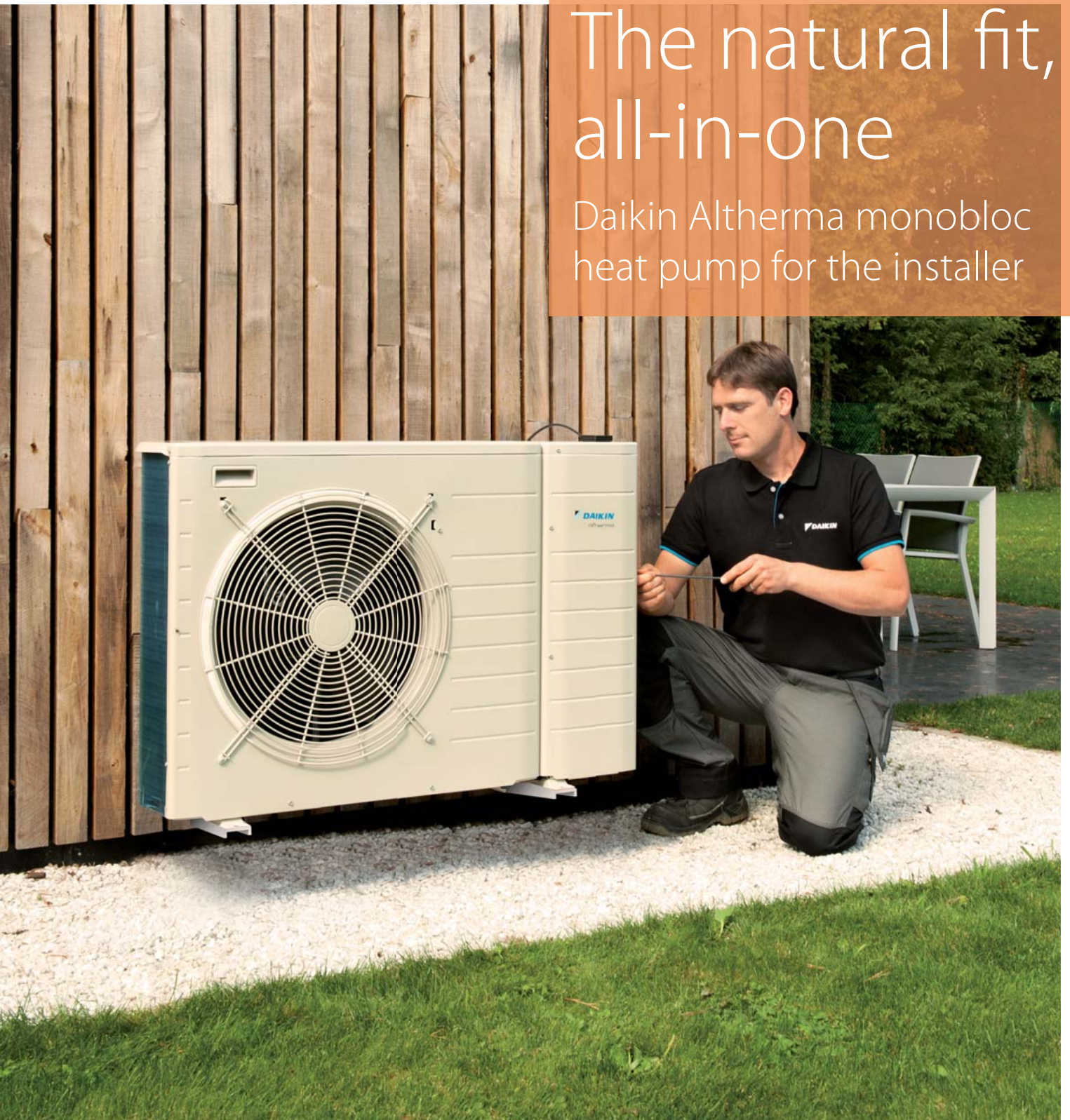


The natural fit, all-in-one

Daikin Altherma monobloc
heat pump for the installer



Air-to-water technology

Daikin Altherma monobloc



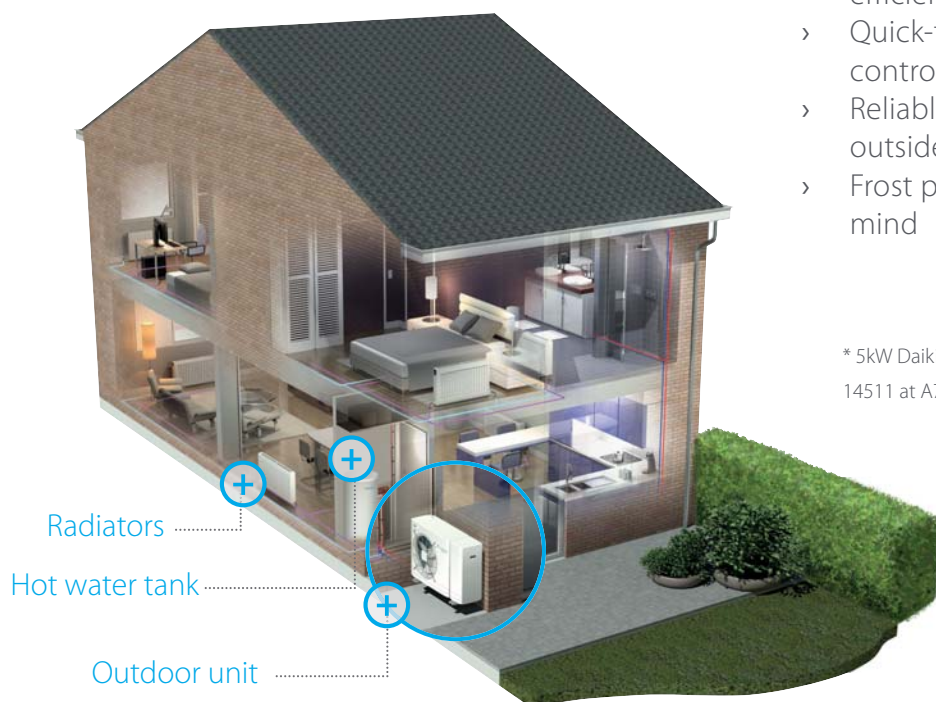
Why choose Daikin Altherma monobloc?

A monobloc is the answer when the requirement is for a simple system relying on a single outside unit and no indoor unit.

- › Everything combined in one outdoor unit
- › Quick and easy installation as only water pipes run indoors from the outdoor unit
- › Limited installation space required as only outdoor space is required
- › Freeze protection of hydraulic parts
- › Quiet, compact outdoor unit
- › Easy installation out of the box, with no refrigerant handling
- › COP up to 5* with typical annual efficiencies of up to 300%
- › Quick-to-commission, user friendly controller
- › Reliable operation even when -25°C outside
- › Frost protection features for total peace of mind



MCS HP0006



* 5kW Daikin Altherma LT Monobloc tested in accordance to EN 14511 at A7 W35

› Heating: **A⁺⁺**
› Hot water: up to* **A⁺⁺⁺**

* When combined with solar thermal products



Outdoor unit only

1. All hydraulic components are combined in the outdoor unit

Available in 5kW to 16kW models, the new Daikin Altherma monobloc requires only a controller indoors, when central heating is needed. When both central heating and domestic hot water are needed, a wiring centre is added. The single fan outdoor unit can be installed almost anywhere, under a window sill, or in the smallest of gardens. So it's a natural fit for new build and renovation projects alike.

