

Daikin Altherma 3 High Capacity Monobloc (9-11-14-16 class)



Powerful yet compact



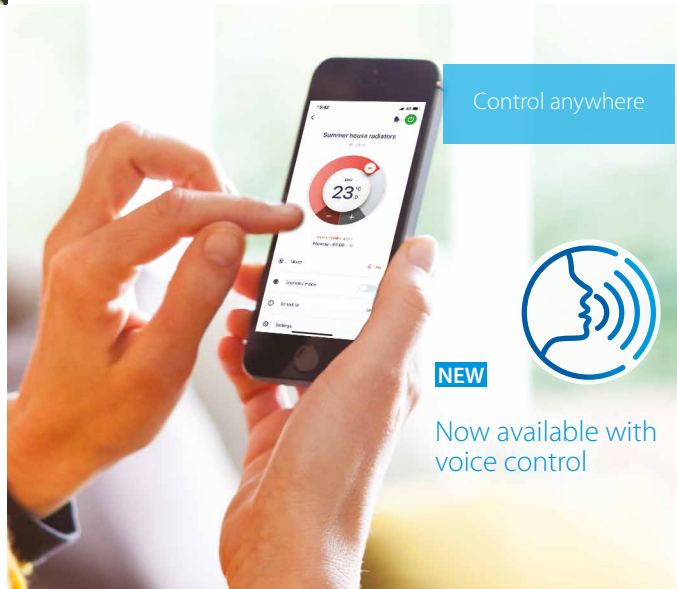


Table of contents

- Daikin Altherma 3 High Capacity Monobloc** **4**
- New design 4
- EDLA / EBLA 6

- Thermal stores and tanks** **8**
- UK.PPC/R32..... 8
- EKHWSU-D & EKHWP-PB 9

- Controls** **12**
- Daikin Onecta app 12
- Madoka for Heating, wired room thermostat 13
- Modern user interface 13

- Stand By Me** **15**



Daikin Altherma 3 High Capacity Monobloc



The Daikin Altherma 3 High Capacity Monobloc is the first all-in-one Monobloc unit to be added to the third generation Daikin Altherma range, featuring the latest controls and low environmental impact R32 technology.

This new addition to the Daikin Altherma 3 range offers higher capacity monobloc units, in 9, 11, 14 and 16 class, all delivered in a market leading compact single fan casing, making it ideal for new buildings and large renovations.

High performance in low ambient conditions

Operation range is down to -25°C , ensuring the system delivers in the harshest of conditions. The unit also has high performance of 60°C leaving water temperature down to -7°C ambient.

The capacities vary depending on the design conditions, ambient temperature and leaving water temperature selected so please check the capacity curves in the data books available on my.daikin.co.uk, or use our Heating Solutions Navigator design tool on Stand By Me to complete your selection.

At typical design conditions of -1.8°C and 45°C leaving water temperature, the 9 and 11 class units hold or even exceed their capacity. However for the 14 and 16 class units, you will need to check the design conditions more carefully depending on the requirements of your customer.

This ability to reliably deliver higher capacities - and even perform beyond the headline capacity in some cases - really makes the Daikin Altherma 3 High Capacity Monobloc a stand-out solution for all kinds of properties

A redesigned outdoor unit

The new Daikin Altherma 3 High Capacity Monobloc offers a modern, single fan design, with compact dimensions and a sleek black grill, providing an unobtrusive and versatile outdoor unit suitable for a wide range of house types.

