



Daikin Altherma 3 GEO

For Collective Housing

EGSAH06/10UD9W

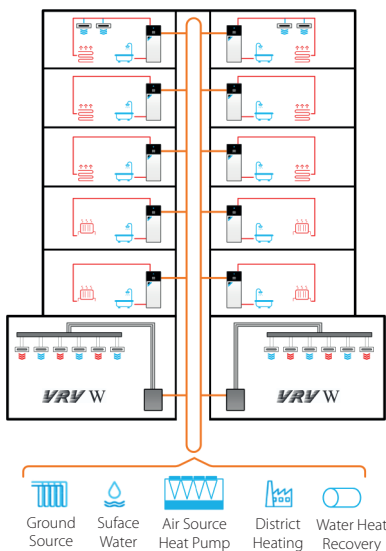


Daikin Altherma 3 GEO for Collective Housing is a highly efficient, communal heat pump system for entire apartment buildings.

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



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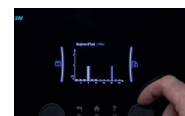
Elegant remote controller



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			
Trade Unit Price				£6,079.00	£6,770.00			
Heating capacity	Performance at 0°C inlet temperature	35°C flow	Capacity	kW	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
			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						
7°C flow Cooling	Capacity	kW	5.6	5.6	5.6	5.6		
	COP		-	-	9.1	9.8		
Function				Heating & hot water		Heating, cooling and hot water		
Casing	Colour				White			
	Material				Precoated sheet metal			
Dimensions	Unit	HeightxWidthxDepth				1,891 x 597 x 666		
Weight	Unit				222			
Hot water tank	Material			Stainless steel (EN 1.4521)				
	Water volume	l		180	180	180	180	
	Standing losses @ 60°C	kWh/24h		1.2	1.2	1.2	1.2	
	Immersion heater	kW		-	-	-	-	
Hydraulic characteristics	Energy source/Water loop		mm	28	28	28	28	
	Water connections DHW		mm	22	22	22	22	
	Water connections Space heating		mm	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	
	Cooling		°C	+5 ~ +20	+5 ~ +20	+5 ~ +20	+5 ~ +20	
	Hot water		°C	+25 ~ +60	+25 ~ +60	+25 ~ +60	+25 ~ +60	
	Heating		dBa	27.0 / 39.0	29.0 / 41.0	27.0 / 39.0	29.0 / 41.0	
Sound pressure / power level	Heating		kg	1.7	1.7	1.7	1.7	
Refrigerant charge	R32							
Power supply	Heat pump**			1-phase / 230V / 50Hz				
Recommended fuses	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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