2. The space-saving design is ideal for homes where space is limited

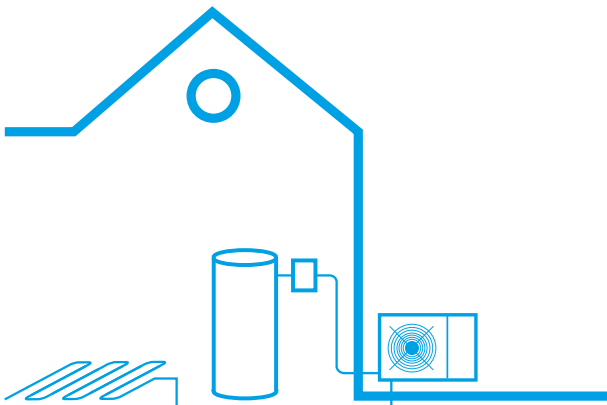
- › The outdoor unit includes all hydraulic components
- › Smallest installed volume in the market:
735 mm (height) x 1090 mm (width)
x 350 mm (depth) – only 80 kg
- › Twin fan model:
1348 (height) x 1160 (width) x 380 (depth)
- › The separate installation of controller and wiring centre allows for a flexible installation in the house
- › Back-up heater is required for twin fan models, unless a minimum water volume of 80 litres is available in the system.

3. Everything you need from one source

The Daikin Altherma monobloc works efficiently with Daikin's range of underfloor heating, fan convectors or third party radiators and can be combined with solar thermal systems. So you can count on Daikin for your entire project.

4. Freeze protection of hydraulic parts

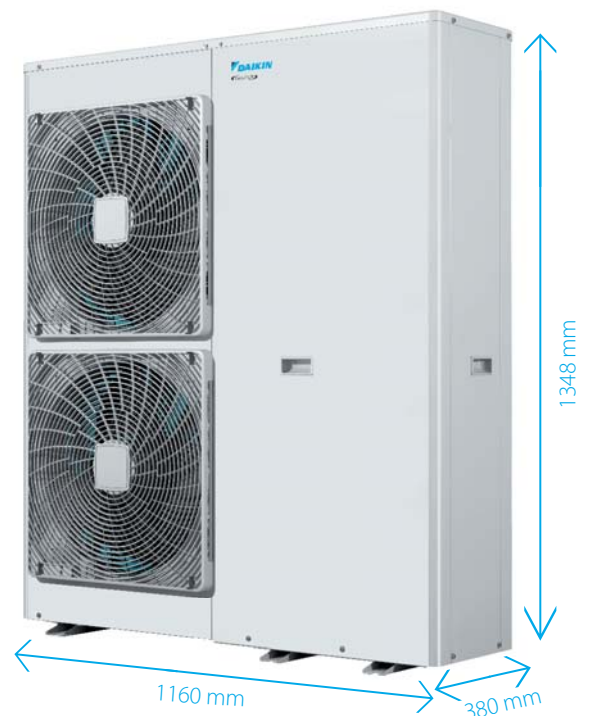
In order to protect the water pipes from freezing up during winter, insulation is provided for all hydraulic components and special software has been applied to activate the pump and back-up heater if necessary. This prevents the water temperature from dropping below freezing point and obviates the need for the addition of glycol to the water pipes.



Wiring centre



5kW and 7kW casing



11kW, 14kW and 16kW casing



Domestic hot water tank and solar support

Whether your customer wants domestic hot water only or the advantage of solar energy, Daikin offers you the domestic hot water tank that meets their requirements.

EKHWSU Domestic hot water tank

- › Available in 150, 180, 200, 250 and 300l
- › Stainless steel (EKHWSU)
- › ErP rating B

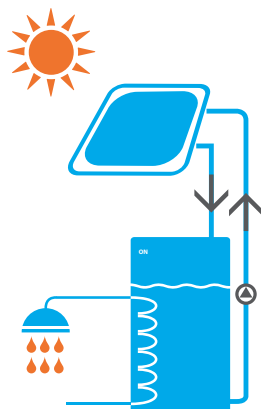
EKHWP Domestic hot water tank solar support

- › Available in 2 capacities: 300 and 500 litres:
 - Can be combined with drain-back or pressurised solar system
 - Optimised connections
- › Easier installation of each system circuit:
 - Improved design: attractive colour and new form
 - Optimised for easy transport and installation
 - Better insulation means reduced energy costs
 - Higher flow-rate thanks to optimised connection technology
 - Clear connections mean easier installation
- › ErP rating B



