

Daikin Altherma low temperature monobloc Technical Data

E(B-D)LA09-14D(3)W1 /

E(B-D)LA09-14D(3)V3 /

E(B-D)LA-D(3)W17 /

E(B-D)LA-D(3)V37



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1 Features

1 - 1 E(B-D)LA09-14D(3)W1/E(B-D)LA09-14D(3)V3/E(B-D)LA-D(3)W17/E(B-D)LA-D(3)V37

- › Monobloc all-in-one concept including hydraulic parts
- › W-LAN cartridge connection (optional)
- › Possible to combine with domestic hot water
- › Energy efficient heating and cooling system based on air to water heat pump technology
- › Separate back-up heater kit

1



Onecta app
(optional)



Online
controller

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DW1		EBLA11DW1		EBLA14DW1		
Heating capacity	Nom.		kW		9.37 (1) / 9.00 (2)		10.6 (1) / 9.82 (2)		12.0 (1) / 12.5 (2)		
Cooling capacity	Nom.		kW		9.35 (3) / 9.10 (4)		11.6 (3) / 11.5 (4)		12.8 (3) / 12.7 (4)		
Power input	Cooling			kW	2.79 (3) / 1.71 (4)		3.56 (3) / 2.17 (4)		4.06 (3) / 2.51 (4)		
	Heating			kW	1.91 (1) / 2.43 (2)		2.18 (1) / 2.68 (2)		2.46 (1) / 3.42 (2)		
COP					4.91 (1) / 3.71 (2)		4.83 (1) / 3.66 (2)		4.87 (1) / 3.64 (2)		
EER					3.35 (3) / 5.34 (4)		3.26 (3) / 5.31 (4)		3.16 (3) / 5.04 (4)		
SEER					5.62 (5)		5.79 (5)		5.71 (5)		
Casing	Colour				Silver						
	Material				Polyester painted galvanised steel plate						
Dimensions	Unit	Height	mm		870						
		Width	mm		1,380						
		Depth	mm		460						
	Packed unit	Height	mm		1,053						
		Width	mm		1,520						
		Depth	mm		650						
Weight	Unit			kg	147						
	Packed unit			kg	164						
Packing	Material				PE wrapping foil / Carton / Wood (pallet)						
	Weight				kg	17					
Heat exchanger	Length				mm	1,136 /1,166 /1,195					
	Rows	Quantity			3						
	Fin pitch				mm	1.4					
	Passes	Quantity			13						
	Face area				m²	0.950 /0.970 /1.00					
	Stages	Quantity			38						
	Empty tubeplate hole	Quantity			2						
	Tube type				7.0 Hi-XD						
	Fin	Type			WF fin						
	Fin Treatment				Anti-corrosion treatment						
	Fan	Type				Propeller fan					
		Quantity				1					
Discharge direction				Horizontal							
Air flow rate		Heating	High	m³/min	48.0	55.8		70.4			
		Cooling	High	m³/min	63.1	70.4		85.0			
Fan motor	Quantity				1						
Fan motor	Model				Brushless DC motor						
	Speed	Steps		8							
		Heating	Nom.	rpm	400	450		550			
		Cooling	Nom.	rpm	500	550		650			
	Output Drive				234						
	Drive				Direct drive						
Compressor	Quantity				1						
	Model				2Y350BPAY1P#C						
	Type				Hermetically sealed swing compressor						
PED	Category				Category II						
	Most critical part	Name		Accumulator							
Operation range	Heating	Ambient	Min.	°CDB	159						
			Max.	°CDB	-25						
		Water side	Min.	°C	25 (6)						
			Max.	°C	9 (6)						
		Cooling	Min.	°CDB	60 (6)						
			Max.	°CDB	10						
	Domestic hot water	Ambient	Min.	°CDB	43						
			Max.	°CDB	5						
		Water side	Min.	°C	22						
			Max.	°C	-25						
		Cooling	Min.	°CDB	35						
			Max.	°CDB	25						
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge				kg	3.80					
	Control				Expansion valve						
	Circuits Quantity				1						
Refrigerant oil	Type				FW68DA						
	Charged volume				l	1.35					
Defrost method					Reversed cycle						
Defrost control					Sensor for outdoor heat exchanger temperature						
Capacity control					Method Inverter controlled						

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DW1		EBLA11DW1		EBLA14DW1	
Safety devices	Item	01			High pressure switch					
		02			Low pressure switch					
		03			Fan driver overload protector					
		04			Fuse					
Safety devices	Item	05			Compressor motor thermal protector					
Pump	Quantity				1					
	Nr of speeds				PWM					
	Nominal ESP unit	Heating		kPa	106.5	102.9		97.6		
		Cooling		kPa	106.6	99.2		94.1		
	Power input				180					
Water side Heat exchanger	Type				Plate heat exchanger					
	Quantity				1					
	Water volume				2.16					
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)		30.3 (1) / 28.2 (2)		34.4 (1) / 35.7 (2)	
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)		33.2 (3) / 33.0 (4)		36.8 (3) / 36.3 (4)	
	Insulation material				EPDM type					
Expansion vessel	Heater				50.0					
	Volume				8					
	Max. water pressure				4					
	Pre pressure				1					
Water filter	Heater				65					
	Diameter perforations				0.8					
Water circuit	Material				Stainless steel					
	Piping connections diameter				G 1" (male)					
	Piping				1-1/4"					
	Piping length	Max.	OU - Tank		10					
		Level difference	Max.	m		5				
	Safety valve				3					
	Drain valve / fill valve				Yes					
	Shut off valve				Yes					
	Air purge valve				Yes (Manually)					
	Minimum water volume in the system				50 (7)					
General	Heater				66.0					
	Supplier/Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark			Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			No					
		Low-temperature heat pump			No					
		Supplementary heater integrated			No					
Water-to-water heat pump			No							
LW(A) Sound power level (according to EN14825)				62.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Space heating general	Air to water unit	Rated airflow (outdoor)			2,880		3,350		4,220	
		Other			Inverter					
	Pck (Crankcase heater mode)			0.000						
	Poff (Off mode)			0.023						
	Psb (Standby mode)			0.023						
	Pto (Thermostat off)			0.023						

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	5,404	6,134	6,651
			ηs (Seasonal space heating efficiency) %	135	132	134
			Prated at -10°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	19	22	24
			SCOP	3.44	3.37	3.42
			Seasonal space heating eff. class	A++		
			A Condition Cdh (Degradation heating)	1.0		
			(-7°CDB) COPd	2.09	1.90	2.02
			B/-8°CWB) Pdh kW	8.5	9.3	9.4
			PERd %	83.6	76.0	80.8
			B Condition Cdh (Degradation heating)	1.0		
			(2°CDB) COPd	3.28	3.25	3.28
			B/11°CWB) Pdh kW	5.0	5.4	6.2
			PERd %	131.2	130.0	131.2
			C Condition Cdh (Degradation heating)	1.0		
			(7°CDB) COPd	4.80	4.81	4.88
			B/6°CWB) Pdh kW		4.4	
			PERd %	192.0	192.4	195.2
			D Condition Cdh (Degradation heating)	1.0		
			(12°CDB) COPd	6.45	6.41	6.58
			B/11°CWB) Pdh kW		5.3	
			PERd %	258.0	256.4	263.2
			Tol (temperature operating limit) COPd	1.70	1.64	1.70
			Pdh kW	6.8	7.6	7.8
			PERd %	68.0	65.6	68.0
			TOL °C	-10		
			WTOL °C	55		
			Rated heat output supplementary capacity Psup (at Tdesign -10°C) kW	2.2	2.4	3.2
			Tbiv (bivalent temperature) COPd	1.92	1.90	2.09

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 55°C	Tbiv	Pdh	kW	8.8	9.3	9.4
		(bivalent tempera- ture)	PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,092	7,848	8,808
			ηs (Seasonal space heating efficiency)	%	122	123	120
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	26	28	32
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690
			ηs (Seasonal space heating efficiency)	%	168	170	172
			Prated at 2°C	kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV)	Gj	10	11	13
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd		3.65	3.74	3.83
			Pdh	kW		6.2	7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd			5.68	5.69
			Pdh	kW		5.0	
			PERd	%		227.2	227.6
		Tbiv (bivalent tempera- ture)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C		2	3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838
			ηs (Seasonal space heating efficiency)	%	190	186	185
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17
			SCOP		4.82	4.73	4.70
			Seasonal space heating eff. class			A+++	
		A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
		B Condition (2°CDB/1°CWB)	PERd	%	122.8	121.2	118.0
			Cdh (Degradation heating)			1.0	

