



Παγκόσμιος Ηγέτης στο **Ιδανικό** Κλίμα.

Αντλίες θερμότητας



Κεντρικά Γραφεία | Ελ. Βενιζέλου 5
Έκθεση | Αριστείδου 40 & Ελ.Βενιζέλου 3
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Daikin Altherma R ECH₂O

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

- › Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- › Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- › Solar support of domestic hot water with pressureless (drain-back) solar system
- › Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



Efficiency data				EHSH + 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)	8.28(1) / 9.57(2) / 14.81(3) / 13.73(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(1) / 10.05(2) / 15.34(3) / 14.86(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)		2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	3.42(1) / 4.07(2) / 3.17(3) / 2.93(4)							
Power input				Heating	Nom.	kW										
COP																
Space heating	Average climate water outlet 55 °C	General	ηs (Seasonal space heating efficiency)	%	125	126	125		126		125					
							A++									
Domestic hot water heating	General	Declared load profile	Average climate	ηwh (water heating efficiency)	%											
						83										
						A										
Water heating energy efficiency class																
Indoor Unit				EHSH	16P50B											
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)												
	Material			Impact resistant polypropylene												
Dimensions	Unit	Height x Width x Depth		mm	1,945 / 1,890 x 790 x 790											
Weight	Unit			kg	113											
Tank	Water volume			l	477											
	Maximum water temperature			°C	85											
Operation range	Heating	Ambient	Min.~Max.	°C	-25~-35											
		Water side	Min.~Max.	°C	15 ~55											
	Domestic hot water	Ambient	Min.~Max.	°CDB	-25~-35											
		Water side	Min.~Max.	°C	25~55											
Sound power level	Nom.			dBA	40											
Sound pressure level	Nom.			dBA	28											
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1						
Dimensions	Unit	Height x Width x Depth		mm	1,345 x 900 x 320											
Weight	Unit			kg	113				114							
Compressor	Quantity				1											
	Type				Hermetically sealed scroll compressor											
Operation range	Cooling	Min.~Max.		°CDB	10.0~46.0											
	Domestic hot water	Min.~Max.		°CDB	-20 ~35											
Refrigerant	Type				R-410A											
	GWP				2,087.5											
	Charge			kg	3.4											
	Charge			TCO/Eq	71											
Sound power level	Heating	Nom.	dBA	Expansion valve (electronic type)												
				64		66		64		66		66				
Sound pressure level	Cooling	Nom.	dBA	64		66		69		64		66		69		
					51		52		51		52		54			
Power supply	Name/Phase/Frequency/Voltage	Hz/V	Current	Recommended fuses	A	50		52		54		50		52		54
						V3/1~/50/230		W1/3N~/50/400								
				40				20								

(1) Cooling Ta 35 °C - LWE 18 °C (DT = 5 °C); heating Ta DB/AB 7 °C/6 °C - LWC 35 °C (DT = 5 °C) (2) Cooling Ta 35 °C - LWE 7 °C (DT = 5 °C); heating Ta DB/AB 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.

ΚΛΙΜΑΜΗΧΑΝΙΚΗ Α.Ε

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Daikin Altherma R ECH₂O

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

- › Integrated solar unit, offering top comfort in heating and hot water
- › Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- › Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- › Bivalent system: combinable with a secondary heat source
- › Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › App control possible for managing heating and hot water operation



011-IW0068 → 78



A++



A

55 °C

R-410A

Efficiency data				EHSHB + 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
Power input	Heating	Nom.		kW		2.57(1) / 3.13(2) / 2.43(3) / 2.35(4)	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
COP						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
Space heating	Average climate water outlet 55 °C	General	η _{sp} (Seasonal space heating efficiency)	%		125	126	125		126	125
			Seasonal space heating eff. class					A++			
Domestic hot water heating	General	Declared load profile						XL			
	Average climate	η _{wh} (water heating efficiency)		%				84			
		Water heating energy efficiency class						A			
Indoor Unit				EHSHB		16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour					Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material					Impact resistant polypropylene					
Dimensions	Unit	Height x Width x Depth	mm			1,890 x 790 x 790					
Weight	Unit		kg			118					
Tank	Water volume		l			477					
	Maximum water temperature		°C			85					
Operation range	Heating	Ambient	Min.~Max.	°C		-25~-35					
		Water side	Min.~Max.	°C		15 ~55					
	Domestic hot water	Ambient	Min.~Max.	°CDB		-25~-35					
		Water side	Min.~Max.	°C		25~55					
Sound power level	Nom.			dBA		40					
Sound pressure level	Nom.			dBA		28					
Outdoor Unit				ERLQ-C		011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm			1,345 x 900 x 320					
Weight	Unit		kg			113					
Compressor	Quantity					1					
	Type					Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB			10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB			-20 ~35					
Refrigerant	Type					R-410A					
	GWP					2,087.5					
	Charge		kg			3.4					
	Charge		TCO _{Eq}			7.1					
	Control					Expansion valve (electronic type)					
Sound power level	Heating	Nom.	dBA			64	66	66	64	66	66
	Cooling	Nom.	dBA			64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dBA			51	51	52	51	51	52
	Cooling	Nom.	dBA			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.