Pressureless (drain-back) solar system

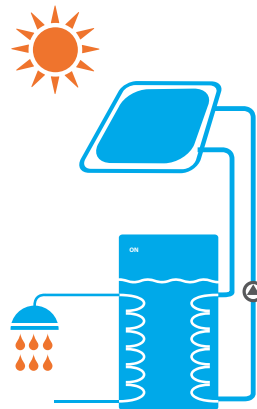
- › The solar collectors are only filled with water
- › Collectors are empty when there is no solar gain or when the temperature in the tank has reached the requested set point
- › When there is sufficient solar gain, the pump switches on and fills the collectors with storage tank water



Drain-back solar system

Pressurised solar system

- › System is filled with heat transfer fluid with the correct amount of antifreeze to avoid freezing in winter
- › System is pressurised and sealed.



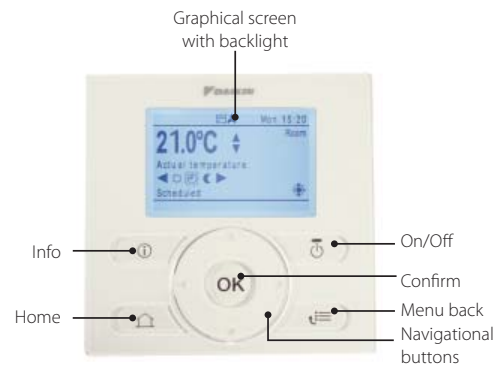
Pressurised solar system



Easy control

System controller for Daikin Altherma

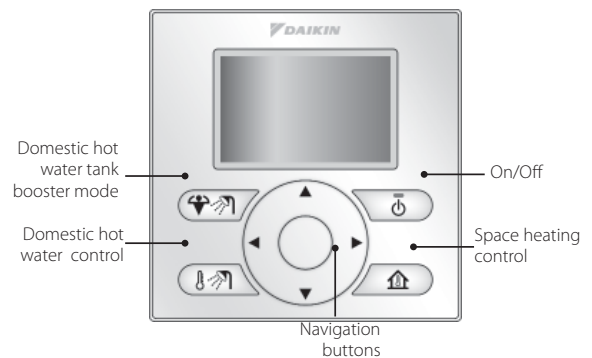
In case something goes wrong, full-text error messages will guide the end-user to take appropriate action to try and resolve the problem. If the problem persists and a site intervention is necessary, the service engineer will be able to review the last 20 error occurrences. Detailed information on the operational conditions of the unit, such as the running hours of the different elements, operating temperatures or number of starts, can easily be read out from the extended end-user's menu.



Optional simplified room thermostat

Ideal for social landlords, the simplified room thermostat allows for only basic operation of the heat pump system, preventing tenants from adjusting field settings and programs. The functionality is limited to only allow the tenant to:

- › View the current room temperature
- › Adjust to the desired room temperature
- › View the stored domestic hot water tank temperature
- › Perform a one-time domestic hot water boost
- › Turn on and off the central heating and domestic hot water



Smart Comfort Controller

Take control of your heat pump even when you are away. The smart comfort controller provides the end user remote connection convenience via their smart device. Using the Daikin heating app, view, monitor and adjust various settings to suit a busy life style or a change of plans. Features include: -

- › Turn the system on or off
- › View and adjust the room and hot water temperature
- › View and amend heating and hot water schedules
- › Switch between heat pump modes of operation
- › System status reporting
- › Control multiple installations via one 'app'





Low Temperature Monobloc Heat Pump (5-7kW)

