



Daikin Altherma 3 GEO

For Collective Housing

EGSAH06/10UD9W

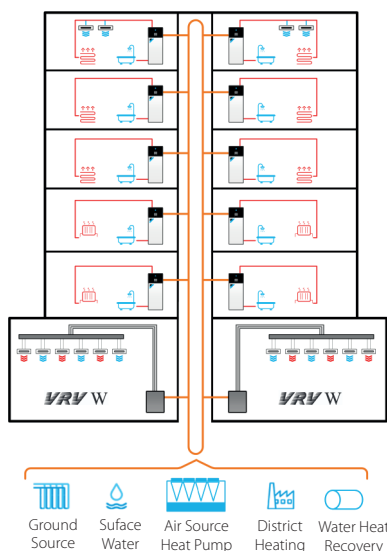


Daikin Altherma 3 GEO for Collective Housing is a highly efficient, communal heat pump system for entire apartment buildings.

The Daikin Altherma 3 Geo for Collective Housing is a highly efficient heat pump system, which can provide economical heating, hot water and optional cooling for an entire apartment building at relatively low ambient water temperatures. The system consists of a network of in-apartment water-to-water heat pumps with integrated DHW cylinders, connected to a common central water loop to form a communal system.

By distributing energy throughout the building using near ambient water temperatures, heat losses are reduced by more than 90% compared with high temperature distribution alternatives. The central water loop can be warmed and/or cooled via several different means:

- Ground or air source heat pump
- Shared ground array, borehole or thermal piles
- Surface water source such as a river, canal or seawater
- District heat network
- Waste heat recovery



Key system advantages:

- Utilises renewable (or recovered) energy
- Low carbon heat pump solution delivers significant CO₂ reductions over traditional combined heat & power/boiler/heat interface unit systems
- Low carbon solution reduces carbon offset payments
- Energy centre not required, saving valuable space
- Heating, hot water & cooling via a 2 pipe network offers capital savings over a traditional 4 pipe solution
- Intuitive user controls and internet connectivity as standard
- In-apartment heat pump has integrated back up heater, so heating & hot water is maintained in any eventuality.

Modern design



EGSAH06/10UD9W

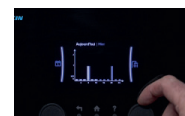
Elegant remote controller



BRC1HHDW/S/K

Intuitive control

High resolution screen for quick status check

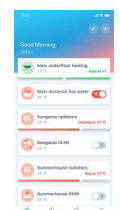


G3 kit

Daikin Altherma 3 Floor standing G3 Kit (Required) EKHUWG3D

Control App

Built-in LAN adapter for connection to 'Daikin residential control' App





Daikin Altherma GEO 3 for Collective Housing

Indoor Unit			EGSAH06UD9W	EGSAH10UD9W	EGSAX06UD9W	EGSAX10UD9W	
Heating capacity	Performance at 0°C inlet temperature	35°C flow	Capacity kW	0.85 - 7.5	0.85 - 9.1	0.85 - 7.5	0.85 - 9.1
			Nominal input kW	0.7	1.12	0.7	1.12
			COP	4.74	4.89	4.74	4.89
	Performance at 20°C inlet temperature	35°C flow Heating	Capacity kW	2.0 - 13.9	2.4 - 13.9	2.0 - 13.9	2.4 - 13.9
			Nominal input kW	0.7	0.94	0.7	0.94
			COP	9.5	8.7	9.5	9.5
		55°C flow Heating	Capacity kW	11.3	11.5	11.3	11.5
			Nominal input kW				
			COP	5	5	5	5
	Performance at 25°C inlet temperature	7°C flow Cooling	Capacity kW	-	-	9.5	10.5
			Nominal input kW				
			COP				
35°C flow Heating		Capacity kW	2.3 - 14.8	2.7 - 17	2.3 - 14.8	2.7 - 17	
		Nominal input kW	0.7	0.94	0.7	0.94	
		COP	11	9.8	11	9.8	
55°C flow Heating	Capacity kW	12.3	12.5	12.3	12.5		
	Nominal input kW						
	COP	5.6	5.6	5.6	5.6		
7°C flow Cooling	Capacity kW	-	-	9.1	9.8		
Function			Heating & hot water		Heating, cooling and hot water		
Casing	Colour		White				
	Material		Precoated sheet metal				
Dimensions	Unit	HeightxWidthxDepth	mm				
			1,891 x 597 x 666				
Weight	Unit		kg				
			222				
Hot water tank		Material	Stainless steel (EN 1.4521)				
		Water volume	180	180	180	180	
		Standing losses @ 60°C	1.2	1.2	1.2	1.2	
		Immersion heater	-	-	-	-	
Hydraulic characteristics		Energy source/Water loop	28	28	28	28	
		Water connections DHW	22	22	22	22	
		Water connections Space heating	22	22	22	22	
Inlet temperature range		°C	+10 ~ +30	+10 ~ +30	+10 ~ +30	+10 ~ +30	
Leaving water temperature range	Heating	°C	+15 ~ +60	+15 ~ +60	+15 ~ +60	+15 ~ +60	
		°C	+5 ~ +20	+5 ~ +20	+5 ~ +20	+5 ~ +20	
	Hot water	°C	+25 ~ +60	+25 ~ +60	+25 ~ +60	+25 ~ +60	
Sound pressure / power level		dBA	27.0 / 39.0	29.0 / 41.0	27.0 / 39.0	29.0 / 41.0	
Refrigerant charge		kg	1.7	1.7	1.7	1.7	
Power supply			1-phase / 230V / 50Hz				
Recommended fuses	Heat pump**	A	32				

Nominal capacity and nominal input tested according to EN 14511

Sound pressure level measured at 1m from the unit

**ErP Seasonal space heating efficiency data, space cooling and domestic hot water heating please see data book

*Can be reduced to 16 Amp if back up heater can be reduced to 3 kw by commissioning setting

Accessories:

Accessory Ref	Description	Trade price
BRC1HHDW	Madoka Heating - White	£84.00
BRC1HHDS	Madoka Heating - Silver	£84.00
BRC1HHDK	Madoka Heating - Black	£84.00
EKUHWG3D	Daikin Altherma 3 Floor standing G3 Kit	£131.00
EKPCAB4	PC cable – to upload field settings from PC to unit	£215.00
KRCS01-1	Optional remote temperature sensor for indoor unit(1)	£54.00
EKRP1HBA	Optional PCB kit for remote alarm monitoring, run and fault indication and bivalent operation	£123.00
EKRP1AHT	Optional PCB for power limitation	£123.00
EKCC*-W	Sequence controller	£758.00
DCOM-LT/MB	Daikin Altherma Modbus Gateway	£225.00
DCOM-LT/IO	Daikin Altherma I/O Gateway	£241.00
K.FERNOXTF1	Fernox magnetic filter 1"	£110.00
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)	£129.00
EKGSHYDMOD	Hydro module replacement	TBC

Notes:

- Every EGSAH-D must be purchased alongside a G3 Kit (EKUHWG3D)
- Only one optional remote sensor can be installed

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