DAIKIN

altherma

Daikin Altherma 3 High Capacity Monobloc

(9-11-14-16 class)

Powerful yet compact

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.

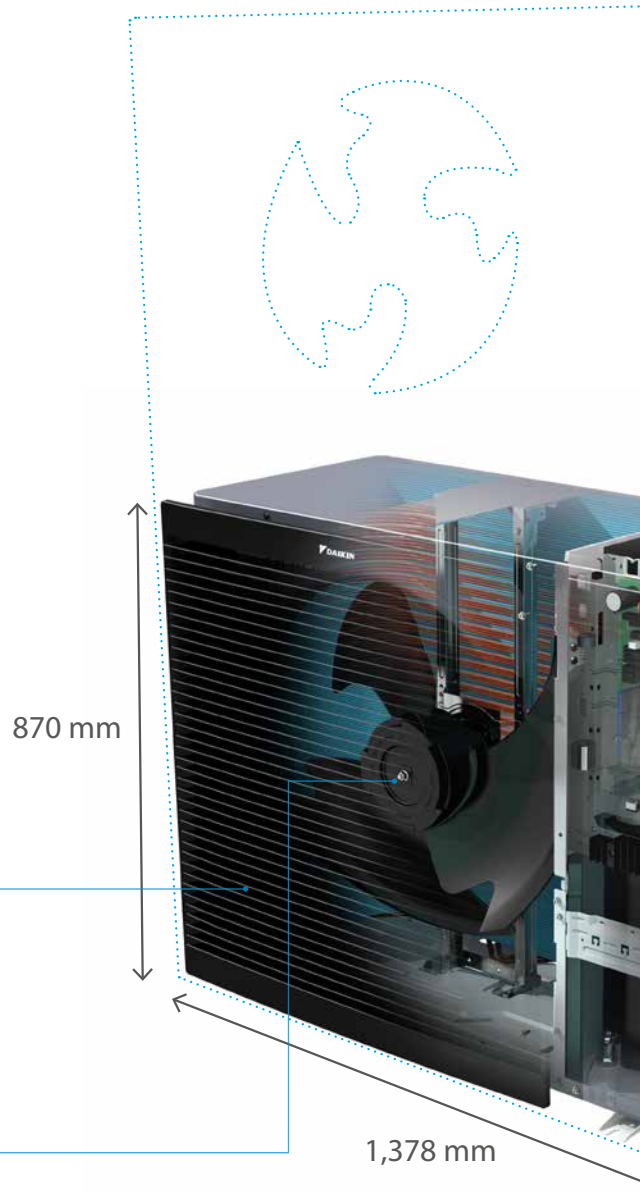
The capacities vary depending on the design conditions, ambient temperature and leaving water temperature selected so please check the capacity curves in the data books available on my.daikin.co.uk, or use our Heating Solutions Navigator design tool on Stand By Me to complete your selection.

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.

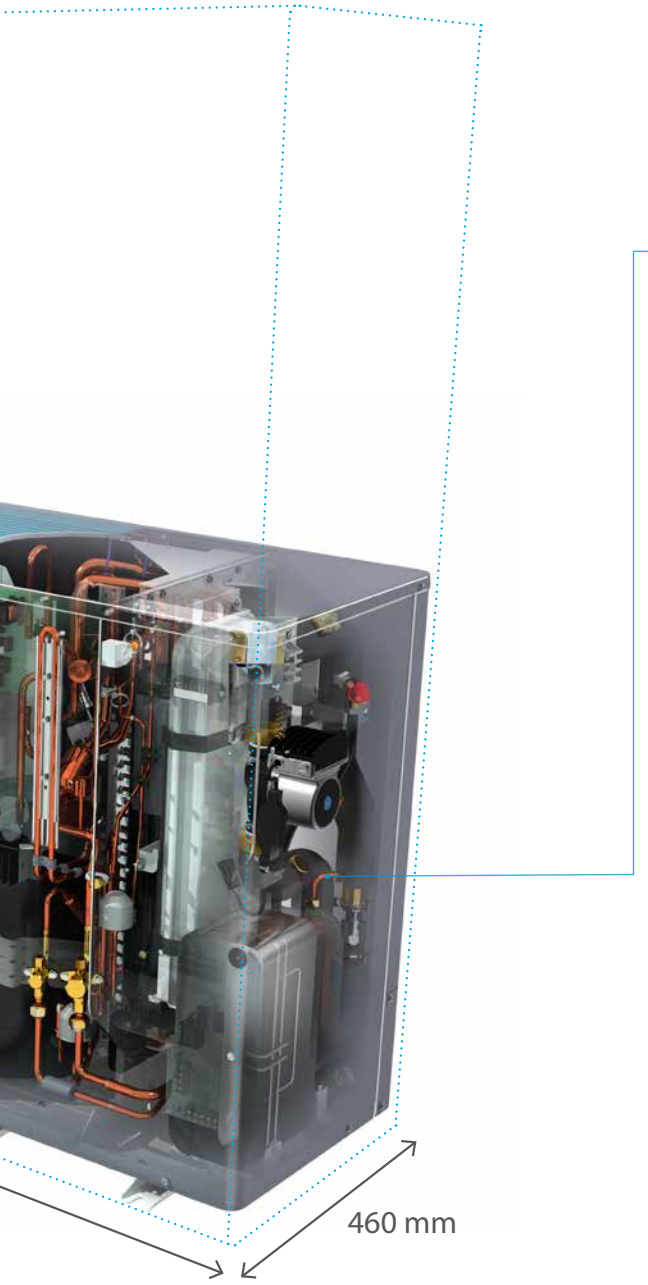
Reduced environmental impact

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 CO_2 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 BLUEVOLUTION

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

R-32 BLUEVOLUTION

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
		SCOP	4.82	4.73	4.70	4.69	4.82	4.73	4.70	4.69
	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
BRC1HHDS	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:

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