Outdoor Unit			EDLQ05CV3		EDLQ07CV3	
User Interface (must be ordered)			EKRUCBL2		EKRUCBL2	
Description			5kW, 1-phase, 230V		7kW, 1-phase, 230V	
Dimensions	Height x Width x Depth	mm	735 x 1090 x 350			
Weight		kg	76		80	
Capacity	Heating (a/b)	kW	4.40 / 4.03		7.00 / 6.90	
Input	Heating (a/b)	kW	0.88 / 1.13		1.55 / 2.02	
COP			5.00 / 3.58		4.52 / 3.42	
Seasonal space heating efficiency	Space heating (Average climate) 35°C	Class	A++		A++	
		Efficiency	172		163	
		SCOP	4.39		4.14	
	Space heating (Average climate) 55°C	Class	A++		A++	
		Efficiency	125		125	
Operation Range	Heating	°C	-25 ~ +25			
	Hot Water	°C	-25 ~ +35			
Sound pressure/Power level		dB(A)	48 / 61		49 / 62	
Refrigerant charge	R-410A	kg	1.30		1.45	
Power supply			1-phase / 230V / 50Hz			
Recommended Fuses		Amps	16			
Pump	No. of speeds		Inverter Controlled			
Expansion vessel volume		litres	7			
Water connections	Diameter	Inch	1" (male)			
Max piping length OU to cylinder		mm	10			

Nominal capacity and nominal input tested according to EN 14511 at the following conditions
 Heating a: Ambient air temperature 7C and leaving water temperature 35C (A7 W35)
 Heating b: Ambient air temperature -7C and leaving water temperature 45C (A-7 W45)
 Sound pressure level measured at 1m from the unit

Notes:

- i) User interface (EKRUCBL2) must be ordered with every EDLQ05-07

WIRING CENTRE			EKCB07CV3	
Description			Wiring centre	
To use with			EDLQ05-07CV3	
Dimensions	Depth	mm	97	
	Width	mm	340	
	Height	mm	360	



BACK UP HEATER KIT (OPTIONAL)			EKMBUHC3V3		EKMBUHC9W1	
Description			Back up heater kit (3kW)		Back up heater kit (3/6kW)	
Nominal rating		kW	3		3-6	
Dimensions	Depth	mm	210			
	Width	mm	250			
	Height	mm	560			
Power supply			1-phase / 230V / 50Hz		1-phase / 230V / 50Hz	
Recommended fuses	3 kW 1ph 230V	Amps	16			
	6 kW 1ph 230V	Amps	-			
Water connections	Diameter	inch	1" (male)			

Accessories:

Accessory Ref	Description
EKRUCBL2	User interface
EKRUCBS	Optional simplified room thermostat
EKPCCAB3	PC cable – to upload field settings from PC to unit or spare controller
EKRSC1	Optional remote outdoor temperature sensor (see note)
KRCS01-1	Optional remote indoor temperature sensor (see note)
EK2CB07CV3	Optional Wiring centre - for remote alarm monitoring, run and fault indication and bivalent operation
K.FF600ASN	Pair of flexi feet to mount the outdoor unit
K.CWBXL	Wall mounting brackets for outdoor units (250kg, 660mm long)
K.DT2	Condensate drip tray for use with K.CWBXL
K.HOSE750	Pair of flexible hoses (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.HOSE750EL	Pair of flexible hoses with elbow (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.CG750S	Outdoor unit guard
K.FERNOXTF1	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
BRP069A62	Smart Comfort Controller

Notes:

- i) Only one optional remote sensor can be installed

Features:

- > The small Daikin Altherma Monobloc is ideal for smaller properties
- > In this system, water pipes, rather than refrigerant lines, run from the outdoor unit to indoors which means that no special refrigerant handling is necessary
- > The optional back-up heater is installed indoors



Low Temperature Monobloc Heat Pump (11-16kW)