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA09DW1		EBLA11DW1		EBLA14DW1	
 Space heating	Average climate water outlet 35°C	B Condition (2°CΔ- B/1°CWB)	COPd		4.52		4.37		4.35
			Pdh	kW		5.5		6.1	
			PERd	%	180.8		174.8		174.0
		C Condition (7°CΔ- B/6°CWB)	Cdh (Degradation heating)			1.0			
			COPd		6.78		6.74		6.70
			Pdh	kW	4.7		4.6		
		PERd	%	271.2		269.6		268.0	
		D Condition (12°CΔ- B/11°CWB)	Cdh (Degradation heating)			1.0			
			COPd		8.75		8.54		8.65
			Pdh	kW	5.5		5.4		
		PERd	%	350.0		341.6		346.0	
		Tol (temperature operating limit)	COPd		2.64		2.58		2.51
			Pdh	kW	8.3		10.1		11.2
			PERd	%	105.6		103.2		100.4
	TOL	°C			-10				
	WTOL	°C			35				
	Tbiv (bivalent temperature)	COPd		2.75		2.58		2.51	
		Pdh	kW	8.7		10.1		11.2	
		PERd	%	110.0		103.2		100.4	
		Tbiv	°C	-9		-10			
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7		0.0			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980		5,732		6,266
			ηs (Seasonal space heating efficiency)	%	175		169		170
			Prated at -22°C	kW	9.0		10.0		11.0
			Qhe Annual energy consumption (GCV)	Gj	18		21		23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938		2,128		2,333
			ηs (Seasonal space heating efficiency)	%	243		248		249
			Prated at 2°C	kW	9.0		10.0		11.0
			Qhe Annual energy consumption (GCV)	Gj	7		8		
		B Condition (2°CΔ- B/1°CWB)	Cdh (Degradation heating)			1.0			
			COPd		3.36		3.30		3.45
			Pdh	kW	9.0		10.3		10.8
		PERd	%	134.4		132.0		138.0	
		C Condition (7°CΔ- B/6°CWB)	Cdh (Degradation heating)			1.0			
			COPd		5.59		5.70		5.77
			Pdh	kW	5.9		6.7		7.4
PERd		%	223.6		228.0		230.8		
 Space heating	Warm climate water outlet 35°C	D Condition (12°CΔ- B/11°CWB)	Cdh (Degradation heating)			1.0			
			COPd		7.87		7.73		
			Pdh	kW		5.2			
		PERd	%	314.8		309.2			
		Tbiv (bivalent temperature)	COPd		3.36		3.30		3.45
			Pdh	kW	9.0		10.3		10.8
PERd	%		134.4		132.0		138.0		
Tbiv	°C			2					
Control systems	Class of temperature control				VI				
	Contribution to seasonal space heating efficiency			%	4				
Electrical specifications				EBLA09DW1		EBLA11DW1		EBLA14DW1	
Compressor	Starting method			Inverter driven					
Pump	Type			Grundfos UPMXL GEO 25-125 130 PWM					
Compressor component	Main power supply	Phase		3N~					
		Voltage	V	400					
		Min.	%	-10					
		Max.	%	10					
Power supply	Name	Phase		W1					
		Frequency	Hz	50					
		Voltage	V	400					
		Min.	%	-10					
Voltage range	Max.		%	10					
			%						

2 Specifications

2 - 1 Specifications

Electrical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
Current	Maximum running current	Heating	A	14.0		
	Recommended fuses		A	16		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm ²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm ²		
	A3P	Quantity		4		
		Type of wires		Select diameter and type according to national and local regulations		
	M2S	Quantity		2		
		Type of wires		Select diameter and type according to national and local regulations		
	M3S	Quantity		3		
		Type of wires		Select diameter and type according to national and local regulations		
	Quantity			2		
	Type of wires			Wire included in option EKFLSW1		
	For power supply	Quantity		4G		
		Remark		See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity		4		
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm ² (P1P2)		
	Preferential kWh rate	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
	Domestic hot water pump	Remark		Minimum 0.75 mm ²		
	Cable requirements	Cooling/ Heating output	Maximum running current	A	3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA16DW17
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Cooling capacity	Nom.	kW		14.0 (3) / 15.3 (4)
Power input	Cooling	kW		4.58 (3) / 3.24 (4)
	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		147
	Packed unit	kg		164
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16DW17	
Heat exchanger	Length		mm		1,136 /1,166 /1,195	
	Rows	Quantity		3		
	Fin pitch		mm		1.4	
	Passes	Quantity		13		
	Face area		m²		0.950 /0.970 /1.00	
	Stages	Quantity		38		
	Empty tubeplate hole	Quantity		2		
	Tube type		7.0 Hi-XD			
	Fin	Type	WF fin			
	Treatment		Anti-corrosion treatment			
Fan	Type		Propeller fan			
	Quantity		1			
	Discharge direction		Horizontal			
	Air flow rate	Heating	High	m³/min	85.0	
	Cooling	High	m³/min	85.0		
Fan motor	Quantity		1			
	Model		Brushless DC motor			
Fan motor	Speed	Steps	8			
		Heating	Nom.	rpm	650	
		Cooling	Nom.	rpm	650	
	Output			W	234	
	Drive	Direct drive				
	Compressor	Quantity		1		
Model		2Y350BPAY1P#C				
Type		Hermetically sealed swing compressor				
PED	Category		Category II			
	Most critical part	Name	Accumulator			
	Ps*V	Bar*l				
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	25 (6)	
		Water side	Min.	°C	9 (6)	
			Max.	°C	60 (6)	
	Cooling	Ambient	Min.	°CDB	10	
			Max.	°CDB	43	
		Water side	Min.	°C	5	
			Max.	°C	22	
	Domestic hot water	Ambient	Min.	°CDB	-25	
			Max.	°CDB	35	
		Water side	Min.	°C	25	
			Max.	°C	55 (6)	
	Refrigerant	Type	R-32			
		GWP	675.0			
Charge		kg		3.80		
Control		Expansion valve				
Circuits		Quantity	1			
Refrigerant oil	Type	FW68DA				
	Charged volume	l		1.35		
Defrost method		Reversed cycle				
Defrost control		Sensor for outdoor heat exchanger temperature				
Capacity control		Method	Inverter controlled			
Safety devices	Item	01	High pressure switch			
		02	Low pressure switch			
		03	Fan driver overload protector			
		04	Fuse			
Safety devices	Item	05	Compressor motor thermal protector			
Pump	Quantity		1			
	Nr of speeds		PWM			
	Nominal ESP unit	Heating	kPa	76.7		
		Cooling	kPa	88.4		
	Power input		W			
	180					
Water side Heat exchanger	Type		Plate heat exchanger			
	Quantity		1			
	Water volume		l			
		2.16				
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
		Cooling	Nom.	l/min	40.2 (3) / 43.9 (4)	
	Insulation material		EPDM type			
Heater	W					
	50.0					

2 Specifications

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Technical specifications				EBLA16DW17
Expansion vessel	Volume	l		8
	Max. water pressure	bar		4
	Pre pressure	bar		1
	Heater	W		65
Water filter	Diameter perforations	mm		0.8
	Material			Stainless steel
Water circuit	Piping connections diameter	inch		G 1" (male)
	Piping	inch		1-1/4"
	Piping Max. length	OU - Tank m		10
	Level difference	Max. m		5
	Safety valve	bar		3
	Drain valve / fill valve			Yes
	Shut off valve			Yes
	Air purge valve			Yes (Manually)
	Minimum water volume in the system	l		50 (7)
	Heater	W		66.0
General	Supplier/ Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
		Name or trademark		Daikin Europe N.V.
	Product description	Air-to-water heat pump		Yes
		Brine-to-water heat pump		No
		Heat pump combination heater		No
		Low-temperature heat pump		No
		Supplementary heater integrated		No
		Water-to-water heat pump		No
	LW(A) Sound power level (according to EN14825)	dB(A)		62.0
	Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	5,100
	Other	Capacity control		Inverter
		Pck (Crankcase heater mode)	kW	0.000
		Poff (Off mode)	kW	0.023
		Psb (Standby mode)	kW	0.023
		Pto (Thermostat off)	kW	0.023

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA16DW17
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,359
			ηs (Seasonal space heating efficiency) %	132
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	26
			SCOP	3.37
			Seasonal space heating eff. class	A++
			A Condition Cdh (Degradation heating)	1.0
			(-7°CDB/-8°CWB) COPd	1.95
			Pdh kW	9.4
			PERd %	78.0
			B Condition Cdh (Degradation heating)	1.0
			(2°CDB/11°CWB) COPd	3.27
			Pdh kW	6.9
			PERd %	130.8
			C Condition Cdh (Degradation heating)	1.0
			(7°CDB/6°CWB) COPd	4.93
			Pdh kW	4.4
			PERd %	197.2
			D Condition Cdh (Degradation heating)	1.0
			(12°CDB/11°CWB) COPd	6.60
			Pdh kW	5.3
			PERd %	264.0
			Tol (temperature operating limit) COPd	1.67
			Pdh kW	8.0
			PERd %	66.8
			TOL °C	-10
			WTOL °C	55
			Rated heat output supplementary capacity Psup (at Tdesign -10°C) kW	4.1
			Tbiv (bivalent temperature) COPd	2.13

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16DW17
Space heating	Average climate water outlet 55°C	Tbiv (bivalent temperature)	Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,510
			ηs (Seasonal space heating efficiency)	%	121
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,418
			ηs (Seasonal space heating efficiency)	%	168
			Prated at 2°C	kW	14.1
			Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
	Average climate water outlet 35°C	Tbiv (bivalent temperature)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
		General	Annual energy consumption	kWh	5,281
			ηs (Seasonal space heating efficiency)	%	185
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.69
			Seasonal space heating eff. class		A+++
		A Condition (-7°CDB/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
		B Condition (2°CDB/1°CWB)	PERd	%	114.8
			Cdh (Degradation heating)		1.0

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA16DW17
Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	COPd	4.33
			Pdh kW	6.7
			PERd %	173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0
			COPd	6.83
			Pdh kW	4.7
		D Condition (12°CDB/11°CWB)	PERd %	273.2
			Cdh (Degradation heating)	1.0
			COPd	8.82
		Tol (temperature operating limit)	Pdh kW	5.5
			PERd %	352.8
			TOL °C	-10
	Cold climate water outlet 35°C	General	WTOL °C	35
			Tbiv COPd	2.48
			Pdh kW	11.8
		General	PERd %	99.2
			TOL °C	-10
			WTOL °C	35
		General	Tbiv COPd	2.48
			Pdh kW	11.8
			PERd %	99.2
		General	Tbiv °C	-10
			Rated heat output supplementary capacity	0.0
			Psup (at Tdesign -10°C) kW	0.0
Space heating	Warm climate water outlet 35°C	General	Annual energy consumption	7,245
			ηs (Seasonal space heating efficiency)	160
			Prated at -22°C kW	12.0
		General	Qhe Annual energy consumption (GCV) GJ	26
			Annual energy consumption	2,573
			ηs (Seasonal space heating efficiency)	246
			Prated at 2°C kW	12.0
		General	Qhe Annual energy consumption (GCV) GJ	9
			Annual energy consumption	2,573
			ηs (Seasonal space heating efficiency)	246
			Prated at 2°C kW	12.0
		General	Qhe Annual energy consumption (GCV) GJ	9
Control systems	Class of temperature control	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0
			COPd	3.30
			Pdh kW	11.9
		C Condition (7°CDB/6°CWB)	PERd %	132.0
			Cdh (Degradation heating)	1.0
			COPd	5.64
		D Condition (12°CDB/11°CWB)	Pdh kW	8.1
			PERd %	225.6
			Cdh (Degradation heating)	1.0
		Tbiv (bivalent temperature)	COPd	7.73
			Pdh kW	5.2
			PERd %	309.2

