply.

(6) Mandatory if glycol is used.

EB(D)LA04-08EV3

Daikin Altherma 3 M

This high performance air-to-water Monobloc system is available in **heating only (EDLA)** and **reversible heating and cooling (EBLA)** models - both are ideal for homes with limited indoor space

- WLAN cartridge connection standard included
- Possible to combine with domestic hot water tanks
- Heating only air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- Optional plug & play integrated 3 kW electric back-up heater
- Available in one phase



Outdoor Unit	Single Phase		Single Phase	
	EDLA04EV3	EDLA04EV3	EBLA04EV3	EBLA04EV3
Efficiency				
Dimensions ⁽¹⁾	Height x Width x Depth	mm	770 x 1250 x 362	770 x 1250 x 362
Weight	Unit	kg	88	88
Nominal capacity	Heating (1/2)	kW	4.204,40	7.507,80
	Cooling (1/2)	kW	4.204,40	4.864,52
Nominal input	Heating (1/2) (including 1/2)	kW	4.204,40	7.507,80
	COP		5,107,65	4,851,50
	Cooling (1/2)	kW	4.204,40	4,401,50
EER			5,107,65	4,851,50
Seasonal space heating efficiency	Space heating (Average climate) 55°C	Class	A++	A++
	Efficiency	176	176	176
	SCOP	4,47	4,47	4,47
	Space heating (Average climate) 55°C	Class	A++	A++
	Efficiency	127	127	130
Operation range	Heating	°C	25 - 35	25 - 35
	Cooling	°C	25 - 35	25 - 35
	Hot water	°C	25 - 35	25 - 35
Sound power level	Heating	dBA	53	53
Sound pressure level 4	Heating/Cooling	dBA	44	47
Refrigerant charge (factory)	R32	kg	1,20	1,20
Power supply	1-phase / 230V / 50Hz		1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Recommended/fuses	Outdoor unit	A	2	20
	No. of sp. fuses			25
Expansion vessel volume	litres		1*	1*
Water connections (diameter)	inch	1" (male)	1" (male)	1" (male)
Minimum water volume	litres		20	20
Minimum flow rate	Cooling	litres/min	12	12
	Heating (incl. defrost)	litres/min	12	12
Maximum piping distance to tank	Hot water	m	10	10
		m	5	5
SAP ID				

Heating 1: Ambient air temperature 20°C and leaving water temperature 45°C (A-2W405)

(1) Excludes aesthetic grill

(2) Includes aesthetic grill

(3) Sound pressure level measured at 1 m from the unit

Back-up heater kit (optional):

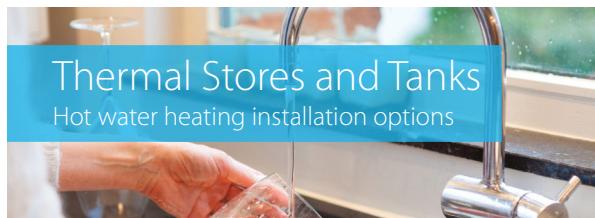
EKL04EV3/01	
Description	Back up heater kit (SKW)
Nominal rating	3
Dimensions	
Depth	mm
Width	mm
Height	mm
Power supply	1 phase 230V / 50Hz
Recommended fuse	3 kW 1ph 230V
Amps	11
Water connections	
Diameter	inch
	1" (male)

Accessories:

Accessory Part	Description
BRC1HHDW	Module Heating - White
BRC1HHSW	Module Heating - Silver
BRC1HHSB	Module Heating - Black
BIP0090478	Daikin ONECTA App - WiFi module (SD Card)
EKL04LSG	Smart grid relay kit (High voltage)
EKL04PC	PC connection kit (for connection from PC to unit)
AVFALV1	Anti-freeze valve for glyd free systems (two required per heat pump)
EKL3W2	Optional flow switch (See note)
EKL04T	Optional remote temperature sensor for outdoor unit (See note)
KRC501-1	Optional remote temperature sensor for indoor unit (See note)
EKPL04	Optional PC kit for remote alarm monitoring, fault indication, solar interface and prevent operation
EKL04T1	Optional remote temperature sensor for outdoor unit (See note)
UKF04001150	Two flexi feet, height 150mm, to mount the outdoor unit
KCB001	Wall brackets for outdoor units (250x 660mm long, 2 arms) - Stainless Steel
UKD05	Condensate drip tray (1400 x 400 x 50mm)
UKD05S	Condensate drip tray (1400 x 400 x 50mm) with wall bracket
K-14025710	Pair of flexible hoses with elbow
K-14025710S	Pair of flexible hoses with elbow
K-FRBN071FR	Perma magnetic filter (200mm)
EKL04H1TH	Thermal stress (SO8) connection kit - For heating only models (for R32 H HT, H SHT, R32 Split and Monobloc)
EKL04H1THS	Thermal stress (SO8) connection kit - For heating only and reversible models (for R32 H HT, H SHT, R32 Split and Monobloc)
EKL04H1THX	Thermal stress (SO8) connection kit - For heating only and reversible models (for R32 H HT, H SHT, R32 Split and Monobloc)
EKLUMBR01	3rd party tank connection kit - Dry pocket sensor
K-ELECMETV	Electric meter for domestic RH - Single phase (Measuring for performance compliant)
K-ELECMETW	Electric meter for domestic RH - Three-phase (Measuring for performance compliant)
EK02-BW	Sequence Controller
DC04-110	Daikin Altherma I/O Sequence Controller/Voltage/Resistance/Smart Grid/Gateway
DC04-110B	Daikin Altherma I/O Sequence Controller/Voltage/Resistance/Smart Grid/Gateway
EKTE1	sensor 2x1m cable EKWH02
EKTE2	sensor 2x1m cable EKWH02
EKWH02	sensor 2x1m cable EKWH02
EKX01PA	Mixing kit - PCB with Hydraulic
EKX01PAH	Mixing kit - PCB with Hydraulic
EKX01HHA	Hydraulics - Mixed Pump Ground
EKX01HVB	Hydraulics - Mixed Pump Ground
EKX01BVA	Hydraulics - Mixed Pump Ground
EKX01DVA	Hydraulics - Distributor for Balancing Vessel
EKX01HBP	Daikin Monoblock valve for BLM option used with EBLA models

Notes:

- 1 User interface (HMI) is supplied with outdoor unit
- 2) EKL04W01 must be ordered if glyd is present within the system
- 3) Only one optional remote sensor can be installed
- 4) For more information please refer to the product manual



Energy-efficient hot water storage

Our high performance cylinders and thermal stores are designed to meet the demand for domestic hot water across a range of applications. With low heat losses and large coil areas, Daikin hot water cylinders are manufactured for modern lifestyles.

With so many different designs and shapes to choose from, our customers can have a peace of mind by knowing that they can select a cylinder which will meet all the specifications for their project.

All our cylinders are WRAS approved, with most of them having EiP ratings of B. When choosing our cylinders, you can rest assured that these products provide high efficiency with minimum heat loss and therefore help to protect the environment.

All our indirectly heated unvented cylinders as well as thermal stores come with a promise to deliver a high quality and reliable performance.

Pre-plumbed R32 cylinder

The perfect partner to a Daikin Altherma Monobloc

› Available in 150, 180, 210, 250 and 300 litres in stainless steel UKPPC/R32 and slimline version in 150 and 180 litres.

Efficiency

- › High-quality insulation keeps heat loss to a minimum
- › With an on board pump and 20l buffer vessel, these pre-plumbed cylinders can also be used as a hydraulic separation between the primary and secondary circuits.
- › Plug & play installation, all key hydraulics included to ensure a fast and easy installation

Reliability

- › Built-in 20 litre buffer vessel, which can also be used as hydraulic separation and pre-fitted pump and magnetic filter to ensure the best performance from the Daikin Altherma Monobloc



Domestic hot water tank

Stainless steel domestic hot water tank

› Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWSU-D

Efficiency

- › High-quality insulation keeps heat loss to a minimum
- › Efficient temperature heating: from 10°C to 50°C in only 60 minutes
- › Available as an integrated solution or separate tank

Reliability

- › At necessary intervals, the unit can heat up water up to 60°C to prevent the risk of bacteria growth



Thermal store range

Thermal store: additional hot water comfort

Combine your heat pump with a thermal store to achieve the ultimate comfort at home.