Outdoor Unit			Single Phase			3 Phase				
			EDLQ011CV3	EDLQ014CV3	EDLQ016CV3	EDLQ011CW1	EDLQ014CW1	EDLQ016CW1		
User Interface (must be ordered)			EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2		
Description			11kW, 1-phase, 230V	14kW, 1-phase, 230V	16kW, 1-phase, 230V	11kW, 3-phase, 400V	14kW, 3-phase, 400V	16kW, 3-phase, 400V		
Function			Heating Only	Heating Only	Heating Only	Heating Only	Heating Only	Heating Only		
Dimensions			1348 x 1160 x 380			1348 x 1160 x 380				
Weight			151			154				
Nominal capacity			Heating (a/b)	11.2 / 11.0	14.5 / 13.6	16.0 / 15.2	11.2 / 11.0	14.5 / 13.6	16.0 / 15.2	
			Cooling	-			-			
Nominal input			2.43 / 3.10	3.37 / 4.10	3.76 / 4.66	2.43 / 3.10	3.37 / 4.10	3.76 / 4.66		
COP			4.61 / 3.55	4.30 / 3.32	4.26 / 3.26	4.61 / 3.55	4.30 / 3.32	4.26 / 3.26		
Seasonal space heating efficiency			Space heating	Class	A++	A++	A+	A++	A++	A+
			(Average climate) 35°C	Efficiency	156	153	149	156	153	149
			Space heating	Class	A+	A+	A+	A+	A+	A+
			(Average climate) 55°C	Efficiency	120	123	119	120	123	119
			SCOP	3.98	3.90	3.80	3.98	3.90	3.80	
			SCOP	3.09	3.16	3.06	3.09	3.16	3.06	
EER			Cooling	-			-			
Operation range			Heating	-10 ~ +35			-10 ~ +35			
			Cooling	-			-			
			Hot water	-25 ~ +35			-25 ~ +35			
Sound pressure / power level			Heating	51 / 64	51 / 64	52 / 66	51 / 64	51 / 64	52 / 66	
			Cooling	-			-			
Refrigerant charge (factory)			R-410A	3.40			3.40			
Power supply			1-phase / 230V / 50Hz			3-phase / 400V / 50Hz				
Recommended fuses			Outdoor unit	A	40	40	40	20	20	20
Pump			No. of speeds	Inverter controller			Inverter controller			
Expansion vessel volume			litres	10			10			
Water connections (diameter)			inches	1" (male)			1" (male)			
Max piping length OU to cylinder			m	10			10			

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

Notes:

- User interface (EKRUCBL2) must be ordered with every EDLQ011-016

WIRING CENTRE			EKCB07CV3		
Description			Wiring centre		
To use with			E(D/B)LQ011~016CV3/CW1		
Dimensions			Depth	mm	97
			Width	mm	340
			Height	mm	360



BACK UP HEATER KIT (OPTIONAL)			EKMBUHC3V3		EKMBUHC9W1	
Description			Back up heater kit (3kW)		Back up heater kit (3/6kW)	
Nominal rating			3		3-6	
Dimensions			Depth	mm	210	
			Width	mm	250	
			Height	mm	560	
Power supply			1-phase / 230V / 50Hz		1-phase / 230V / 50Hz	
Recommended fuses			3 kW 1ph 230V	Amps	16	
			6 kW 1ph 230V	Amps	-	32
Water connections			Diameter	inch	1" (male)	

Accessories:

Accessory Ref	Description
EKRUCBL2	User interface
EKRUCBS	Optional simplified room thermostat
EKPCCAB3	PC cable - to upload field settings from PC to unit or spare controller
EKRSC1	Optional remote outdoor temperature sensor (see note)
KRCS01-1	Optional remote indoor temperature sensor (see note)
EK2CB07CV3	Optional Wiring centre - for remote alarm monitoring, run and fault indication and bivalent operation
K.FF600ASN	Pair of flexi feet to mount outdoor unit
K.HOSE750	Pair of flexible hoses (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.HOSE750EL	Pair of flexible hoses with elbow (Length 750mm, 19mm tough PVC coat insulation, 1" FBSP, 28mm compression)
K.FERNOXTF1	Fernox magnetic filter 1"
K.FERNOXTF1FL	Fernox magnetic filter 1" and F1 inhibitor fluid (500ml)
BRP069A62	Smart Comfort Controller
K.ELECMETV	Electric meter for domestic RHI - Single-phase (Metering for performance compliant) MID Class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump
K.ELECMETW	Electric meter for domestic RHI - Three-phase (Metering for performance compliant) MID Class A electric meter to measure the electricity consumption of the Daikin Altherma heat pump