High performance single fan

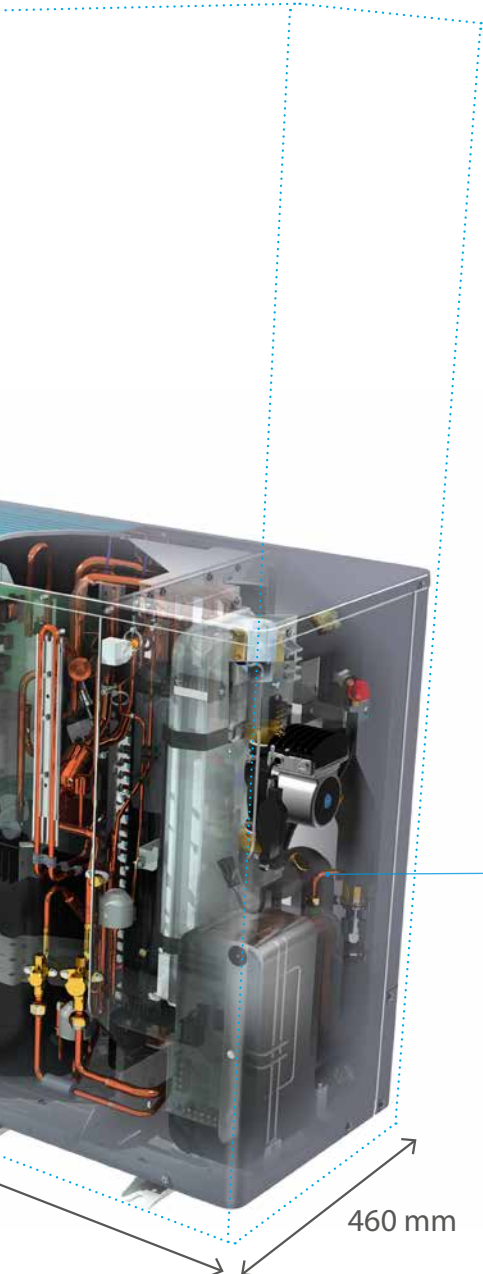
Daikin have optimised the design of the Monobloc unit, meaning that the double fan arrangement has been replaced with a larger single fan. The new 'gull wing' fan design reduces drag to improve system air flow and create a quieter outdoor unit, with a low sound level of just 62 dBA.



All-in-one Monobloc unit

The Daikin Altherma 3 High Capacity Monobloc is an outdoor only unit including an enclosed refrigerant circuit. It is an all-in-one concept with all key hydraulics included such as the pump, flow sensor, and water pressure sensor in the outdoor unit. The system requires no indoor unit, only a wiring centre and a stand-alone domestic hot water tank.

Because there are only water connections to the indoor heating system, you don't need F-Gas qualification to install it. The Daikin Altherma 3 High Capacity Monobloc is designed for a fast and easy installation, making it ideal for heating engineers just starting out into the world of renewables, as well as experienced heat pump installers looking to increase the range of space-efficient solutions they can offer.



Reduced environmental impact

Daikin Altherma 3 High Capacity Monobloc uses R32 refrigerant, which is more energy efficient and has a lower global warming potential (GWP) than refrigerants such as R410A. Requiring 30% less refrigerant charge than an R410A equivalent unit, the Daikin Altherma 3 Monobloc achieves 75% lower CO₂ emissions than previous Monobloc units. This means that you can reduce your customers' environmental impact even further by installing a Daikin Altherma 3 Monobloc heat pump with R32.

R-32 **BLUEEVOLUTION**

Ideal where space is at a premium

The Daikin Altherma 3 High Capacity Monobloc is the ideal solution for homes where indoor space is at a premium, as no additional indoor unit is required. With a reduced size casing of only 870mm height, the outdoor unit can fit right under a window to save outdoor space. With a total volume of less than 0.6m³, the unit meets permitted development rights requirements, leading to a quicker project completion time as there's no delay for planning approvals.



Additional features

- › Available in heating only, reversible heating and cooling, 1-phase and 3-phase models
- › Integrated electric back-up heater for total reliability
- › WLAN card inserts into the user interface and allows connection to the wireless local area network for access to settings via smart phone and cloud API
- › Smart grid ready with the ability to connect to a PV system