- › Fresh water principle: receive domestic hot water on demand while eliminating the risk of contamination and sedimentation
- › Optimised heat storage: enhance the low temperature evolution enables high tapping performance
- › Fit for the future: possibility to integrate with renewable solar energy and other heat sources
- › Lightweight and robust build of the unit combined with the cascade principle offers flexible installation options

Built for small and large homes, customers can choose between a pressurised and a pressurised hot water system.

Efficiency

- › Fit for the future: maximise renewable energy sources
- › Intelligent Heat Storage Management: ensures continuous heating during defrost mode, and uses stored heat for space heating
- › High-quality insulation keeps heat loss to a minimum

Reliability

- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no water loss through the safety valve



UK.PPC/R32

Pre-Plumbed R32 Cylinder

Domestic hot water cylinder		UK.PPC150/R32	UK.PPC180/R32	UK.PPC210/R32	UK.PPC250/R32	UK.PPC300/R32
Description	150l pre-plumbed cylinder	180l pre-plumbed cylinder	210l pre-plumbed cylinder	250l pre-plumbed cylinder	300l pre-plumbed cylinder	
Dakin Althema R32 Monobloc						
Suitable for						
Energy efficiency class	B	B	C	C	C	
Standing heat loss (EdP)	W	54	58	63	88	98
Storage volume	litres	148	179	209	248	317
Standing heat loss	kWh/24h	1.29	1.39	1.50	2.10	2.29
Max water temperature	°C	90	90	90	90	90
Pump	Quantity	1	1	1	1	
	Nr of Speeds	PWM	PWM	PWM	PWM	
	Normal ESP	80	80	80	80	
	Power input	W	52	52	52	
Primary immersion heater capacity	kW	3	3	3	3	
Primary immersion heater power supply	1-phase / 230V / 50Hz					
Primary immersion heater recommended fuses	A	16	16	16	16	
Secondary immersion heater capacity	kW	3	3	3	3	
Secondary immersion heater power supply	1-phase / 230V / 50Hz					
Secondary immersion heater recommended fuses	A	16	16	16	16	
Height	mm	1550	1618	1684	1744	2156
Diameter	mm	550	550	550	550	600
Empty weight	kg	48	58	61	73	88
Material tank cylinder		Stainless steel 2304				
Piping connections (diameter)	Water inlet H/E	28	28	28	28	28
	Water outlet H/E	28	28	28	28	28
	Cold water in	22	22	22	22	22
	Hot water out	22	22	22	22	22
Space heating flow	mm	28	28	28	28	28
Space heating return	mm	28	28	28	28	28