Electrical specifications				EBLA16DW17
Compressor	Starting method			Inverter driven
Pump	Type			Grundfos UPMXL GE0 25-125 130 PWM
Compressor component	Main power supply	Phase	Voltage	3N~
				400
				-10
				10
Power supply	Name	Phase	Frequency	W1
				3~
				50
				400
Voltage range	Min.	Max.	%	-10
				10

2 Specifications

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Electrical specifications				EBLA16DW17
Current	Maximum running current	Heating	A	14.0
	Recommended fuses		A	16
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		4G
		Remark		See installation manual outdoor unit
Wiring connections	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
		Type of wires		0,75 ~1,25 mm ² (P1P2)
	Preferential kWh rate	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
	Domestic hot water pump	Remark		Minimum 0.75 mm ²
	Cable requirements	Cooling/ Heating output	Maximum running current	A
				3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Cooling capacity	Nom.	kW		9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)
Heater capacity	Step 1	kW			3	
Power input	Cooling	kW		2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER				3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER				5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour				Silver	
	Material				Polyester painted galvanised steel plate	
Dimensions	Unit	Height	mm		870	
		Width	mm		1,380	
		Depth	mm		460	
	Packed unit	Height	mm		1,053	
		Width	mm		1,520	
		Depth	mm		650	
Weight	Unit	kg			149	
	Packed unit	kg			166	
Packing	Material				PE wrapping foil / Carton / Wood (pallet)	
	Weight	kg			17	

2 Specifications

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Technical specifications					EBLA09D3W1		EBLA11D3W1		EBLA14D3W1	
Heat exchanger	Length		mm		1,136 /1,166 /1,195					
	Rows	Quantity		3						
	Fin pitch		mm		1.4					
	Passes	Quantity		13						
	Face area		m²		0.950 /0.970 /1.00					
	Stages	Quantity		38						
	Empty tubeplate hole	Quantity		2						
	Tube type		7.0 Hi-XD							
	Fin	Type	WF fin							
	Treatment		Anti-corrosion treatment							
Fan	Type		Propeller fan							
	Quantity		1							
	Discharge direction		Horizontal							
	Air flow rate	Heating	High	m³/min	48.0	55.8		70.4		
	Cooling	High	m³/min	63.1	70.4		85.0			
Fan motor	Quantity		1							
Fan motor	Model		Brushless DC motor							
	Speed	Steps		8						
		Heating	Nom.	rpm	400	450		550		
		Cooling	Nom.	rpm	500	550		650		
	Output		W		234					
	Drive		Direct drive							
Compressor	Quantity		1							
	Model		2Y350BPAY1P#C							
	Type		Hermetically sealed swing compressor							
PED	Category		Category II							
	Most critical part	Name		Accumulator						
		Ps*V	Bar*I		159					
Operation range	Heating	Ambient	Min.	°CDB	-25					
			Max.	°CDB	35					
		Water side	Min.	°C	15 (6)					
			Max.	°C	60 (6)					
	Cooling	Ambient	Min.	°CDB	10					
			Max.	°CDB	43					
		Water side	Min.	°C	5					
			Max.	°C	22					
	Domestic hot water	Ambient	Min.	°CDB	-25					
			Max.	°CDB	35					
		Water side	Min.	°C	25					
			Max.	°C	55 (6)					
Refrigerant	Type		R-32							
	GWP		675.0							
	Charge		kg		3.80					
	Control		Expansion valve							
	Circuits	Quantity		1						
Refrigerant oil	Type		FW68DA							
	Charged volume		l		1.35					
Defrost method					Reversed cycle					
Defrost control					Sensor for outdoor heat exchanger temperature					
Capacity control					Method		Inverter controlled			
Safety devices	Item	01		High pressure switch						
		02		Low pressure switch						
		03		Fan driver overload protector						
Safety devices	Item	04		Fuse						
		05		Compressor motor thermal protector						
Pump	Quantity		1							
	Nr of speeds		PWM							
	Nominal ESP unit	Heating		kPa	106.9	102.7		96.5		
		Cooling		kPa	107.0	98.4		92.3		
	Power input		W		180					
Water side Heat exchanger	Type		Plate heat exchanger							
	Quantity		1							
	Water volume		l		2.16					
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)		30.3 (1) / 28.2 (2)		34.4 (1) / 35.7 (2)	
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)		33.2 (3) / 33.0 (4)		36.8 (3) / 36.3 (4)	
	Insulation material		EPDM type							
	Heater		W		50.0					

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Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1		
Expansion vessel	Volume		l	8				
	Max. water pressure		bar	4				
	Pre pressure		bar	1				
	Heater		W	65				
Water filter	Diameter perforations		mm	0.8				
	Material			Stainless steel				
Water circuit	Piping connections diameter		inch	G 1" (male)				
	Piping		inch	1-1/4"				
	Piping	Max.	OU - Tank	m	10			
	length							
	Level	Max.		m	5			
	difference							
	Safety valve		bar	3				
	Drain valve / fill valve			Yes				
	Shut off valve			Yes				
	Air purge valve			Yes				
	Minimum water volume in the system		l	20 (7)				
Heater		W	66.0					
General	Supplier/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium				
	Manufactur- er details	Name or trademark		Daikin Europe N.V.				
	Product	Air-to-water heat pump		Yes				
	description	Brine-to-water heat pump		No				
		Heat pump combination heater		No				
		Low-temperature heat pump		No				
Supplementary heater integrated		Yes						
General	Product description	Water-to-water heat pump		No				
LW(A) Sound power level (according to EN14825)			dB(A)	62.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825				
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	2,880	3,350	4,220	
		Other			Inverter			
		Capacity control			Inverter			
		Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.023			
		Psb (Standby mode)		kW	0.023			
		Pto (Thermostat off)		kW	0.023			
	Integrated supplemen- tary heater	Type of energy input			Electrical			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651	
			ηs (Seasonal space heating efficiency)	%	135	132	134	
			Prated at -10°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	19	22	24	
			SCOP		3.44	3.37	3.42	
			Seasonal space heating eff. class		A+ +			
		A Condition (-7°CDB- B/-8°CWB)	Cdh (Degradation heating)			1.0		
			COPd		2.09	1.90	2.02	
			Pdh	kW	8.5	9.3	9.4	
			PERd	%	83.6	76.0	80.8	
	B Condition (2°CDB- B/1°CWB)		Cdh (Degradation heating)			1.0		
			COPd		3.28	3.25	3.28	
		Pdh	kW	5.0	5.4	6.2		
		PERd	%	131.2	130.0	131.2		
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0		
			COPd		4.80	4.81	4.88	
	Pdh		kW		4.4			
		PERd	%	192.0	192.4	195.2		
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0		
			COPd		6.45	6.41	6.58	
	Pdh		kW		5.3			
	Tol (tem- perature operating limit)		PERd	%	258.0	256.4	263.2	
			COPd		1.70	1.64	1.70	
			Pdh	kW	6.8	7.6	7.8	
			PERd	%	68.0	65.6	68.0	
TOL			°C		-10			
	WTOL	°C		55				

2 Specifications

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Technical specifications				EBLA09D3W1		EBLA11D3W1		EBLA14D3W1	
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	2.2		2.4		3.2	
		Tbiv (bivalent temperature)	COPd kW	1.92		1.90		2.09	
		Pdh %	8.8		9.3		9.4		
		PERd °C	76.8		76.0		83.6		
		Tbiv °C		-8		-7		-6	
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,092		7,848		8,808	
		ηs (Seasonal space heating efficiency)	%	122		123		120	
		Prated at -22°C	kW	9.0		10.0		11.0	
		Qhe Annual energy consumption (GCV)	Gj	26		28		32	
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820		3,083		3,690	
		ηs (Seasonal space heating efficiency)	%	168		170		172	
		Prated at 2°C	kW	9.0		10.0		12.1	
		Qhe Annual energy consumption (GCV)	Gj	10		11		13	
	B Condition (2°CDB-B/1°CWB)	Cdh (Degradation heating)				1.0			
		COPd		2.12		2.18		2.17	
		Pdh kW		9.0				9.8	
		PERd %		84.8		87.2		86.8	
	C Condition (7°CDB-B/6°CWB)	Cdh (Degradation heating)				1.0			
		COPd		3.65		3.74		3.83	
		Pdh kW		6.2				7.6	
		PERd %		146.0		149.6		153.2	
	D Condition (12°CDB-B/11°CWB)	Cdh (Degradation heating)				1.0			
		COPd		5.68				5.69	
		Pdh kW				5.0			
		PERd %		227.2				227.6	
Tbiv (bivalent temperature)	COPd		2.12		2.18		2.40		
	Pdh kW		9.0		9.8		11.0		
	PERd %		84.8		87.2		96.0		
	Tbiv °C		2				3		
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854		4,371		4,838	
		ηs (Seasonal space heating efficiency)	%	190		186		185	
		Prated at -10°C	kW	9.0		10.0		11.0	
		Qhe Annual energy consumption (GCV)	Gj	14		16		17	
		SCOP		4.82		4.73		4.70	
		Seasonal space heating eff. class				A++			
	A Condition (-7°CDB/-8°CWB)	COPd		3.07		3.03		2.95	
		Pdh kW		8.5		9.2		10.1	