Daikin Altherma 3 High Capacity Monobloc

Outdoor Unit			Single Phase				Three Phase			
			EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	EDLA16D3V3	EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	EDLA16D3W1
Description			Class 9	Class 11	Class 14	Class 16	Class 9	Class 11	Class 14	Class 16
Function			Heating Only	Heating Only	Heating Only	Heating Only	Heating Only	Heating Only	Heating Only	Heating Only
Dimensions ⁽¹⁾	Height x Width x Depth	mm	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460
Weight		kg	149	149	149	149	149	149	149	149
Nominal capacity	Heating (a/b)	kW	9.37/9.00	10.6/9.82	12.0/12.5	16.0/16.0	9.37/9.00	10.6/9.82	12.0/12.5	16.0/16.0
	Cooling	kW	-	-	-	-	-	-	-	-
Nominal input	Heating (a/b)	kW	1.91/2.43	2.18/2.68	2.46/3.42	3.53/4.56	1.91/2.43	2.18/2.68	2.46/3.42	3.53/4.56
COP	Heating (a/b)		4.91/3.71	4.83/3.66	4.87/3.64	4.53/3.51	4.91/3.72	4.83/3.66	4.87/3.64	5.43/3.51
Seasonal space heating efficiency	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	186	182	182	182	186	182	182	182
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++	A++	A++
		Efficiency	133	130	132	130	133	130	132	130
	SCOP	3.39	3.32	3.37	3.33	3.39	3.32	3.37	3.33	
EER	Cooling		-	-	-	-	-	-	-	-
Operation range	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35
	Cooling	°C	-	-	-	-	-	-	-	-
	Hot water	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35
Sound power level	Heating	dBA	62	62	62	62	62	62	62	62
Refrigerant charge (factory)	R32	kg	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz
Recommended fuses	Outdoor unit	A	32	32	32	32	13	13	13	13
Pump	No. of speeds		Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller
Expansion vessel volume		litres	8	8	8	8	8	8	8	8
Water connections (diameter)		inch	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)
Minimum water volume		litres	20	20	20	20	20	20	20	20
Minimum flow rate	Cooling/Heating above 5°C	l/min	20	20	20	20	20	20	20	20
	Heating below -5°C	l/min	22	22	22	22	22	22	22	22
	Hot water	l/min	28	28	28	28	28	28	28	28
Maximum piping distance to tank		m	10	10	10	10	10	10	10	10
Maximum level difference		m	5	5	5	5	5	5	5	5

Nominal capacity and nominal input tested according to EN 14511 at the following conditions:

Heating a: Ambient air temperature 7°C and leaving water temperature 35°C (A7 W35)

Heating b: Ambient air temperature 7°C and leaving water temperature 45°C (A7 W45)

Cooling: Ambient air temperature 35°C and leaving water temperature 7°C (A35 W7)

Sound pressure level measured at 1m from the unit

(1) Excludes aesthetic grill



EBLA

Daikin Altherma 3 High Capacity Monobloc

Outdoor Unit			Single Phase				Three Phase			
			EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	EBLA16D3V3	EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	EBLA16D3W1
Description			Class 9	Class 11	Class 14	Class 16	Class 9	Class 11	Class 14	Class 16
Function			Reversible	Reversible	Reversible	Reversible	Reversible	Reversible	Reversible	Reversible
Dimensions ⁽¹⁾	Height x Width x Depth	mm	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460
Weight		kg	149	149	149	149	149	149	149	149
Nominal capacity	Heating (a/b)	kW	9.37/9.00	10.6/9.82	12.0/12.5	16.0/16.0	9.37/9.00	10.6/9.82	12.0/12.5	16.0/16.0
	Cooling	kW	9.35/9.1	11.6/11.5	12.8/12.7	14.0/15.3	9.35/9.04	11.6/11.5	12.8/12.7	14.0/15.3
Nominal input	Heating (a/b)	kW	1.91/2.43	2.18/2.68	2.46/3.42	3.53/4.56	1.91/2.43	2.18/2.68	2.46/3.42	3.53/4.56
COP	Heating (a/b)		4.91/3.71	4.83/3.66	4.87/3.64	4.53/3.51	4.91/3.72	4.83/3.66	4.87/3.64	5.43/3.51
Seasonal space heating efficiency	Space heating (Average climate) 35°C	Class	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
		Efficiency	190	186	185	185	190	186	185	185
	Space heating (Average climate) 55°C	Class	A++	A++	A++	A++	A++	A++	A++	A++
		Efficiency	135	132	134	132	135	132	134	132
		SCOP	3.44	3.37	3.42	3.37	3.44	3.37	3.42	3.37
EER	Cooling		3.35/5.34	3.26/5.31	3.16/5.04	3.06/4.74	3.35/3.34	3.26/5.31	3.16/5.04	3.06/4.74
Operation range	Heating	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35
	Cooling	°C	10 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43	10 ~ 43
	Hot water	°C	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35	-25 ~ 35
Sound power level	Heating	dBA	62	62	62	62	62	62	62	62
Refrigerant charge (factory)	R32	kg	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	1-phase / 230V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz	3-Phase / 400V / 50Hz
Recommended fuses	Outdoor unit	A	32	32	32	32	13	13	13	13
Pump	No. of speeds		Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller
Expansion vessel volume		litres	8	8	8	8	8	8	8	8
Water connections (diameter)		inch	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)
Minimum water volume		litres	20	20	20	20	20	20	20	20
Minimum flow rate	Cooling/Heating above 5°C	l/min	20	20	20	20	20	20	20	20
	Heating below -5°C	l/min	22	22	22	22	22	22	22	22
	Hot water	l/min	28	28	28	28	28	28	28	28
Maximum piping distance to tank		m	10	10	10	10	10	10	10	10
Maximum level difference		m	5	5	5	5	5	5	5	5

