

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



Heating is: Ambient air temperature -2°C and leaving water temperature 45°C (A2/W45)
[1] Excludes aesthetic grill

Nominal capacity and nominal input tested according to EN 14511 at the following conditions:
Heating 1: Ambient air temperature 7°C and leaving water temperature 35°C (A7/W35) Heating 2: Ambient air temperature 7°C and leaving water temperature 45°C (A7/W45)
Cooling 1: Ambient air temperature 35°C and leaving water temperature 18°C (A35/W18) Cooling 2: Ambient air temperature 35°C and leaving water temperature 7°C (A35/W7)
[3] Includes aesthetic grill [4] Sound pressure level measured at 1 m from the unit

Back-up heater kit (optional):

Description	EKBUHCBAV1	
Normal rating	Back-up heater kit (3kW)	
Dimensions	Depth	mm
	210	3
	Width	mm
	250	
	Height	mm
	560	
Power supply	PC cable – to upload field settings from PC to unit	1-phase / 230V / 50Hz
Recommended fuse	3 kW 1ph 230V	Amps
Water connections	Diameter	Inch
	1 1/2	1" (male)

Accessories:

Accessory Ref	Description
BRC1HDDW	Madoka Heating - White
BRC1HDDS	Madoka Heating - Silver
BRC1HDDK	Madoka Heating - Black
BP069A78	Dakin ONECTA App – Wifi module (SD Card)
ERRELSG	Smart grid relay kit (high voltage)
EPCCAB4	PC cable – to upload field settings from PC to unit
AFVALVE1	Anti-freeze valve for glycol free systems (two required per heat pump)
EKFLSW2	Optional flow switch (See note)
ERKSC1	Optional remote temperature sensor for outdoor unit (See note)
KRCS01-1	Optional remote temperature sensor for indoor unit (See note)
ERBP1HBA	Optional PCB kit for remote alarm monitoring, fault indication, solar interlock and bi-valent operation
ERBP1AHT	Optional PCB kit for demand control, power consumption control and power limitation
UK.FF600H150	Two flexi feet, height 150mm, to mount the outdoor unit
K.CWBXL	Wall brackets for outdoor units (250kg, 660mm long, 2 arms)
K.CWBXLSS	Wall brackets for outdoor units (250kg, 660mm long, 2 arms) - Stainless Steel
UK.DT15	Condensate drip tray (1400 x 400 x 50mm)
UK.DTFB3	Floor bracket kit to mount drip tray for 3 flexi feet or wall bracket
K.HOSE750L	Pair of flexible hoses
K.HOSE750EL	Pair of flexible hoses with elbow
K.FERNOXTF1FL	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
EXEPHLLT5X	Thermal store (500L) connecting kit – For heating only models (for R32 H-HT, H-Split, Ref Split and Monobloc)
EXEPHLLT3HX	Thermal store (300L) connecting kit – For reversible models (for R32 H-HT, H-Split, Ref Split and Monobloc)
EKUMBPART	3rd party tank connection kit - Dry pocket sensor
KELECMETV	Electric meter for domestic RH - Single-phase (Measuring for performance compliant)
KELECMETW	MID class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
KELECMETW	Electric meter for domestic RH - Three-phase (Measuring for performance compliant)
KELECMETW	MID class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
EKCC8AW	Sequence Controller
DCOMLT1D	Dalikin Altherma I/O (Sequence Controller Voltage/Resistance Smart Grid) Gateway
DCOMLT1MB	Dalikin Altherma Modular Gateway
EKTESE1	sensor 25m cable EKHW5U
EKTESE2	sensor 25m cable EKHW5P
EKMPROA	Mixing kit - PCB only
EKMPROA	Mixing kit - PCB with Hydraulic
EKMPROHA	Hydraulics - Mixed Pump Ground
EKMPROHA	Hydraulics - Unmixed Pump Ground
EKMPROVA	Balancing Vessel
EKMPROVA	Distributor for Balancing Vessel
EKMBHP	R32 Monobloc valve for BUH option used with EELA models

Notes:

- i) User interfaces (MMI) is supplied with outdoor unit
- ii) ESE (S/N2) must be ordered if glycol is present within the system
- iii) Only one optional remote sensor can be installed
- iv) For compatible off-ices, see pages 1-2-5

Thermal Stores and Tanks

Hot water heating installation options

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 inverted 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 UK-PPC/R32 and slimline version in 150 and 180 litres.