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Technical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	
 Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	122.8	121.2	118.0	
			Cdh (Degradation heating)					
			B Condition (2°CDB/-B/1°CWB)	COPd		4.52	4.37	4.35
				Pdh	kW	5.5		
		PERd		%	180.8	174.8	174.0	
		C Condition (7°CDB/-B/6°CWB)	Cdh (Degradation heating)					1.0
			COPd		6.78	6.74	6.70	
			Pdh	kW	4.7	4.6		
			PERd	%	271.2	269.6	268.0	
		D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)					1.0
			COPd		8.75	8.54	8.65	
			Pdh	kW	5.5	5.4		
			PERd	%	350.0	341.6	346.0	
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51	
			Pdh	kW	8.3	10.1	11.2	
			PERd	%	105.6	103.2	100.4	
			TOL	°C	-10			
			WTOL	°C	35			
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	
			Pdh	kW	8.7	10.1	11.2	
	PERd		%	110.0	103.2	100.4		
	Tbiv		°C	-9	-10			
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980	5,732	6,266	
			ηs (Seasonal space heating efficiency)	%	175	169	170	
			Prated at -22°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	18	21	23	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333	
			ηs (Seasonal space heating efficiency)	%	243	248	249	
			Prated at 2°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	7	8		
		B Condition (2°CDB/-B/1°CWB)	Cdh (Degradation heating)					1.0
COPd				3.36	3.30	3.45		
Pdh			kW	9.0	10.3	10.8		
PERd			%	134.4	132.0	138.0		
C Condition (7°CDB/-B/6°CWB)		Cdh (Degradation heating)					1.0	
		COPd		5.59	5.70	5.77		
		Pdh	kW	5.9	6.7	7.4		
		PERd	%	223.6	228.0	230.8		
Space heating	Warm climate water outlet 35°C	D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)					1.0
			COPd		7.87		7.73	
			Pdh	kW	5.2			
			PERd	%	314.8	309.2		
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
			Tbiv	°C	2			
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency				4			
Electrical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	
Compressor	Starting method				Inverter driven			
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM			
Compressor component	Main power supply	Phase			3N~			
			Voltage	V	400			
		Voltage range	Min.	%	-10			
			Max.	%	10			

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Electrical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1		
Hydraulic component	Back-up heater current	Type			3V3				
		Power	Phase			1~			
		supply	Frequency	Hz			50		
			Voltage	V			230		
		Running current	Back-up heater	A			13.0		
	Voltage range	Min.	%		-10				
		Max.	%		10				
	Wiring connections	Type of wires		Select diameter and type according to national and local regulations					
Power supply	Name		W1						
	Phase		3~						
	Frequency		Hz	50					
	Voltage		V	400					
Voltage range	Min.		%		-10				
	Max.		%		10				
Current	Maximum running current	Heating	A		14.0				
		Recommended fuses		A	16				
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G					
		Type of wires		Minimum 2.5 mm ²					
	R5T	Quantity		2					
		Type of wires		Wire included in option EKHWS*					
	For connection with R6T	Quantity		2					
		Remark		Minimum 0.75 mm ²					
	A3P	Quantity		4					
		Type of wires		Select diameter and type according to national and local regulations					
	M2S	Quantity		2					
			Type of wires		Select diameter and type according to national and local regulations				
	M3S	Quantity		3					
		Type of wires		Select diameter and type according to national and local regulations					
Wiring connections	Quantity		2						
	Type of wires		Wire included in option EKFLSW1						
	For power supply	Quantity		4G					
		Remark		See installation manual outdoor unit					
	For connection with user interface	Quantity		4					
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)					
			Type of wires		0,75 ~1,25 mm ² (P1P2)				
	Preferential kWh rate power supply	Quantity		Power: 2					
		Remark		Power 6.3A					
	Domestic hot water pump	Quantity		3					
Remark		Minimum 0.75 mm ²							
Cable requirements	Cooling/ Heating output	Maximum running current		A	3				

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA16D3W17
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Cooling capacity	Nom.	kW		14.0 (3) / 15.3 (4)
Heater capacity	Step 1	kW		3
Power input	Cooling	kW		4.58 (3) / 3.24 (4)
	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate

2 Specifications

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Technical specifications					EBLA16D3W17		
Dimensions	Unit	Height	mm		870		
		Width	mm		1,380		
		Depth	mm		460		
	Packed unit	Height	mm		1,053		
		Width	mm		1,520		
		Depth	mm		650		
Weight	Unit	kg		149			
	Packed unit	kg		166			
Packing	Material	PE wrapping foil / Carton / Wood (pallet)					
	Weight	kg		17			
Heat exchanger	Length	mm		1,136 /1,166 /1,195			
	Rows	Quantity		3			
	Fin pitch	mm		1.4			
	Passes	Quantity		13			
	Face area	m²		0.950 /0.970 /1.00			
	Stages	Quantity		38			
	Empty tubeplate hole	Quantity		2			
	Tube type	7.0 Hi-XD					
	Fin	Type	WF fin				
		Treatment	Anti-corrosion treatment				
	Fan	Type	Propeller fan				
		Quantity	1				
Discharge direction		Horizontal					
Air flow rate		Heating	High	m³/min		85.0	
		Cooling	High	m³/min		85.0	
Fan motor	Quantity	1					
Fan motor	Model	Brushless DC motor					
	Speed	Steps	8				
		Heating	Nom.	rpm		650	
		Cooling	Nom.	rpm		650	
	Output	W		234			
	Drive	Direct drive					
Compressor	Quantity	1					
	Model	2Y350BPAY1P#C					
PED	Type	Hermetically sealed swing compressor					
	Category	Category II					
	Most critical part	Name	Accumulator				
Operation range	Heating	Ambient	Min.	°CDB		159	
			Max.	°CDB		-25	
		Water side	Min.	°C		35	
			Max.	°C		15 (6)	
		Cooling	Ambient	Min.	°CDB		60 (6)
				Max.	°CDB		10
	Cooling	Water side	Min.	°C		43	
			Max.	°C		5	
		Domestic hot water	Ambient	Min.	°CDB		22
				Max.	°CDB		-25
		Water side	Min.	°C		35	
			Max.	°C		25	
Refrigerant	Type	R-32					
	GWP	675.0					
	Charge	kg		3.80			
	Control	Expansion valve					
	Circuits	Quantity	1				
Refrigerant oil	Type	FW68DA					
	Charged volume	l		1.35			
Defrost method	Reversed cycle						
Defrost control	Sensor for outdoor heat exchanger temperature						
Capacity control	Method	Inverter controlled					
Safety devices	Item	01	High pressure switch				
		02	Low pressure switch				
		03	Fan driver overload protector				
Safety devices	Item	04	Fuse				
		05	Compressor motor thermal protector				
Pump	Quantity	1					
	Nr of speeds	PWM					
	Nominal ESP unit	Heating	kPa		71.4		
		Cooling	kPa		85.5		
	Power input	W		180			

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Technical specifications				EBLA16D3W17
Water side Heat exchanger	Type			Plate heat exchanger
	Quantity			1
	Water volume		l	2.16
	Water flow rate	Heating	Nom. l/min	45.9 (1) / 45.9 (2)
		Cooling	Nom. l/min	40.2 (3) / 43.9 (4)
	Insulation material			EPDM type
Expansion vessel	Heater		W	50.0
	Volume		l	8
	Max. water pressure		bar	4
	Pre pressure		bar	1
	Heater		W	65
Water filter	Diameter perforations		mm	0.8
	Material			Stainless steel
Water circuit	Piping connections diameter		inch	G 1" (male)
	Piping		inch	1-1/4"
	Piping length	Max.	OU - Tank m	10
	Level difference	Max.	m	5
	Safety valve		bar	3
	Drain valve / fill valve			Yes
	Shut off valve			Yes
	Air purge valve			Yes
	Minimum water volume in the system		l	20 (7)
	Heater		W	66.0
General	Supplier/ Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
	Manufacturer details	Name or trademark		Daikin Europe N.V.
	Product description	Air-to-water heat pump		Yes
		Brine-to-water heat pump		No
		Heat pump combination heater		No
		Low-temperature heat pump		No
General	Product description	Supplementary heater integrated		Yes
		Water-to-water heat pump		No
LW(A) Sound power level (according to EN14825)			dB(A)	62.0
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	5,100
	Other	Capacity control		Inverter
		Pck (Crankcase heater mode)	kW	0.000
		Poff (Off mode)	kW	0.023
		Psb (Standby mode)	kW	0.023
		Pto (Thermostat off)	kW	0.023
	Integrated supplementary heater	Type of energy input		Electrical

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Technical specifications				EBLA16D3W17
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,359
			ηs (Seasonal space heating efficiency) %	132
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	26
			SCOP	3.37
			Seasonal space heating eff. class	A++
			A Condition Cdh (Degradation heating)	1.0
			(-7°CDB) COPd	1.95
			B/-8°CWB) Pdh kW	9.4
			PERd %	78.0
			B Condition Cdh (Degradation heating)	1.0
			(2°CDB) COPd	3.27
			B/11°CWB) Pdh kW	6.9
			PERd %	130.8
			C Condition Cdh (Degradation heating)	1.0
			(7°CDB) COPd	4.93
			B/6°CWB) Pdh kW	4.4
			PERd %	197.2
			D Condition Cdh (Degradation heating)	1.0
			(12°CDB) COPd	6.60
			B/11°CWB) Pdh kW	5.3
			PERd %	264.0
			Tol (temperature operating limit) COPd	1.67
			Pdh kW	8.0
			PERd %	66.8
			TOL °C	-10
			WTOL °C	55

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Technical specifications				EBLA16D3W17
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	4.1
		Tbiv (bivalent temperature)	COPd	2.13
			Pdh kW	10.1
			PERd %	85.2
			Tbiv °C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	9,510
			ηs (Seasonal space heating efficiency)	121
			Prated at -22°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	34
	Warm climate water outlet 55°C	General	Annual energy consumption	4,418
			ηs (Seasonal space heating efficiency)	168
			Prated at 2°C kW	14.1
			Qhe Annual energy consumption (GCV) GJ	16
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0
			COPd	2.17
			Pdh kW	9.8
			PERd %	86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0
			COPd	3.73
			Pdh kW	9.1
			PERd %	149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0
			COPd	5.69
			Pdh kW	5.0
			PERd %	227.6
		Tbiv (bivalent temperature)	COPd	2.51
			Pdh kW	12.1
			PERd %	100.4
			Tbiv °C	4
	Average climate water outlet 35°C	General	Annual energy consumption	5,281
			ηs (Seasonal space heating efficiency)	185
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	19
			SCOP	4.69
			Seasonal space heating eff. class	A++
		A Condition (-7°CDB/-8°CWB)	COPd	2.87
			Pdh kW	11.2