Notes:

- Only one optional remote sensor can be installed
- Large monobloc requires to be mounted on three flexi feet



Low Temperature Monobloc Heat Pump (11-16kW)

Outdoor Unit			Single Phase			3 Phase		
			EBLQ011CV3	EBLQ014CV3	EBLQ016CV3	EBLQ011CW1	EBLQ014CW1	EBLQ016CW1
User Interface (must be ordered)			EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2	EKRUCBL2
Description			11kW, 1-phase, 230V	14kW, 1-phase, 230V	16kW, 1-phase, 230V	11kW, 3-phase, 400V	14kW, 3-phase, 400V	16kW, 3-phase, 400V
Function			Reversible	Reversible	Reversible	Reversible	Reversible	Reversible
Dimensions			Height x Width x Depth mm 1348 x 1160 x 380			1348 x 1160 x 380		
Weight			kg 151			154		
Nominal capacity			Heating (a/b) kW 11.2 / 11.0	14.5 / 13.6	16.0 / 15.2	11.2 / 11.0	14.5 / 13.6	16.0 / 15.2
			Cooling kW 12.4	12.8	13.9	12.4	12.8	13.9
Nominal input			Heating (a/b) kW 2.43 / 3.10	3.37 / 4.10	3.76 / 4.66	2.43 / 3.10	3.37 / 4.10	3.76 / 4.66
COP			Heating (a/b) 4.61 / 3.55	4.30 / 3.32	4.26 / 3.26	4.61 / 3.55	4.30 / 3.32	4.26 / 3.26
Seasonal space heating efficiency			Space heating (Average climate) 35°C	Class A++ Efficiency 156 SCOP 3.98	Class A++ Efficiency 153 SCOP 3.90	Class A+ Efficiency 149 SCOP 3.80	Class A++ Efficiency 156 SCOP 3.98	Class A++ Efficiency 153 SCOP 3.90
			Space heating (Average climate) 55°C	Class A+ Efficiency 120 SCOP 3.09	Class A+ Efficiency 123 SCOP 3.16	Class A+ Efficiency 119 SCOP 3.06	Class A+ Efficiency 120 SCOP 3.09	Class A+ Efficiency 123 SCOP 3.16
EER			Cooling 2.63	4.05	3.90	2.63	4.05	3.90
Operation range			Heating °C -10 ~ +35	-10 ~ +35	-10 ~ +35	-10 ~ +35	-10 ~ +35	-10 ~ +35
			Cooling °C 10 ~ 46	10 ~ 46	10 ~ 46	10 ~ 46	10 ~ 46	10 ~ 46
			Hot water °C -25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
Sound pressure / power level			Heating dBA 51 / 64	51 / 64	52 / 66	51 / 64	51 / 64	52 / 66
			Cooling dBA 50 / 64	52 / 66	54 / 69	50 / 64	52 / 66	54 / 69
Refrigerant charge (factory)			R-410A kg 3.40	3.40	3.40	3.40	3.40	3.40
Power supply			1-phase / 230V / 50Hz			3-phase / 400V / 50Hz		
Recommended fuses			Outdoor unit A 40	40	40	20	20	20
Pump			No. of speeds Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller	Inverter controller
Expansion vessel volume			litres 10	10	10	10	10	10
Water connections (diameter)			inches 1" (male)	1" (male)	1" (male)	1" (male)	1" (male)	1" (male)
Max piping length OU to cylinder			m 10	10	10	10	10	10

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

Trust Daikin

Daikin makes world-class heat pumps. In fact, more than 400,000 Daikin Altherma heat pumps have been fitted across Europe since its initial launch in 2006.

We focus on doing only what we're best at: creating the most efficient heating, ventilation and air conditioning solutions, renowned for design excellence, quality and reliability.

So you can depend on Daikin for the ultimate in comfort, for your customers, leaving you free to focus growing your business with a leading innovator in heating and renewable technologies.

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daikin.co.uk

Heating installer line: 0845 641 9070

Dedicated homeowner support line: 0845 641 9271