Nominal capacity and nominal input tested according to EN 14511 at the following conditions:

Heating a: Ambient air temperature 7°C and leaving water temperature 35°C (A7 W35)

Heating b: Ambient air temperature 7°C and leaving water temperature 45°C (A7 W45)

Cooling: Ambient air temperature 35°C and leaving water temperature 7°C (A35 W7)

Sound pressure level measured at 1m from the unit

(1) Excludes aesthetic grill

Accessories:

Accessory Ref	Description
BRC1HHDW	Madoka Heating - White
BRC1HHD5	Madoka Heating - Silver
BRC1HHDK	Madoka Heating - Black
BRP069A78	Residential Controller App - Wi-fi module [SD Card]
EKRELSG	Smart grid relay kit (high voltage)
EKPCCAB4	PC cable - to upload field settings from PC to unit
AFVALVE1	Anti-freeze valve for glycol free systems (two required per heat pump)
EKFLSW1	Optional flow switch (See note)
EKRSC1	Optional remote temperature sensor for outdoor unit (See note)
KRCS01-1	Optional remote temperature sensor for indoor unit (See note)
EKRP1HBA	Optional PCB kit for remote alarm monitoring, fault indication, solar interlock and bivalent operation
EKRP1AHT	Optional PCB kit for demand control, power consumption control and power limitation
UK.FF600S1503	Three flexi feet, height 150mm, to mount the outdoor unit
UK.CWBXXL3A-B	Wall bracket for outdoor unit (250kg, 780mm long, 3 arms, black)
UK.DT4	Condensate drip tray (1420 x 550 x 50mm)
UK.DTFB3	Floor bracket kit to mount drip tray for 3 flexi feet or wall bracket
K.HOSE750	Pair of flexible hoses
K.HOSE750EL	Pair of flexible hoses with elbow
K.FERNOXTF1	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
EKEPRHLT5H	Thermal store (500l) connection kit - For heating only models (for R32 H HT, H-Split, Ref Split and Monobloc)
EKEPRHLT5X	Thermal store (500l) connecting kit - For reversible models (for R32 H HT, H-Split, Ref Split and Monobloc)
EKEPRHLT3HX	Thermal store (300l) connection kit - For heating only and reversible models (for R32 H HT, H-Split, Ref Split and Monobloc)
EKUMBPART	3rd party tank connection kit - Dry pocket sensor

Features:

- › WLAN cartridge connection (optional)
- › Possible to combine with domestic hot water tanks
- › Reversible or heating only air-to-water heat pump
- › Monobloc all-in-one concept including all hydraulic parts
- › An optional built-in 3kW electric back-up heater or a separate back-up heater kit are available for additional heating
- › Available in one phase and three phase



Notes:

- User interface (MMI) is supplied with outdoor unit
- EKFLSW1 must be ordered if glycol is present within the system
- Only one optional remote sensor can be installed

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 the domestic hot water across a range of applications. With low heat losses and large coil areas, Daikin hot water cylinders are manufactured in consideration of all the requirements which come with our 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 ErP 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 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 EKHWS(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, e.g. fireplace
- › 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



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			Daikin Altherma R32 Monobloc				
Energy efficiency class			B	B	C	C	C
Standing heat loss (ErP)			54	58	63	88	96
Storage volume			148	179	209	248	301
Standing heat loss			1.29	1.39	1.50	2.10	2.29
Max water temperature			90	90	90	90	90
Pump	Quantity		1	1	1	1	1
	Nr of Speeds		PWM	PWM	PWM	PWM	PWM
	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
Primary immersion heater recommended fuses			A 16	A 16	A 16	A 16	A 16
Secondary 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			A 16	A 16	A 16	A 16	A 16
Height			1550	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	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		28	28	28	28	28
	Space heating return		28	28	28	28	28

Domestic hot water cylinder			UK.PPC150SL/R32	UK.PPC180SL/R32
Description			150l slimline pre-plumbed cylinder	180l slimline pre-plumbed cylinder
Suitable for			Daikin Altherma R32 Monobloc	
Energy efficiency class			B	B
Standing heat loss (ErP)			52	58
Storage volume			152	178
Standing heat loss			1.23	1.39
Max water temperature			90	90
Pump	Quantity		1	1
	Nr of Speeds		PWM	PWM
	Nominal ESP		80	80
	Power Input		52	52
Primary immersion heater capacity			3	3
Primary immersion heater power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Primary immersion heater recommended fuses			A 16	A 16
Secondary immersion heater capacity			3	3
Secondary immersion heater power supply			1-phase / 230V / 50Hz	1-phase / 230V / 50Hz
Secondary immersion heater recommended fuses			A 16	A 16
Height			1869	2085
Diameter			475	475
Empty weight			61	69
Material inside cylinder			Stainless steel 2304	Stainless steel 2304
Piping connections (diameter)	Water inlet H/E		28	28
	Water outlet H/E		28	28
	Cold water in		22	22
	Hot water out		22	22
	Space heating flow		28	28
	Space heating return		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 EKEXPVES)	180L unvented cylinder (Including EKEXPVES)	200L unvented cylinder (Including EKEXPVES)	250L unvented cylinder (Including EKEXPVES)	300L unvented cylinder (Including EKEXPVES)
Suitable for		R32 Split and Monobloc systems				
Energy efficiency class		B	B	B	B	B
Standing heat loss (ErP)	W	45	50	55	60	68
Storage volume	litres	145	174	192	242	292
Standing heat loss	kWh/24h	1.1	1.2	1.3	1.4	1.6
Max water temperature	°C	75	75	75	75	75
Booster heater capacity	kW	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	20
Height	mm	1015	1175	1283	1553	1763
Diameter	mm	595	595	595	595	595
Empty weight	kg	45	50	53	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	inch	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
	Water outlet H/E	inch	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
	Cold water in	inch	3/4" (female)	3/4" (female)	3/4" (female)	3/4" (female)
	Hot water out	inch	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