2 Specifications

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Technical specifications					EBLA16D3W17
 Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	114.8
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
		WTOL	°C	35	
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
	PERd		%	99.2	
	Tbiv		°C	-10	
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
			ηs (Seasonal space heating efficiency)	%	160
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0
COPd				3.30	
Pdh			kW	11.9	
PERd			%	132.0	
C Condition (7°CDB- B/6°CWB)		Cdh (Degradation heating)		1.0	
		COPd		5.64	
		Pdh	kW	8.1	
		PERd	%	225.6	
Space heating	Warm climate water outlet 35°C	D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control			VI	
Contribution to seasonal space heating efficiency			%	4	
Electrical specifications					EBLA16D3W17
Compressor	Starting method			Inverter driven	
Pump	Type			Grundfos UPMXL GEO 25-125 130 PWM	
Compressor component	Main power supply	Phase		3N~	
		Voltage	V	400	
		Min.	%	-10	
		Max.	%	10	

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Electrical specifications					EBLA16D3W17		
Hydraulic component	Back-up heater current	Type			3V3		
		Power	Phase			1~	
		supply	Frequency	Hz			50
			Voltage	V			230
		Running current	Back-up heater	A			13.0
	Voltage range	Min.			%	-10	
		Max.			%	10	
	Wiring connections	Type of wires	Select diameter and type according to national and local regulations				
Power supply	Name	W1					
	Phase	3~					
	Frequency			Hz	50		
	Voltage			V	400		
Voltage range	Min.			%	-10		
	Max.			%	10		
Current	Maximum running current	Heating			A	14.0	
		Recommended fuses			A	16	
Wiring connections	Optional domestic hot water tank + Q2L	Quantity	3G				
		Type of wires	Minimum 2.5 mm ²				
	R5T	Quantity	2				
		Type of wires	Wire included in option EKHWS*				
	For connection with R6T	Quantity	2				
		Remark	Minimum 0.75 mm ²				
	A3P	Quantity	4				
		Type of wires	Select diameter and type according to national and local regulations				
	M2S	Quantity	2				
	M3S	Type of wires	Select diameter and type according to national and local regulations				
Quantity		3					
Wiring connections	Type of wires	Type of wires	Select diameter and type according to national and local regulations				
		Quantity	2				
	For power supply	Quantity	Wire included in option EKFLSW1				
		Remark	4G				
	For connection with user interface	Quantity	See installation manual outdoor unit				
		Remark	4				
	Preferential kWh rate power supply	Type of wires	0.75 mm ² till 1.25 mm ² (max length 200 m)				
		Quantity	0,75 ~1,25 mm ² (P1P2)				
	Domestic hot water pump	Power: 2					
		Remark	Power 6.3A				
Cable requirements	Cooling/ Heating output	Quantity	3				
		Remark	Minimum 0.75 mm ²				
Cable requirements	Cooling/ Heating output	Maximum running current			A	3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Cooling capacity	Nom.	kW		9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)
Power input	Cooling	kW		2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER				3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER				5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		

2 Specifications

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Technical specifications					EBLA09DV3		EBLA11DV3		EBLA14DV3	
Dimensions	Unit	Height	mm			870				
		Width	mm			1,380				
		Depth	mm			460				
	Packed unit	Height	mm			1,053				
		Width	mm			1,520				
		Depth	mm			650				
Weight	Unit	kg			147					
	Packed unit	kg			164					
Packing	Material				PE wrapping foil / Carton / Wood (pallet)					
	Weight	kg			17					
Heat exchanger	Length	mm			1,136 /1,166 /1,195					
	Rows	Quantity			3					
	Fin pitch	mm			1.4					
	Passes	Quantity			14					
	Face area	m²			0.950 /0.970 /1.00					
	Stages	Quantity			38					
	Empty tubeplate hole	Quantity			0					
	Tube type				7.0 Hi-XD					
	Fin	Type				WF fin				
		Treatment				Anti-corrosion treatment				
	Fan	Type				Propeller fan				
		Quantity				1				
Discharge direction					Horizontal					
Air flow rate		Heating	High	m³/min	48.0	55.8		70.4		
		Cooling	High	m³/min	63.1	70.4		85.0		
Fan motor	Quantity				1					
	Model				Brushless DC motor					
Fan motor	Speed	Steps				8				
		Heating	Nom.	rpm	400	450		550		
		Cooling	Nom.	rpm	500	550		650		
	Output	W			230					
	Drive				Direct drive					
Compressor	Quantity				1					
	Model				2Y350BPAX1P#C					
	Type				Hermetically sealed swing compressor					
PED	Category				Category II					
	Most critical part	Name				Accumulator				
	P _s *V	Bar*l			159					
Operation range	Heating	Ambient	Min.	°CDB	-25					
			Max.	°CDB	25 (6)					
		Water side	Min.	°C	9 (6)					
			Max.	°C	60 (6)					
	Cooling	Ambient	Min.	°CDB	10					
			Max.	°CDB	43					
		Water side	Min.	°C	5					
			Max.	°C	22					
	Domestic hot water	Ambient	Min.	°CDB	-25					
			Max.	°CDB	35					
		Water side	Min.	°C	25					
			Max.	°C	55 (6)					
Refrigerant	Type				R-32					
	GWP				675.0					
	Charge	kg			3.80					
	Control				Expansion valve					
	Circuits	Quantity				1				
Refrigerant oil	Type				FW68DA					
	Charged volume	l			1.35					
Defrost method					Reversed cycle					
Defrost control					Sensor for outdoor heat exchanger temperature					
Capacity control	Method				Inverter controlled					
Safety devices	Item	01				High pressure switch				
		02				Low pressure switch				
		03				Fan driver overload protector				
		04				Fuse				
Safety devices	Item	05				Compressor motor thermal protector				
Pump	Quantity				1					
	Nr of speeds				PWM					
	Nominal ESP unit	Heating	kPa			106.5	102.9		97.6	
		Cooling	kPa			106.6	99.2		94.1	
	Power input	W			180					

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Technical specifications					EBLA09DV3	EBLA11DV3	EBLA14DV3
Water side Heat exchanger	Type					Plate heat exchanger	
	Quantity					1	
	Water volume	l				2.16	
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)
Expansion vessel	Insulation material					EPDM type	
	Heater	W				50.0	
	Volume	l				8	
	Max. water pressure	bar				4	
	Pre pressure	bar				1	
Water filter	Heater	W				65	
	Diameter perforations	mm				0.8	
	Material					Stainless steel	
Water circuit	Piping connections diameter	inch				G 1" (male)	
	Piping	inch				1-1/4"	
	Piping length	Max.	OU - Tank	m		10	
	Level difference	Max.		m		5	
	Safety valve	bar				3	
	Drain valve / fill valve					Yes	
	Shut off valve					Yes	
	Air purge valve					Yes (Manually)	
	Minimum water volume in the system	l				50 (7)	
	Heater	W				66.0	
General	Supplier/	Name and address				Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
	Manufacturer details	Name or trademark				Daikin Europe N.V.	
	Product description	Air-to-water heat pump				Yes	
		Brine-to-water heat pump				No	
		Heat pump combination heater				No	
		Low-temperature heat pump				No	
		Supplementary heater integrated				No	
		Water-to-water heat pump				No	
	LW(A) Sound power level (according to EN14825)	dB(A)				62.0	
	Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825	
Space heating general	Air to water unit	Rated airflow (outdoor)				2,880	3,350
	Other	Capacity control				Inverter	
		Pck (Crankcase heater mode)				kW	
		Poff (Off mode)				kW	
		Psb (Standby mode)				kW	
		Pto (Thermostat off)				kW	

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Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	5,404	6,134	6,651
			ηs (Seasonal space heating efficiency) %	135	132	134
			Prated at -10°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	19	22	24
			SCOP	3.44	3.37	3.42
			Seasonal space heating eff. class	A++		
			A Condition Cdh (Degradation heating)	1.0		
			(-7°CDB) COPd	2.09	1.90	2.02
			B/-8°CWB) Pdh kW	8.5	9.3	9.4
			PERd %	83.6	76.0	80.8
			B Condition Cdh (Degradation heating)	1.0		
			(2°CDB) COPd	3.28	3.25	3.28
			B/11°CWB) Pdh kW	5.0	5.4	6.2
			PERd %	131.2	130.0	131.2
			C Condition Cdh (Degradation heating)	1.0		
			(7°CDB) COPd	4.80	4.81	4.88
			B/6°CWB) Pdh kW	4.4	4.4	4.4
			PERd %	192.0	192.4	195.2
			D Condition Cdh (Degradation heating)	1.0		
			(12°CDB) COPd	6.45	6.41	6.58
			B/11°CWB) Pdh kW	5.3	5.3	5.3
			PERd %	258.0	256.4	263.2
			Tol (temperature operating limit) COPd	1.70	1.64	1.70
			Pdh kW	6.8	7.6	7.8
			PERd %	68.0	65.6	68.0
			TOL °C	-10		
			WTOL °C	55		
			Rated heat output supplementary capacity Psup (at Tdesign -10°C) kW	2.2	2.4	3.2
			Tbiv (bivalent temperature) COPd	1.92	1.90	2.09