Efficiency

- › High-quality insulation keeps heat loss to a minimum
- › With 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 EK-HWS(U)-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
- › Optimal domestic hot water performance: 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 pressureless 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



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
Suitable for		B	B	C	C	C
Energy efficiency class		W	W	W	W	W
Standing heat loss (EP)		148	179	209	248	301
Storage volume		129	139	150	210	229
Standing heat loss		90	90	90	90	90
Max water temperature		°C	°C	°C	°C	°C
Pump		Quantity	PWM	PWM	PWM	PWM
Nr of Speeds		1	1	1	1	1
Nominal ESP		80	80	80	80	80
Power Input		52	52	52	52	52
Primary immersion heater capacity		3	3	3	3	3
Primary immersion heater power supply		1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Secondary immersion heater recommended fuses		16	16	16	16	16
Primary immersion heater capacity		3	3	3	3	3
Secondary immersion heater power supply		1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Secondary immersion heater recommended fuses		16	16	16	16	16
Height		1150	1676	1864	2164	2165
Diameter		550	550	550	550	600
Empty weight		48	58	61	73	88
Material inside cylinder		Stainless steel 2304				
Piping connections (diameter)		Water inlet H/E	28	28	28	28
		Water outlet H/E	28	28	28	28
		Cold water in	22	22	22	22
		Hot water out	22	22	22	22
		Space heating flow	28	28	28	28
		Space heating return	28	28	28	28



Hot Water Cylinder

Domestic hot water cylinder		SB.EKHWSU150/EKEXP	SB.EKHWSU180/EKEXP	SB.EKHWSU200/EKEXP	SB.EKHWSU250/EKEXP	SB.EKHWSU300/EKEXP
Description		150L unvented cylinder (including EKEXP/VE)	180L unvented cylinder (including EKEXP/VE)	200L unvented cylinder (including EKEXP/VE)	250L unvented cylinder (including EKEXP/VE)	300L unvented cylinder (including EKEXP/VE)
Suitable for		B	B	B	B	B
Energy efficiency class		W	W	W	W	W
Standing heat loss (EP)		145	174	192	242	292
Storage volume		11	12	13	14	16
Standing heat loss		°C	°C	°C	°C	°C
Max water temperature		75	75	75	75	75
Booster heater capacity		3	3	3	3	3
Power supply		1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Recommended fuses		A	20	20	20	20
Height		mm	1175	1283	1553	1763
Diameter		mm	595	595	595	595
Empty weight		kg	45	50	58	63
Material inside cylinder		Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)	Stainless steel (EN 1.4521)
Piping connections (diameter)		Water inlet H/E	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
		Water outlet H/E	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
		Cold water in	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
		Hot water out	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)



Features:

- > This stainless steel unvented cylinder is the ideal partner for Daikin Altherma R32 Split and Low temperature monobloc systems
- > Fitted with a 3kW immersion heater as standard
- > Available in 150, 180, 200, 250 and 300 litres in stainless steel EKHWS(U)-D
- > Quick and easy installation with semi pre-plumbed G3 safety kit included
- > Supplied with 3-way valve

Thermal Store

Thermal Store		EKHWP300PB	EKHWP500PB
Description		Thermal Store 300 litre (Domestic hot water pressurised solar)	Thermal Store 500 litre (Domestic hot water pressurised solar)
Dimensions		Height x Width x Depth	mm
Weight		kg	1660 x 790 x 790
Energy efficiency class		B	B
Standing heat loss (EP)		64	72
Water volume		294	477
Max. water temperature		°C	85
Insulation (U)		1.5	1.7
Heat Exchanger (Heat Source)		Material	Stainless Steel (DIN1.4404)
		Surface Area	m²
		Internal coil volume	19
Heat Exchanger (Domestic hot water)		Material	Stainless Steel (DIN1.4404)
		Surface Area	5.8
		Internal coil volume	29.0
Heat Exchanger (Pressurised Solar)		Material	Stainless Steel (DIN1.4404)
		Surface Area	0.8
		Internal coil volume	1.7
Thermal Performance		Hot water volume without reheating at draw-off rate	12l/m
		Hot water volume without reheating at draw-off rate	321 l/m
		Hot water volume without reheating at draw-off rate	284 l/m
		Hot water volume without reheating at draw-off rate	283 l/m
		Hot water volume without reheating at draw-off rate	352 l/m
Piping connections (diameter)		Heat source in/out	G 1" (female) / 1" (male)
		Potable water in/out	G 1" (female) / 1" (male)
		Pressurised solar in/out	G 3/4" (female) / 1" (male)



