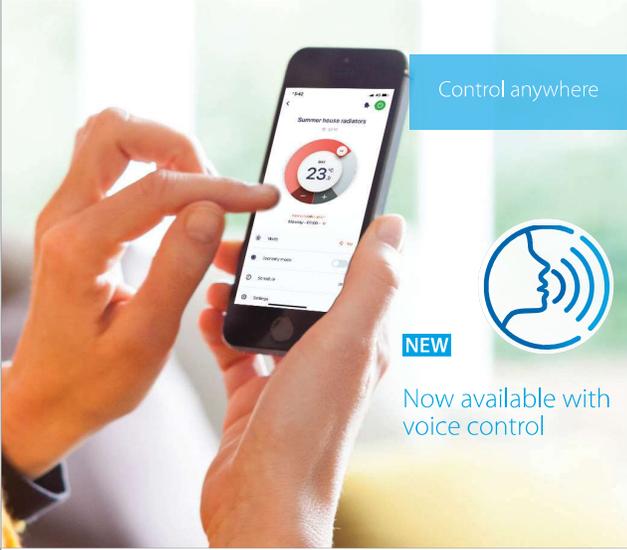


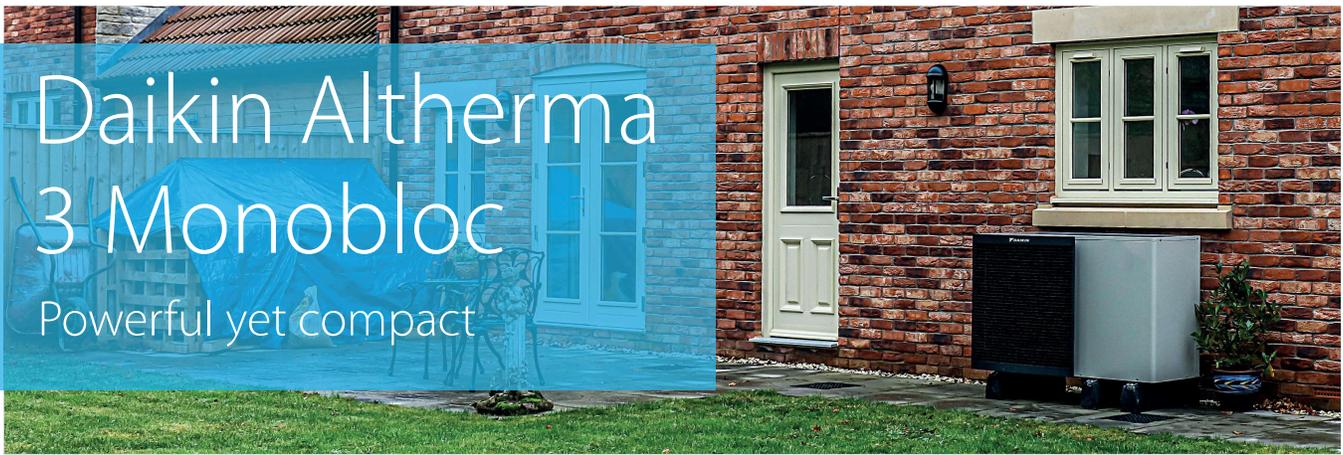
Daikin Altherma 3 Monobloc



Powerful yet compact







The Daikin Altherma 3 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 Monobloc a stand-out solution for all kinds of properties where space saving is also a priority.

A redesigned outdoor unit

The new Daikin Altherma 3 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 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 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.

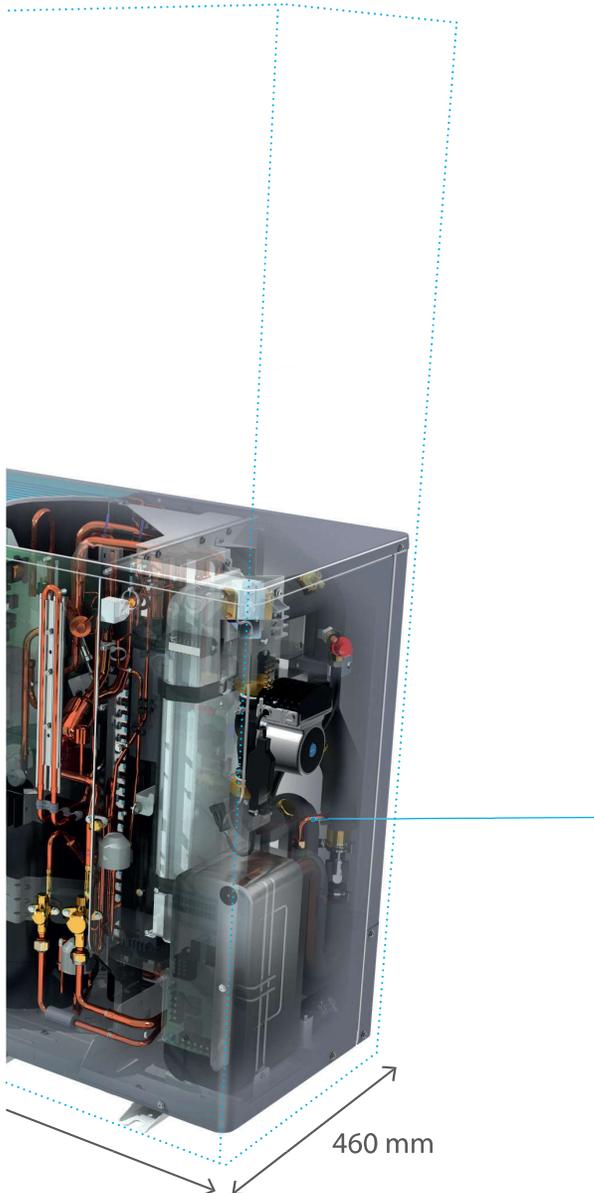
Reduced environmental impact

Daikin Altherma 3 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 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
- › Smart grid ready with the ability to connect to a PV system



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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								
Dimensions ⁽¹⁾	Height x Width x Depth	mm	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		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+++								
		Efficiency	186	182	182	182	186	182	182	182	
	Space heating (Average climate) 55°C	Class	A++								
		Efficiency	133	130	132	130	133	130	132	130	
	SCOP	4.72	4.64	4.62	4.62	4.72	4.64	4.62	4.62		
	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	dB(A)	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	3-Phase / 400V / 50Hz							
Recommended fuses	Outdoor unit	A	32	32	32	32	13	13	13	13	
Pump	No. of speeds		Inverter controller								
Expansion vessel volume		litres	8	8	8	8	8	8	8	8	
Water connections (diameter)		inch	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	
	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