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Technical specifications					EBLA09DV3		EBLA11DV3		EBLA14DV3	
 Space heating	Average climate water outlet 55°C	Tbiv (bivalent temperature)	Pdh	kW	8.8		9.3		9.4	
			PERd	%	76.8		76.0		83.6	
			Tbiv	°C	-8		-7		-6	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376		8,196		8,808	
			ηs (Seasonal space heating efficiency)	%	117				120	
			Prated at -22°C	kW	9.0		10.0		11.0	
			Qhe Annual energy consumption (GCV)	Gj	27		30		32	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820		3,083		3,690	
			ηs (Seasonal space heating efficiency)	%	168		170		172	
			Prated at 2°C	kW	9.0		10.0		12.1	
			Qhe Annual energy consumption (GCV)	Gj	10		11		13	
	B Condition (2°CDB/-B/1°CWB)	Cdh (Degradation heating)			1.0					
			COPd		2.12	2.18		2.17		
			Pdh	kW	9.0	9.8				
			PERd	%	84.8	87.2		86.8		
	C Condition (7°CDB/-B/6°CWB)	Cdh (Degradation heating)			1.0					
			COPd		3.65	3.74		3.83		
			Pdh	kW	6.2		7.6			
			PERd	%	146.0	149.6		153.2		
	D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)			1.0					
			COPd		5.68		5.69			
			Pdh	kW	5.0					
			PERd	%	227.2		227.6			
	Tbiv (bivalent temperature)	COPd		2.12	2.18		2.40			
			Pdh	kW	9.0	9.8		11.0		
			PERd	%	84.8	87.2		96.0		
			Tbiv	°C	2		3			
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854		4,371		4,838	
			ηs (Seasonal space heating efficiency)	%	190		186		185	
			Prated at -10°C	kW	9.0		10.0		11.0	
			Qhe Annual energy consumption (GCV)	Gj	14		16		17	
			SCOP		4.82		4.73		4.70	
			Seasonal space heating eff. class		A+++					
			A Condition (-7°CDB/-B/-8°CWB)	COPd		3.07	3.03		2.95	
		Pdh	kW	8.5	9.2		10.1			
		PERd	%	122.8	121.2		118.0			
	B Condition (2°CDB/-B/1°CWB)	Cdh (Degradation heating)		1.0						

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Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Space heating	Average climate water outlet 35°C	B Condition (2°CΔ- B/1°CΔWB)	COPd	4.52	4.37	4.35
			Pdh kW	5.5		6.1
			PERd %	180.8	174.8	174.0
		C Condition (7°CΔ- B/6°CΔWB)	Cdh (Degradation heating)		1.0	
			COPd	6.78	6.74	6.70
			Pdh kW	4.7	4.6	
			PERd %	271.2	269.6	268.0
		D Condition (12°CΔ- B/11°CΔWB)	Cdh (Degradation heating)		1.0	
			COPd	8.75	8.54	8.65
			Pdh kW	5.5	5.4	
			PERd %	350.0	341.6	346.0
		Tol (tem- perature operating limit)	COPd	2.64	2.58	2.51
			Pdh kW	8.3	10.1	11.2
			PERd %	105.6	103.2	100.4
		Tbiv (bivalent tempera- ture)	TOL °C		-10	
			WTOL °C		35	
			COPd	2.75	2.58	2.51
		Rated heat output sup- plementary capacity	Pdh kW	8.7	10.1	11.2
			PERd %	110.0	103.2	100.4
			Tbiv °C	-9	-10	
			Psup (at Tdesign -10°C) kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption kWh	5,351	5,732	6,266
			ηs (Seasonal space heating efficiency) %	163	169	170
			Prated at -22°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	19	21	23
		General	Annual energy consumption kWh	1,938	2,128	2,333
			ηs (Seasonal space heating efficiency) %	243	248	249
			Prated at 2°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	7	8	
		B Condition (2°CΔ- B/1°CΔWB)	Cdh (Degradation heating)		1.0	
			COPd	3.36	3.30	3.45
			Pdh kW	9.0	10.3	10.8
		C Condition (7°CΔ- B/6°CΔWB)	PERd %	134.4	132.0	138.0
			Cdh (Degradation heating)		1.0	
			COPd	5.59	5.70	5.77
Space heating	Warm climate water outlet 35°C	D Condition (12°CΔ- B/11°CΔWB)	Pdh kW		5.2	
			PERd %	314.8		309.2
			COPd	3.36	3.30	3.45
		Tbiv (bivalent tempera- ture)	Pdh kW	9.0	10.3	10.8
			PERd %	134.4	132.0	138.0
			Tbiv °C		2	
		Class of temperature control			VI	
			Contribution to seasonal space heating efficiency %		4	

Electrical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Compressor	Starting method			Inverter driven		
Pump	Type			Grundfos UPMXL GEO 25-125 130 PWM		
Compressor component	Main power supply	Phase		1~		
	Voltage	Min.	V	230		
	range	Max.	%	-10		
			%	10		
Power supply	Name			V3		
	Phase			1~		
	Frequency			50		
	Voltage			230		
Voltage range	Min.			-10		
	Max.			10		

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Electrical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Current	Maximum running current	Heating	A	30.8		
	Recommended fuses		A	32		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm ²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm ²		
	A3P	Quantity		4		
		Type of wires		Select diameter and type according to national and local regulations		
	M2S	Quantity		2		
		Type of wires		Select diameter and type according to national and local regulations		
	M3S	Quantity		3		
		Type of wires		Select diameter and type according to national and local regulations		
	Quantity			2		
	Type of wires			Wire included in option EKFLSW1		
	For power supply	Quantity		2G		
		Remark		See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity		4		
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm ² (P1P2)		
	Preferential kWh rate	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
	Domestic hot water pump	Remark		Minimum 0.75 mm ²		
	Cable requirements	Cooling/ Heating output	A	3		

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA16DV37
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Cooling capacity	Nom.	kW		14.0 (3) / 15.3 (4)
Power input	Cooling	kW		4.58 (3) / 3.24 (4)
	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		147
	Packed unit	kg		164
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17

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Technical specifications					EBLA16DV37
Heat exchanger	Length		mm		1,136 /1,166 /1,195
	Rows	Quantity		3	
	Fin pitch		mm		1.4
	Passes	Quantity		14	
	Face area		m²		0.950 /0.970 /1.00
	Stages	Quantity		38	
	Empty tubeplate hole	Quantity		0	
	Tube type		7.0 Hi-XD		
	Fin	Type	WF fin		
	Treatment		Anti-corrosion treatment		
Fan	Type		Propeller fan		
	Quantity		1		
	Discharge direction		Horizontal		
	Air flow rate	Heating	High	m³/min	85.0
	Cooling	High	m³/min	85.0	
Fan motor	Quantity		1		
	Model		Brushless DC motor		
Fan motor	Speed	Steps	8		
		Heating	Nom.	rpm	650
		Cooling	Nom.	rpm	650
	Output			W	230
	Drive	Direct drive			
	Compressor	Quantity		1	
Model		2Y350BPAX1P#C			
Type		Hermetically sealed swing compressor			
PED	Category		Category II		
	Most critical part	Name	Accumulator		
		Ps*V	Bar*l		
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	25 (6)
		Water side	Min.	°C	9 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
		Water side	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (6)
Refrigerant	Type	R-32			
	GWP	675.0			
	Charge	kg		3.80	
	Control	Expansion valve			
	Circuits	Quantity	1		
Refrigerant oil	Type	FW68DA			
	Charged volume	l		1.35	
Defrost method	Reversed cycle				
Defrost control	Sensor for outdoor heat exchanger temperature				
Capacity control	Method	Inverter controlled			
Safety devices	Item	01	High pressure switch		
		02	Low pressure switch		
		03	Fan driver overload protector		
		04	Fuse		
Safety devices	Item	05	Compressor motor thermal protector		
Pump	Quantity		1		
	Nr of speeds		PWM		
	Nominal ESP unit	Heating	kPa	76.7	
		Cooling	kPa	88.4	
	Power input		W		
	180				
Water side Heat exchanger	Type		Plate heat exchanger		
	Quantity		1		
	Water volume		l		
		2.16			
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)
		Cooling	Nom.	l/min	40.2 (3) / 43.9 (4)
	Insulation material		EPDM type		
	Heater	W			
	50.0				

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Technical specifications				EBLA16DV37
Expansion vessel	Volume	l		8
	Max. water pressure	bar		4
	Pre pressure	bar		1
	Heater	W		65
Water filter	Diameter perforations	mm		0.8
	Material			Stainless steel
Water circuit	Piping connections diameter	inch		G 1" (male)
	Piping	inch		1-1/4"
	Piping Max. length	OU - Tank m		10
	Level difference	Max. m		5
	Safety valve	bar		3
	Drain valve / fill valve			Yes
	Shut off valve			Yes
	Air purge valve			Yes (Manually)
	Minimum water volume in the system	l		50 (7)
	Heater	W		66.0
General	Supplier/ Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
		Name or trademark		Daikin Europe N.V.
	Product description	Air-to-water heat pump		Yes
		Brine-to-water heat pump		No
		Heat pump combination heater		No
		Low-temperature heat pump		No
		Supplementary heater integrated		No
		Water-to-water heat pump		No
	LW(A) Sound power level (according to EN14825)	dB(A)		62.0
	Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	5,100
	Other	Capacity control		Inverter
		Pck (Crankcase heater mode)	kW	0.000
		Poff (Off mode)	kW	0.023
		Psb (Standby mode)	kW	0.023
		Pto (Thermostat off)	kW	0.023

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Technical specifications			EBLA16DV37	
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,359
			ηs (Seasonal space heating efficiency) %	132
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	26
			SCOP	3.37
			Seasonal space heating eff. class	A++
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating) COPd	1.0 1.95
			Pdh kW	9.4
			PERd %	78.0
		B Condition (2°CDB/11°CWB)	Cdh (Degradation heating) COPd	1.0 3.27
			Pdh kW	6.9
			PERd %	130.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd	1.0 4.93
			Pdh kW	4.4
			PERd %	197.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd	1.0 6.60
			Pdh kW	5.3
			PERd %	264.0
		Tol (temperature operating limit)	COPd	1.67
			Pdh kW	8.0
			PERd %	66.8
			TOL °C	-10
			WTOL °C	55
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	4.1
		Tbiv (bivalent temperature)	COPd	2.13

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Technical specifications					EBLA16DV37
Space heating	Average climate water outlet 55°C	Tbiv (bivalent temperature)	Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,599
			ηs (Seasonal space heating efficiency)	%	120
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	35
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,418
			ηs (Seasonal space heating efficiency)	%	168
			Prated at 2°C	kW	14.1
			Qhe Annual energy consumption (GCV)	Gj	16
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd		1.0
			Pdh	kW	2.17
			PERd	%	9.8
					86.8
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0
			Pdh	kW	3.73
			PERd	%	9.1
					149.2
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0
			Pdh	kW	5.69
			PERd	%	5.0
					227.6
	Tbiv (bivalent temperature)	COPd	Pdh	kW	2.51
			PERd	%	12.1
			Tbiv	°C	100.4
					4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,281
			ηs (Seasonal space heating efficiency)	%	185
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.69
			Seasonal space heating eff. class		A+++
	A Condition (-7°CDB/-8°CWB)	COPd	Pdh	kW	2.87
			PERd	%	11.2
					114.8
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0