Features:

- > This hot water thermal storage tank provides instantaneous hot water and serves as a heat storage medium
- > Tank designed for connection with pressurised thermal solar system
- > Tank designed for connection with drainback thermal solar system
- > Available in 300 and 500 litres
- > Large hot water storage tank to provide domestic hot water at any time
- > Heat loss is reduced to a minimum thanks to the high quality insulation
- > Space heating support possible (500l tank only)

Accessories:

Accessory Ref	Description
16521 S	Fill and drain connection - Recommended to be ordered with every thermal store
165070	Gravity break set - Avoids thermal heat loss from thermal store due to thermo-siphon effect.
164102-RTX	Solar flow setter - Flow regulating valve with flow indicator (2-16 l/min).
165113	for balancing solar flow in cascade installations
165113	Secondary circulation kit - connection for secondary hot water connections
EKH03S	3kW immersion heater for thermal store

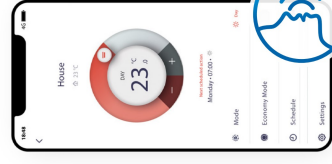
Accessory Ref	Description
EKEPHVHTSH	300l thermal store connection kit (R32 Hybrid)
EKEPHLTHXH	300l Thermal store connection kit - Heating only & Reversible (R32 H HT, H-Split, R-Split and Monobloc)
EKEPHLTHSH	500l Thermal store connection kit - Heating only (R32 H HT, H-Split, R-Split and Monobloc)
EKEPHLTHSX	500l Thermal store connection kit - Reversible (R32 H HT, H-Split, R-Split and Monobloc)
EKEPHTHH	300L Thermal Store connection kit (R410 Hybrid/HT R-Split)
EKEPHTHSH	500L Thermal Store connection kit (R410 HT R-Split)



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.

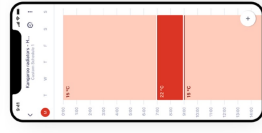


NEW onecta

Voice control

To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



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

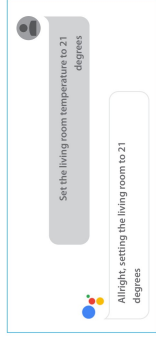
Monitor

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

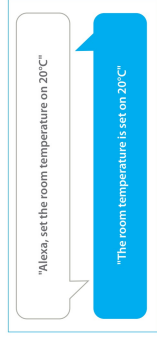
- ✓ Check the status of the heating system
- ✓ Access energy consumption graphs (day, week, month)



Scan the QR code to download the app now



Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa



Control

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

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

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.



User-friendly wired remote controller with premium design

Madoka



Black
RAL 9005 (matt)
BRC1HHDK



White
RAL 9003 (glossy)
BRC1HHDW



Silver
RAL 9006 (metallic)
BRC1HHDs

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

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
winner



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.



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



Stand By Me

A complete customer after-care solution.

With your customer's new Daikin installation and Stand By Me warranty and maintenance options, you can rest assured they are benefiting from the best comfort, energy efficiency, usability and service available on the market. Stand By Me provides an easy way to hand over the system to your customer. Simply complete the commissioning details on standbyme.daikin.co.uk, 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.

✓ 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.

✓ 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 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

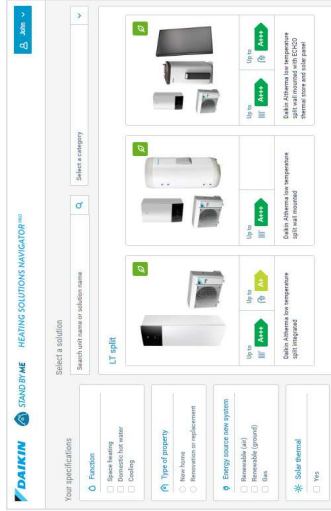
Stand By Me means that social housing providers no longer need physical access to properties in order to read meters for RHI reports. Remote monitoring of meters on **Stand By Me** provides a daily summary of the energy produced, consumed and the system efficiency, which can be submitted to Ofgem for 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:

- > 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 and 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 your Stand By Me account
- > Track projects from lead, installation and commissioning to inviting your customers to select after-sales services
- > To request a quotation for DUCO Residential Ventilation System





daikin.co.uk

National Heating Installer Hub: 01932 879070

Heating Services Contact Centre: 01932 879271

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