



## Daikin Altherma 3 WS For Collective Housing

### EGSA(H/X)-D9W(G)

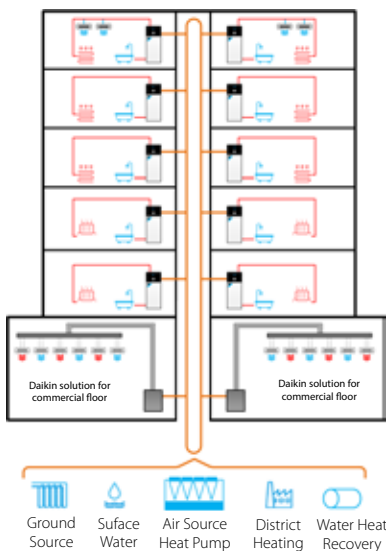


Daikin Altherma 3 WS for Collective Housing is a highly efficient, communal heat pump system for entire apartment buildings.

The Daikin Altherma 3 WS 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 tank, 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 CO<sub>2</sub> 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



EGSA(H/X)06/10D9W

#### Madoka - Elegant remote controller



BRC1HHDW/S/K

#### Intuitive control

High resolution screen for quick status check



#### Control App

Built-in LAN adapter for connection to 'Daikin Residential Controller' App



## Daikin Altherma 3 WS - Water sourced heat pump



Indoor Unit				EGSA	H06D9W	X06D9W(G)	H10D9W	X10D9W(G)
B0 / W35	Heating capacity	Min.	kW			0.85		
		Nom.	kW		3.34			5.48
	Max.	kW		7.98			9.55	
	Power input	Max.	kW		0.7			1.12
	COP			4.74			4.89	
B0	Cooling capacity	Max.	kW	-	9.73	-		11.27
B20 / W35	Heating capacity	Nom.	kW		6			10.5
		Power input	Nom.	kW		0.7		1.3
	COP				9.9			8.5
B20 / W55	Heating capacity	Nom.	kW		6.6			10.2
		Power input	Nom.	kW		1.4		2.1
	COP				4.8			4.9
B25 / W35	Heating capacity	Nom.	kW		6			11.1
		Power input	Nom.	kW		0.5		1.1
	COP				13.4			10.6
B25 / W55	Heating capacity	Nom.	kW		6.7			10.1
		Power input	Nom.	kW		1.3		1.8
	COP				5.7			5.7
Space heating	Average climate Brine in 0°C Water out 55°C	ηs (Seasonal space heating efficiency) Efficiency class sCOP	%	150	153		160	162
				3.96 (1)	4.02 (1)		4.2 (1)	4.26 (1)
				214	219		210	213
	Average climate Brine in 0°C Water out 35°C	ηs (Seasonal space heating efficiency) Efficiency class sCOP	%					
				5.54 (1)	5.54 (1)		5.44 (1)	5.53 (1)
					360,4			340,9
Domestic hot water	General Average climate	Declared load profile ηwh Efficiency class	%					
Casing	Colour							
	Material							
Dimensions	Unit	Height x Width x Depth	mm					
Weight	Unit		kg					
Hot water tank	Material							
	Water volume		l					
	Insulation	Heat loss	kWh/24h					
	Corrosion protection							
Operation range	Installation space	Min.~Max.	°C					
	Water inlet	Min.~Max.	°C					
	Heating	Water side	Min.~Max.	°C				
	Domestic hot water	Water side	Min.~Max.	°C				
Refrigerant	Type							
	GWP							
	Charge		kg					
	Charge		TCO <sub>2</sub> Eq					
Sound power level	Nom.		dBA					
Sound pressure level at 1 meter	Nom.		dBA					
Power supply	Name/Phase/Frequency/Voltage							
Current	Recommended fuses							

(1) According to EN14825 and EN14511:2013

(2) According to real application conditions: water inlet 20°C / leaving water temperature 35°C (fixed)

## Accessories:

Accessory Ref	Description
BRC1HHDW	Madoka Heating - White
BRC1HSDS	Madoka Heating - Silver
BRC1HHDK	Madoka Heating - Black
EKUHWG3D	Daikin Altherma 3 Floor standing G3 Kit
EKPCCAB4	PC cable – to upload field settings from PC to unit
KRCS01-1	Optional remote temperature sensor for indoor unit
EKRP1HBA	Optional PCB kit for remote alarm monitoring, run and fault indication and bivalent operation
EKRP1AHT	Optional PCB for power limitation
EKCC*-W	Sequence controller
DCOM-LT/MB	Daikin Altherma Modbus Gateway
DCOM-LT/O	Daikin Altherma I/O Gateway
K.FERNOXTF1	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
EKGSHYDMOD	Hydro module replacement

Daikin Europe N.V. Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

CEPEN20-753

06/20



The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication 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 Europe N.V. 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 publication. All content is copyrighted by Daikin Europe N.V.

Printed on non-chlorinated paper.