EKHWP-PB

Thermal Store

Thermal Store			EKHWP300PB	EKHWP500PB
Description			Thermal Store 300 litre (compatible with pressurised solar)	Thermal Store 500 litre (compatible with pressurised solar)
Dimensions	Height x Width x Depth	mm	1650 x 595 x 615	1660 x 790 x 790
Weight		kg	58	89
Energy efficiency class			B	B
Standing heat loss (ErP)			64	72
Water volume		litres	294	477
Max. water emperature		°C	85	85
Insulation ^[1]		kWh/24h	1.5	1.7
Heat Exchanger (Heat Source)	Material		Stainless Steel (DIN1.4404)	Stainless Steel (DIN1.4404)
	Surface Area	m ²	2.7	3.8
	Internal coil volume	litres	13.2	19
Heat Exchanger (Domestic hot water)	Material		Stainless Steel (DIN1.4404)	Stainless Steel (DIN1.4404)
	Surface Area	m ²	5.6	5.8
	Internal coil volume	litres	27.1	29.0
Heat Exchanger (Pressurised Solar)	Material		Stainless Steel (DIN1.4404)	Stainless Steel (DIN1.4404)
	Surface Area	m ²	0.8	1.7
	Internal coil volume	litres	4.2	12.5
Thermal Performance	Hot water volume without reheating at draw-off rate 12l/m	litres	153 ^[2]	282 ^[2]
			252 ^[3]	240 ^[3]
			321 ^[4]	444 ^[4]
	Hot water volume without reheating at draw-off rate 8l/m	litres	284 ^[2]	324 ^[2]
			283 ^[3]	288 ^[3]
			352 ^[4]	492 ^[4]
Piping connections (diameter)	Heat source in/out	inch	G 1" (female) / 1" (male)	G 1" (female) / 1" (male)
	Potable water in/out	inch	G 1" (female) / 1" (male)	G 1" (female) / 1" (male)
	Pressurised solar in/out	inch	G 3/4" (female) / 1" (male)	G 3/4" (female) / 1" (male)



EKHWP300B



EKHWP500B

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 liters
- › 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)

[1] Heat loss according to EN12897 and EN 15332

[2] Inlet temperature = 10°C / Tapping temperature = 40°C / Storage temperature = 50°C

[3] Inlet temperature = 10°C / Tapping temperature = 40°C / Storage temperature = 60°C

[4] Inlet temperature = 10°C / Tapping temperature = 40°C / Storage temperature = 65°C

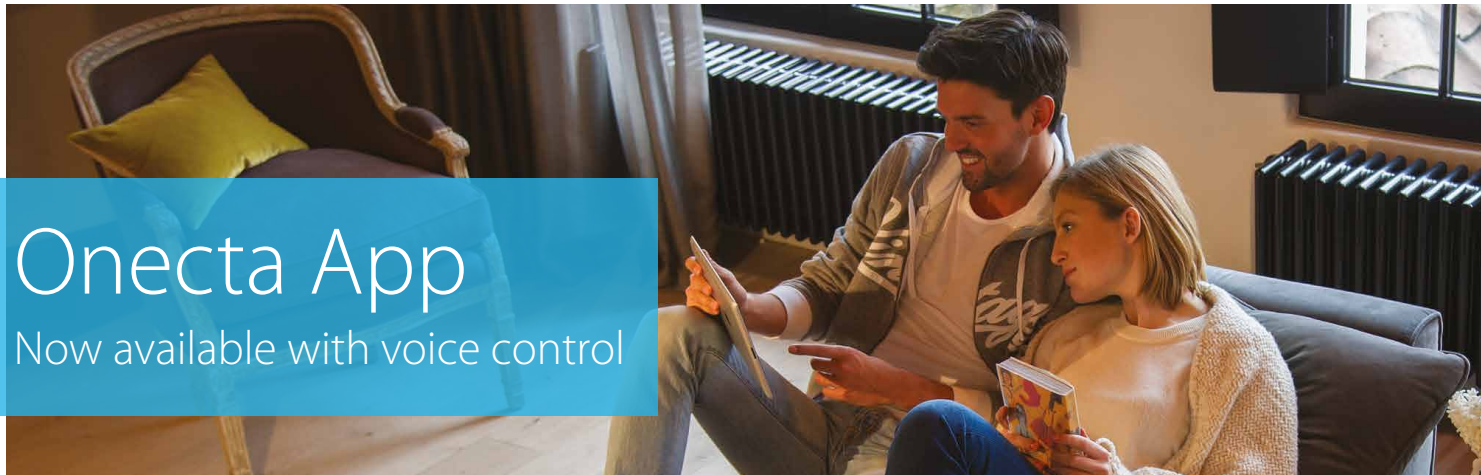
Accessories:

Accessory Ref	Description
165215	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), for balancing solar flow in cascade installations
165113	Secondary circulation kit - connection for secondary hot water connections
EKBH35	3kW immersion heater for thermal store