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

- › Integrated solar unit, offering top comfort in heating, hot water and cooling
- › Maximum use of renewable energy: uses heat pump technology for heating and solar support for space heating and domestic hot water production
- › Fresh water principle: hygienic water, with no need for thermal legionella disinfection
- › Maintenance-free tank: no corrosion, anode, scale or lime deposits, and no loss of water through safety valve
- › Solar support of domestic hot water with pressureless (drain-back) solar system
- › Intelligent Heat Store management: continuous heating during defrost mode, and use of stored heat for space heating
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › App control possible for managing heating, hot water and cooling operation
- › Outdoor unit extracts heat from the outdoor air, even at -25 °C
- › Possible to connect to photovoltaic solar panels to provide energy for your heat pump



011-1W0096 → 104



A++



A

55 °C

R-410A

Efficiency data				EHSX + 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(1) / 3.13(2) / 2.43(3) / 2.35(4)	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					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
EER					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
Space heating	Average climate water outlet 55 °C	General	ns (Seasonal space heating efficiency) Seasonal space heating eff. class	%	128	130	127	128	130	127
 Domestic hot water heating	General Average climate	Declared load profile rwh (water heating efficiency) Water heating energy efficiency class		%	A++					
					XL					
					83					
					A					
Indoor Unit				EHSX	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)								
	Material	Impact resistant polypropylene								
Dimensions	Unit	Height x Width x Depth	mm		1,890 x 790 x 790		1,945 / 1,890 x 790 x 790		1,945 / 1,890 x 790 x 790	
Weight	Unit		kg		116		113		116	
Tank	Water volume		l				477			
	Maximum water temperature		°C				85			
Operation range	Heating	Ambient	Min.~Max.	°C			-25~35			
		Water side	Min.~Max.	°C			15~55			
	Cooling	Ambient	Min.~Max.	°CDB	10~43		---	10~43		---
		Water side	Min.~Max.	°C			---			
	Domestic hot water	Ambient	Min.~Max.	°CDB			-25~35			
		Water side	Min.~Max.	°C			25~55			
Sound power level	Nom.		dBA				40			
Sound pressure level	Nom.		dBA				28			
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm				1,345 x 900 x 320			
Weight	Unit		kg			113			114	
Compressor	Quantity						1			
	Type						Hermetically sealed scroll compressor			
Operation range	Cooling	Min.~Max.	°CDB				10.0~46.0			
	Domestic hot water	Min.~Max.	°CDB				-20~35			
Refrigerant	Type						R-410A			
	GWP						2,087.5			
	Charge	kg					3.4			
	Charge	TCO/Eq					7.1			
					Expansion valve (electronic type)					
Sound power level	Heating	Nom.	dBA		64	66	66	64	66	66
	Cooling	Nom.	dBA		64	66	69	64	66	69
Sound pressure level	Heating	Nom.	dBA		51	52	52	51	52	52
	Cooling	Nom.	dBA		50	52	54	50	52	54
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	40			20		

(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.

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- › Bivalent system: combinable with a secondary heat source



011-1W0096 → 104

Options

	Type	Material name
Controllers	Room thermostat RoCon U1	EHS157034
	Gateway RoCon G1 for apps	EHS157056
	Connection kit for MK1	VMK1
Back-up heater	Back-up heater 1kW	EKBUI1C
	Back-up heater 3kW	EKBUI3C
	Back-up heater 9kW	EKBUI9C
	Heat insulation for hydraulic separator (HWC)	WHWC
Installation	Separator for dirt	SA51
	Separator - hydraulic	HWC
Sensor	External sensor	EKRTET5
	Outdoor sensor for RoCon Controller	RoCon OT1
Others	Mixer module RoCon M1	EHS157068



A⁺⁺



A

55 °C

R-410A

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				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 / 2.4 / 3.15	
EER				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	
Space heating	 Average climate water outlet 55 °C	General	ry (Seasonal space heating efficiency) Seasonal space heating eff. class	%	128	130	127	128	130	127
Domestic hot water heating	 General	Declared load profile					A++			
	Average climate	rywh (water heating efficiency) Water heating energy efficiency class	%				XL 84 A			
Indoor Unit				EHSXB	16P50B	16P50B	16P50B	16P50B	16P50B	16P50B
Casing	Colour				Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material				Impact resistant polypropylene					
Dimensions	Unit	Height x Width x Depth	mm		1,890 x 790 x 790					
Weight	Unit		kg		118					
Tank	Water volume		l		477					
	Maximum water temperature		°C		85					
Operation range	Heating	Ambient Min.~Max.	°C		-25~-35					
	Water side	Min.~Max.	°C		15~55					
	Cooling	Ambient Min.~Max.	°CDB		10~43					
	Water side	Min.~Max.	°C							
	Domestic hot water	Ambient Min.~Max.	°CDB		-25~-35					
	Water side	Min.~Max.	°C		25~55					
Sound power level	Nom.		dBA		40					
Sound pressure level	Nom.		dBA		28					
Outdoor Unit				ERLQ-C	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	Height x Width x Depth	mm		1,345 x 900 x 320					
Weight	Unit		kg		113					
Compressor	Quantity				1					
	Type				Hermetically sealed scroll compressor					
Operation range	Cooling	Min.~Max.	°CDB		10.0~46.0					
	Domestic hot water	Min.~Max.	°CDB		~20 ~35					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Charge		kg		3.4					
	Charge		TCO/Eq		71					
	Control				Expansion valve (electronic type)					
Sound power level	Heating	Nom.	dBA		64		66		64	
	Cooling	Nom.	dBA		64		66		64	
Sound pressure level	Heating	Nom.	dBA			51			51	
	Cooling	Nom.	dBA			50			52	
Power supply	Name/Phase/Frequency/Voltage			Hertz/V	V3/~/50/230			W1/3N~/50/400		
Current	Recommended fuses			A	40			20		

(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.

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