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Technical specifications					EBLA16DV37	
 Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	COPd		4.33	
			Pdh	kW	6.7	
			PERd	%	173.2	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
	COPd			6.83		
	Pdh		kW	4.7		
	PERd	%	273.2			
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		8.82	
	Pdh		kW	5.5		
	PERd	%	352.8			
		Tol (temperature operating limit)	COPd		2.48	
			Pdh	kW	11.8	
	PERd		%	99.2		
	TOL		°C	-10		
	WTOL	°C	35			
		Tbiv (bivalent temperature)	COPd		2.48	
			Pdh	kW	11.8	
	PERd		%	99.2		
	Tbiv		°C	-10		
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)		kW	0.0	
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
				ηs (Seasonal space heating efficiency)	%	160
				Prated at -22°C	kW	12.0
	Qhe Annual energy consumption (GCV)			Gj	26	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573	
			ηs (Seasonal space heating efficiency)	%	246	
			Prated at 2°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	9	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
		COPd		3.30		
		Pdh	kW	11.9		
		PERd	%	132.0		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
		COPd		5.64		
		Pdh	kW	8.1		
		PERd	%	225.6		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
		COPd		7.73		
		Pdh	kW	5.2		
PERd		%	309.2			
Tbiv (bivalent temperature)	COPd		3.30			
	Pdh	kW	11.9			
	PERd	%	132.0			
	Tbiv	°C	2			
Control systems	Class of temperature control		VI			
	Contribution to seasonal space heating efficiency		%	4		

Electrical specifications				EBLA16DV37
Compressor	Starting method			Inverter driven
Pump	Type			Grundfos UPMXL GEO 25-125 130 PWM
Compressor component	Main power supply	Phase		1~
		Voltage	V	230
		Min.	%	-10
		Max.	%	10
Power supply	Name			V3
	Phase			1~
	Frequency			50
	Voltage			230
Voltage range	Min.			-10
	Max.			10

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Electrical specifications				EBLA16DV37
Current	Maximum running current	Heating	A	30.8
	Recommended fuses		A	32
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		2G
Wiring connections		Remark		See installation manual outdoor unit
	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
		Type of wires		0,75 ~1,25 mm ² (P1P2)
	Preferential kWh rate	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
	Domestic hot water pump	Remark		Minimum 0.75 mm ²
	Cable requirements	Cooling/ Heating output	Maximum running current	A
				3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Cooling capacity	Nom.	kW		9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)
Heater capacity	Step 1	kW			3	
Power input	Cooling	kW		2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER				3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER				5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour				Silver	
	Material				Polyester painted galvanised steel plate	
Dimensions	Unit	Height	mm		870	
		Width	mm		1,380	
		Depth	mm		460	
	Packed unit	Height	mm		1,053	
		Width	mm		1,520	
		Depth	mm		650	
Weight	Unit	kg			149	
	Packed unit	kg			166	
Packing	Material				PE wrapping foil / Carton / Wood (pallet)	
	Weight	kg			17	

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Technical specifications					EBLA09D3V3		EBLA11D3V3		EBLA14D3V3	
Heat exchanger	Length		mm		1,136 /1,166 /1,195					
	Rows	Quantity		3						
	Fin pitch		mm		1.4					
	Passes	Quantity		14						
	Face area		m²		0.950 /0.970 /1.00					
	Stages	Quantity		38						
	Empty tubeplate hole	Quantity		0						
	Tube type		7.0 Hi-XD							
	Fin	Type	Treatment		WF fin Anti-corrosion treatment					
Fan	Type		Propeller fan							
	Quantity		1							
	Discharge direction		Horizontal							
	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4			
	Cooling	High	m³/min	63.1	70.4	85.0				
Fan motor	Quantity		1							
Fan motor	Model		Brushless DC motor							
	Speed	Steps		8						
		Heating	Nom.	rpm	400	450	550			
		Cooling	Nom.	rpm	500	550	650			
	Output		W		230					
	Drive		Direct drive							
Compressor	Quantity		1							
	Model		2Y350BPAX1P#C							
	Type		Hermetically sealed swing compressor							
PED	Category		Category II							
	Most critical part	Name		Accumulator						
		Ps*V	Bar*I		159					
Operation range	Heating	Ambient	Min.	°CDB	-25					
			Max.	°CDB	35					
		Water side	Min.	°C	15 (6)					
			Max.	°C	60 (6)					
	Cooling	Ambient	Min.	°CDB	10					
			Max.	°CDB	43					
		Water side	Min.	°C	5					
			Max.	°C	22					
	Domestic hot water	Ambient	Min.	°CDB	-25					
			Max.	°CDB	35					
		Water side	Min.	°C	25					
			Max.	°C	55 (6)					
Refrigerant	Type		R-32							
	GWP		675.0							
	Charge		kg		3.80					
	Control		Expansion valve							
	Circuits	Quantity		1						
Refrigerant oil	Type		FW68DA							
	Charged volume		l		1.35					
Defrost method					Reversed cycle					
Defrost control					Sensor for outdoor heat exchanger temperature					
Capacity control					Method		Inverter controlled			
Safety devices	Item	01	High pressure switch							
		02	Low pressure switch							
		03	Fan driver overload protector							
Safety devices	Item	04	Fuse							
		05	Compressor motor thermal protector							
Pump	Quantity		1							
	Nr of speeds		PWM							
	Nominal ESP unit	Heating	kPa		106.9	102.7	96.5			
		Cooling	kPa		107.0	98.4	92.3			
	Power input		W		180					
Water side Heat exchanger	Type		Plate heat exchanger							
	Quantity		1							
	Water volume		l		2.16					
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)			
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)			
	Insulation material		EPDM type							
	Heater		W		50.0					

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Technical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Expansion vessel	Volume		l		8			
	Max. water pressure		bar		4			
	Pre pressure		bar		1			
	Heater		W		65			
Water filter	Diameter perforations		mm		0.8			
	Material				Stainless steel			
Water circuit	Piping connections diameter		inch		G 1" (male)			
	Piping		inch		1-1/4"			
	Piping	Max.	OU - Tank	m	10			
	Level	Max.		m	5			
	difference							
	Safety valve		bar		3			
	Drain valve / fill valve				Yes			
	Shut off valve				Yes			
	Air purge valve				Yes			
	Minimum water volume in the system		l		20 (7)			
	Heater		W		66.0			
	General	Supplier/ Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
		Name or trademark		Daikin Europe N.V.				
Product description		Air-to-water heat pump		Yes				
		Brine-to-water heat pump		No				
		Heat pump combination heater		No				
		Low-temperature heat pump		No				
	Supplementary heater integrated		Yes					
General	Product description	Water-to-water heat pump		No				
LW(A) Sound power level (according to EN14825)				dB(A)	62.0			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	2,880	3,350	4,220		
		Other	Capacity control	Inverter				
		Pck (Crankcase heater mode)	kW	0.000				
		Poff (Off mode)	kW	0.023				
		Psb (Standby mode)	kW	0.023				
		Pto (Thermostat off)	kW	0.023				
	Integrated supplementary heater	Type of energy input		Electrical				
	Space heating	 Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651
ηs (Seasonal space heating efficiency)				%	135	132	134	
Prated at -10°C				kW	9.0	10.0	11.0	
Qhe Annual energy consumption (GCV)				GJ	19	22	24	
SCOP					3.44	3.37	3.42	
Seasonal space heating eff. class					A++			
A Condition (-7°CDB/-8°CWB)			Cdh (Degradation heating)		1.0			
			COPd		2.09	1.90	2.02	
			Pdh	kW	8.5	9.3	9.4	
B Condition (2°CDB/1°CWB)			PERd	%	83.6	76.0	80.8	
			Cdh (Degradation heating)		1.0			
			COPd		3.28	3.25	3.28	
C Condition (7°CDB/6°CWB)			Pdh	kW	5.0	5.4	6.2	
			PERd	%	131.2	130.0	131.2	
			Cdh (Degradation heating)		1.0			
D Condition (12°CDB/11°CWB)			COPd		4.80	4.81	4.88	
			Pdh	kW		4.4		
			PERd	%	192.0	192.4	195.2	
Tol (temperature operating limit)			Cdh (Degradation heating)		1.0			
			COPd		6.45	6.41	6.58	
			Pdh	kW		5.3		
			PERd	%	258.0	256.4	263.2	
			COPd		1.70	1.64	1.70	
			Pdh	kW	6.8	7.6	7.8	
			PERd	%	68.0	65.6	68.0	
			TOL	°C	-10			
			WTOL	°C	55			

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	2.2	2.4	3.2	
		Tbiv	COPd	1.92	1.90	2.09	
(bivalent temperature)		Pdh kW	8.8	9.3	9.4		
		PERd %	76.8	76.0	83.6		
		Tbiv °C	-8	-7	-6		
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376	8,196	8,808	
		ηs (Seasonal space heating efficiency)	%	117		120	
		Prated at -22°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	27	30	32	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690
ηs (Seasonal space heating efficiency)			%	168	170	172	
Prated at 2°C			kW	9.0	10.0	12.1	
Qhe Annual energy consumption (GCV)			Gj	10	11	13	
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0			
		COPd		2.12	2.18	2.17	
		Pdh kW		9.0	9.8		
PERd %			84.8	87.2	86.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
Pdh kW				6.2		7.6	
PERd %			146.0	149.6	153.2		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
Pdh kW				5.0			
PERd %		227.2		227.6			
	Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40	
		Pdh kW		9.0	9.8	11.0	
PERd %			84.8	87.2	96.0		
Average climate water outlet 35°C	General	Tbiv °C		2		3	
		Annual energy consumption	kWh	3,854	4,371	4,838	
		ηs (Seasonal space heating efficiency)	%	190	186	185	
		Prated at -10°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	14	16	17	
		SCOP		4.82	4.73	4.70	
	Seasonal space heating eff. class		A++				
A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95		
	Pdh kW		8.5	9.2	10.1		