Accessory Ref	Description
EKEPHYHT35H	300l thermal store connection kit (R32 Hybrid)
EKEPRHLT3HX	300l Thermal store connection kit - Heating only & Reversible (R32 H HT, H-Split, R-Split and Monobloc)
EKEPRHLT5H	500l Thermal store connection kit - Heating only (R32 H HT, H-Split, R-Split and Monobloc)
EKEPRHLT5X	500l Thermal store connection kit - Reversible (R32 H HT, H-Split, R-Split and Monobloc)
EKEPHT3H	300L Thermal Store connection kit (R410 Hybrid/HT R-Split)
EKEPHT5H	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.

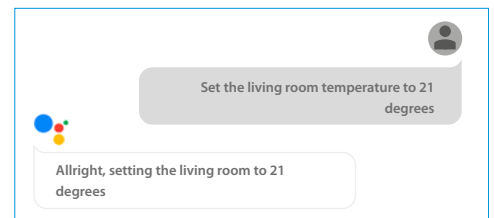


NEW onecta

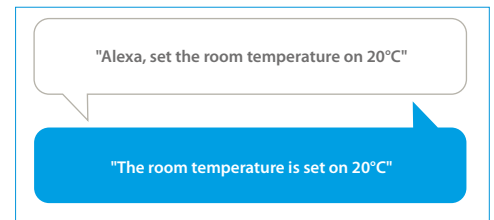
Voice control

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.

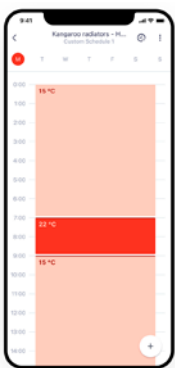
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant



Example of using the voice control via Amazon Alexa



Schedule

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

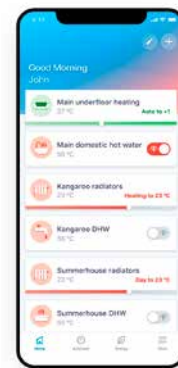
- Schedule room temperature and operation mode
- Enable holiday mode to save costs



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)



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.



Scan the QR code to download the app now



User-friendly wired remote controller with premium design

Madoka



Black
RAL 9005 (matt)
BRC1HHDK



White
RAL9003 (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.

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.



reddot award 2018
winner



NEW

Man-machine interface

Inspired from the design awarded Daikin Altherma third generation interface of indoor units, this new controller gathers all 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 2 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

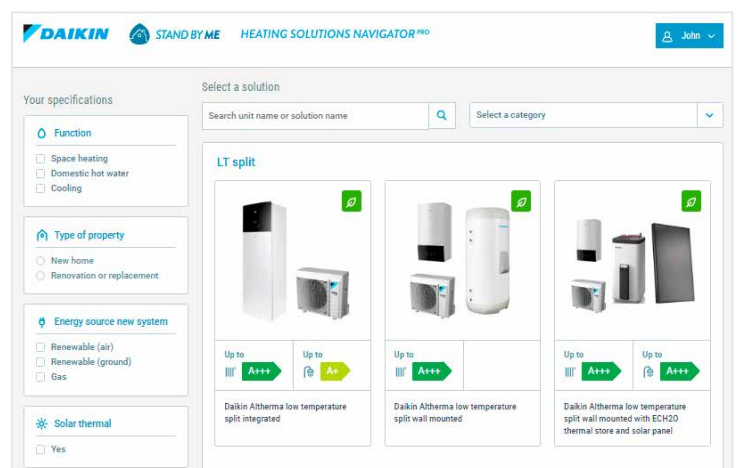
Stand By Me means that social housing providers no longer need physical access to properties in order to read meters for RHI reports. Remote monitoring of meters on **Stand By Me** provides a daily summary of the energy produced, consumed and the system efficiency, which can be submitted to Ofgem for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

National Heating Installer Hub: 01932 879070

Heating Services Contact Centre: 01932 879271

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin UK. Daikin UK has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin UK explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin UK.

