

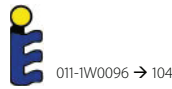
Daikin Altherma R ECH₂O

Floor standing air to water heat pump for **bivalent heating, cooling and hot water with thermal solar support**

> Bivalent system: combinable with a secondary heat source



Options



	Type	Material name
Controls	Room thermostat RoCon U1	EHS157034
	Gateway RoCon G1 for apps	EHS157056
	Connection kit for MK1	VMK1
Back-up heater	Back-up heater 1kW	EKBU1C
	Back-up heater 3kW	EKBU3C
	Back-up heater 9kW	EKBU9C
	Heat insulation for hydraulic separator (HWC)	WHWC
Installation	Separator for dirt	SAS1
	Separator - hydraulic	HWC
	External sensor	EKRTETS
Sensor	Outdoor sensor for Rocon Controller	RoCon OT1
	Others	Mixer module RoCon M1



Efficiency data		EHSXB + ERLQ-C		16P50B + 011CV3	16P50B + 014CV3	16P50B + 016CV3	16P50B + 011CW1	16P50B + 014CW1	16P50B + 016CW1
Heating capacity	Nom.	kW		5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	14.81(1) / 13.73(2) / 8.28(3) / 9.57(4)	15.34(1) / 14.86(2) / 8.04(3) / 10.05(4)	5.95(1) / 7.74(2) / 11.80(3) / 10.40(4)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(4)	8.04 / 10.05 / 15.34 / 14.86
Cooling capacity	Nom.	kW		15.1(1) / 11.7(2)	16.1(1) / 12.6(2)	16.8(1) / 13.1(2)	15.1(1) / 11.7(2)	16.1(1) / 12.6(2)	16.8 / 13.1
Power input	Heating	Nom.	kW	2.57 / 3.13 / 2.43 / 2.35	3.42(1) / 4.07(2)	3.17(3) / 2.93(4)	2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)	3.42 / 4.07 / 3.17 / 2.93
	Cooling	Nom.	kW	4.55(1) / 4.30(2)	5.44(1) / 5.10(2)	6.18(1) / 5.72(2)	4.55(1) / 4.30(2)	5.44(1) / 5.10(2)	6.18 / 5.72
COP	Heating	Nom.		4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10(1) / 3.22(2) / 2.44(3) / 3.15(4)	4.38(1) / 3.32(2) / 2.45(3) / 3.29(4)	4.27(1) / 3.34(2) / 2.58(3) / 3.22(4)	4.10 / 3.22 / 2.44 / 3.15
	Cooling	Nom.		3.32(1) / 2.72(2)	2.96(1) / 2.47(2)	2.72(1) / 2.29(2)	3.32(1) / 2.72(2)	2.96(1) / 2.47(2)	2.72 / 2.29
EER	Space heating	Average climate water outlet 55°C	General	η _s (Seasonal space heating efficiency)	Seasonal space heating eff. class				
				128	130	127	128	130	127
				A++					
Domestic hot water heating	General	Declared load profile	A						
	Average climate	η _{wh} (water heating efficiency)	84						
		Water heating energy efficiency class	A						

Indoor Unit		EHSXB		16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material	Impact resistant polypropylene							
Dimensions	Unit	HeightxWidthxDepth	1,890x790x790						
	Unit	kg	118						
Tank	Water volume	l	477						
	Maximum water temperature	°C	85						
Operation range	Heating	Ambient	Min.~Max.	°C					
		Water side	Min.~Max.	°C					
	Cooling	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
	Domestic hot water	Ambient	Min.~Max.	°CDB					
		Water side	Min.~Max.	°C					
Sound power level	Nom.	dB(A)	40						
Sound pressure level	Nom.	dB(A)	28						

Outdoor Unit		ERLQ-C		011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm						
Weight	Unit	kg	113						
Compressor	Quantity	1							
	Type	Hermetically sealed scroll compressor							
Operation range	Cooling	Min.~Max.	°CDB						
	Domestic hot water	Min.~Max.	°CDB						
Refrigerant	Type	R-410A							
	GWP	2,087.5							
	Charge	kg	3.4						
	Charge	TCO ₂ Eq	7.1						
	Control	Expansion valve (electronic type)							
Sound power level	Heating	Nom.	dB(A)	64	66	69	64	66	66
	Cooling	Nom.	dB(A)	64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dB(A)	51	52	52	51	51	52
	Cooling	Nom.	dB(A)	50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage	Hz/V	V3/1~/50/230						
Current	Recommended fuses	A	40						

(1) Cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB (5) Contains fluorinated greenhouse gases