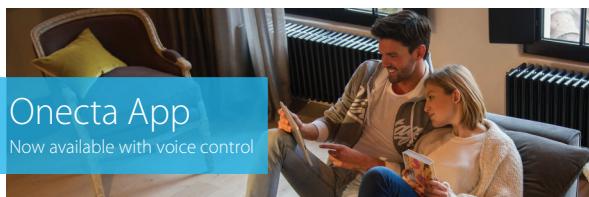
EKHWSU-D

Hot Water Cylinder

Domestic hot water cylinder		SK150L unvented cylinder (Including EKHWSU-D)	SK180L unvented cylinder (Including EKHWSU-D)	SK210L unvented cylinder (Including EKHWSU-D)	SK250L unvented cylinder (Including EKHWSU-D)	SK300L unvented cylinder (Including EKHWSU-D)
832 Split and Monobloc systems						
Suitable for						
Energy efficiency class	B	B	B	B	B	B
Standing heat loss (EdP)	W	45	50	55	60	68
Storage volume	litres	145	174	192	242	292
Standing heat loss	kWh/24h	1.1	1.1	1.4	1.6	1.6
Max water temperature	°C	75	75	75	75	75
Booster heater capacity	kW	3	3	3	3	3
Power supply						
Recommended fuses	A	10	10	12	12	12
Height	mm	1015	1173	1283	1553	1763
Diameter	mm	595	595	595	595	595
Empty weight	kg	55	55	55	55	55
Material inside cylinder		Stainless steel (EN 1.4321)				
Piping connections (diameter)	Water inlet H/E (diameter)	inch 3/4" (female)				
	Water outlet H/E (diameter)	inch 3/4" (female)				
	Cold water in (diameter)	inch 3/4" (female)				
	Hot water out (diameter)	inch 3/4" (female)				



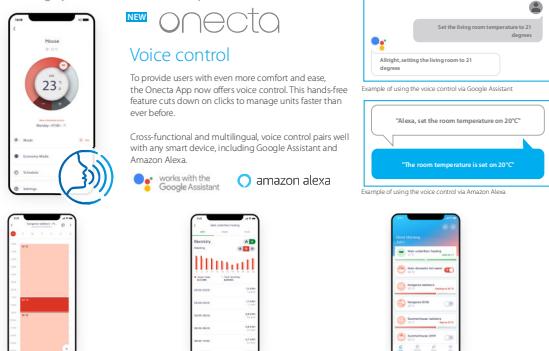
Controls - Onecta App



Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their heating system from their smartphone.



Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- Schedule room temperature and operation mode
- Enable holiday mode to save costs

Scan the QR code to download the app now



Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- Check the status of the heating system
- Access energy consumption graphs (day, week, month)

Control

Customise the system to fit your lifestyle and year-round comfort levels.

- Change room and domestic hot water temperature
- Turn on powerful mode
- Turn on water production

Function availability depends on the system configuration and operation mode.

Functionality is only available if both the Daikin system and the app have a reliable internet connection.

Available on the [App Store](#) [Get it on Google Play](#)

Controls - Wired controllers

Madoka



Madoka combines refinement and simplicity

- > Sleek and elegant design
- > Intuitive touch-button control
- > Three colours to match any interior
- > Compact: measures only 85 x 85 mm

Easy update via Bluetooth

It is strongly recommended to make sure that the user interface is up to date. To update the software or check if updates are available, all you need is a mobile device and the Madoka Assistant app. The app is available on Google Play and in the App Store.



Award-winning design

Madoka received an IF Design Award and Reddot Product Design Award for its innovative design. These awards represent two of the most prestigious and largest design competitions in the world.



reddot award 2018

if DESIGN AWARD 2018

NEW

Man-machine interface

Inspired by the design awarded Daikin Altherma third generation interface of indoor units, this new controller offers many benefits:



The Daikin Eye

The intuitive Daikin eye shows you in real time the status of the system. Blue is perfect! Should the eye turn red, an error has occurred.

Quick to configure

Log in and you'll be able to completely configure the unit via the new interface in less than 10 steps. You can even check if the unit is ready for use by running test cycles!

- Easy operation

Work super-fast with the new interface. It's super easy to use with just a few buttons and two navigational knobs.

- Beautiful design

The interface was especially designed to be very intuitive. The high contrasted colour screen delivers stunning and practical visuals that really help you as installer or service engineer.

- WLAN cartridge connection

- Discreet thanks to small dimensions

H x W x D 136 x 160 x 37 mm



Supporting tool

Stand By Me

A complete customer after-care solution.

✓ [View Details](#)

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.

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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.

 **End user warranty registration**

Warranty registration (previously on KEY) is now all done on **Stand By Me**. Once you've commissioned the system and emailed the code to your customer, your database will show you if the end-user has completed the warranty registration and the length of time remaining on their warranty.

Annual maintenance record

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

BHI 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, 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.

Heating Solutions Navigator

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 and allows you to showcase Daikin heating solutions to your customers.

The Heating Solutions Navigator helps you to:



daikin.co.uk

National Heating Installer Hub: 01932 879070
Heating Services Contact Centre 01932 879271

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