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3		
 Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	122.8	121.2	118.0		
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1.0			
			COPd	4.52	4.37	4.35			
			Pdh	kW	5.5	6.1			
			PERd	%	180.8	174.8	174.0		
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0			
			COPd	6.78	6.74	6.70			
			Pdh	kW	4.6				
			PERd	%	271.2	269.6	268.0		
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0			
			COPd	8.75	8.54	8.65			
			Pdh	kW	5.4				
			PERd	%	350.0	341.6	346.0		
		Tol (temperature operating limit)	COPd	2.64	2.58	2.51			
	Pdh		kW	10.1	11.2				
	PERd		%	103.2	100.4				
	TOL		°C	-10					
	Cold climate water outlet 35°C	General	WTOL	°C	35				
			Tbiv	COPd	2.75	2.58	2.51		
			Pdh	kW	8.7	10.1	11.2		
			PERd	%	110.0	103.2	100.4		
		Rated heat output supplementary capacity	Tbiv	°C	-9	-10			
			Psup (at Tdesign -10°C)	kW	0.7	0.0			
			General	Annual energy consumption	kWh	5,351	5,732	6,266	
				ηs (Seasonal space heating efficiency)	%	163	169	170	
		Prated at -22°C		kW	9.0	10.0	11.0		
		Qhe Annual energy consumption (GCV)		Gj	19	21	23		
		Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333	
				ηs (Seasonal space heating efficiency)	%	243	248	249	
				Prated at 2°C	kW	9.0	10.0	11.0	
Qhe Annual energy consumption (GCV)				Gj	7	8			
B Condition (2°CDB- B/1°CWB)			Cdh (Degradation heating)			1.0			
			COPd	3.36	3.30	3.45			
	Pdh		kW	9.0	10.3	10.8			
	PERd		%	134.4	132.0	138.0			
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0					
	COPd		5.59	5.70	5.77				
	Pdh		kW	5.9	6.7	7.4			
	PERd		%	223.6	228.0	230.8			
Space heating	Warm climate water outlet 35°C		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0		
				COPd	7.87	7.73			
				Pdh	kW	5.2			
				PERd	%	314.8	309.2		
		Tbiv (bivalent temperature)	COPd	3.36	3.30	3.45			
			Pdh	kW	9.0	10.3	10.8		
			PERd	%	134.4	132.0	138.0		
			Tbiv	°C	2				
Control systems	Class of temperature control				VI				
	Contribution to seasonal space heating efficiency				4				
Electrical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3		
Compressor	Starting method				Inverter driven				
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM				
Compressor component	Main power supply	Phase	Voltage	V	1~				
					230				
					-10				
					10				

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Electrical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Hydraulic component	Back-up heater current	Type			3V3	
		Power	Phase		1~	
		supply	Frequency	Hz	50	
	Running current	Back-up heater	Voltage	V	230	
			A		13.0	
	Voltage range	Min.	%		-10	
		Max.	%		10	
Power supply	Wiring connections		Type of wires	Select diameter and type according to national and local regulations		
	Name			V3		
	Phase			1~		
Voltage range	Frequency		Hz	50		
	Voltage		V	230		
	Min.		%	-10		
Current	Max.		%	10		
	Maximum running current		A	30.8		
	Recommended fuses		A	32		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm ²		
	RST	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm ²		
	A3P	Quantity		4		
		Type of wires		Select diameter and type according to national and local regulations		
	M2S	Quantity		2		
		Type of wires		Select diameter and type according to national and local regulations		
Wiring connections	M3S	Quantity		3		
		Type of wires		Select diameter and type according to national and local regulations		
	Quantity			2		
	Type of wires			Wire included in option EKFLSW1		
	For power supply	Quantity		2G		
		Remark		See installation manual outdoor unit		
	For connection with user interface	Quantity		4		
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)		
	Preferential kWh rate power supply	Type of wires		0,75 ~1,25 mm ² (P1P2)		
		Quantity		Power: 2		
Cable requirements	Domestic hot water pump	Remark		Power 6.3A		
		Quantity		3		
	Minimum 0.75 mm ²					
Cable requirements	Cooling/ Heating output	Maximum running current	A	3		

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EBLA16D3V37
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Cooling capacity	Nom.	kW		14.0 (3) / 15.3 (4)
Heater capacity	Step1	kW		3
Power input	Cooling	kW		4.58 (3) / 3.24 (4)
	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate

2 Specifications

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Technical specifications					EBLA16D3V37											
Dimensions	Unit	Height			mm					870						
		Width			mm					1,380						
		Depth			mm					460						
	Packed unit	Height			mm					1,053						
		Width			mm					1,520						
		Depth			mm					650						
Weight	Unit			kg					149							
	Packed unit			kg					166							
Packing	Material				PE wrapping foil / Carton / Wood (pallet)											
	Weight				kg					17						
Heat exchanger	Length				mm					1,136 /1,166 /1,195						
	Rows	Quantity									3					
	Fin pitch				mm					1.4						
	Passes	Quantity									14					
	Face area				m²					0.950 /0.970 /1.00						
	Stages	Quantity									38					
	Empty tubeplate hole	Quantity									0					
	Tube type									7.0 Hi-XD						
	Fin	Type									WF fin					
	Treatment									Anti-corrosion treatment						
	Fan	Type									Propeller fan					
Quantity									1							
Discharge direction									Horizontal							
Air flow rate		Heating	High	m³/min							85.0					
		Cooling	High	m³/min							85.0					
Fan motor	Quantity									1						
Fan motor	Model									Brushless DC motor						
	Speed	Steps								8						
		Heating	Nom.	rpm							650					
		Cooling	Nom.	rpm							650					
	Output				W					230						
	Drive									Direct drive						
Compressor	Quantity									1						
	Model									2Y350BPAX1P#C						
PED	Type									Hermetically sealed swing compressor						
	Category									Category II						
	Most critical part	Name								Accumulator						
Operation range	Heating	Ambient	Min.	°CDB							-25					
			Max.	°CDB							35					
		Water side	Min.	°C							15 (6)					
			Max.	°C							60 (6)					
		Cooling	Ambient	Min.	°CDB							10				
				Max.	°CDB							43				
	Water side		Min.	°C							5					
		Max.	°C							22						
	Domestic hot water	Ambient	Min.	°CDB							-25					
			Max.	°CDB							35					
		Water side	Min.	°C							25					
			Max.	°C							55 (6)					
	Refrigerant	Type									R-32					
		GWP									675.0					
		Charge				kg					3.80					
Control									Expansion valve							
Circuits		Quantity									1					
Refrigerant oil	Type									FW68DA						
	Charged volume				l					1.35						
Defrost method										Reversed cycle						
Defrost control										Sensor for outdoor heat exchanger temperature						
Capacity control	Method									Inverter controlled						
Safety devices	Item	01								High pressure switch						
		02								Low pressure switch						
		03								Fan driver overload protector						
Safety devices	Item	04								Fuse						
		05								Compressor motor thermal protector						
Pump	Quantity									1						
	Nr of speeds									PWM						
	Nominal ESP unit	Heating			kPa							71.4				
		Cooling			kPa							85.5				
	Power input				W					180						

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Technical specifications					EBLA16D3V37	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume				2.16	
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
		Cooling	Nom.	l/min	40.2 (3) / 43.9 (4)	
	Insulation material				EPDM type	
Expansion vessel	Heater				W	
	Volume				l	
	Max. water pressure				bar	
	Pre pressure				bar	
Water filter	Heater				W	
	Diameter perforations				mm	
Water circuit	Material				Stainless steel	
	Piping connections diameter				inch	
	Piping				inch	
	Piping length	Max.	OU - Tank	m	10	
	Level difference	Max.		m	5	
	Safety valve				bar	
	Drain valve / fill valve				Yes	
	Shut off valve				Yes	
	Air purge valve				Yes	
	Minimum water volume in the system				l	
General	Heater				W	
					66.0	
	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
		Name or trademark			Daikin Europe N.V.	
	Product description	Air-to-water heat pump			Yes	
		Brine-to-water heat pump			No	
		Heat pump combination heater			No	
		Low-temperature heat pump			No	
General	Product description	Supplementary heater integrated			Yes	
		Water-to-water heat pump			No	
LW(A) Sound power level (according to EN14825)				dB(A)		
				62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825	
Space heating general	Air to water unit	Rated airflow (outdoor)			m³/h	
					5,100	
	Other	Capacity control			Inverter	
		Pck (Crankcase heater mode)			kW	
		Poff (Off mode)			kW	
		Psb (Standby mode)			kW	
		Pto (Thermostat off)			kW	
Integrated supplementary heater	Type of energy input			Electrical		

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA16D3V37
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,359
			ηs (Seasonal space heating efficiency) %	132
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	26
			SCOP	3.37
			Seasonal space heating eff. class	A++
			A Condition Cdh (Degradation heating)	1.0
			(-7°CDB/-8°CWB) COPd	1.95
			Pdh kW	9.4
			PERd %	78.0
			B Condition Cdh (Degradation heating)	1.0
			(2°CDB/11°CWB) COPd	3.27
			Pdh kW	6.9
			PERd %	130.8
			C Condition Cdh (Degradation heating)	1.0
			(7°CDB/6°CWB) COPd	4.93
			Pdh kW	4.4
			PERd %	197.2
			D Condition Cdh (Degradation heating)	1.0
			(12°CDB/11°CWB) COPd	6.60
			Pdh kW	5.3
			PERd %	264.0
			Tol (temperature operating limit) COPd	1.67
			Pdh kW	8.0
			PERd %	66.8
			TOL °C	-10
			WTOL °C	55

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA16D3V37
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	4.1
			Tbiv (bivalent temperature) °C	2.13
			COPd	10.1
			Pdh kW	85.2
			PERd %	-5
	Cold climate water outlet 55°C	General	Annual energy consumption kWh	9,599
			ηs (Seasonal space heating efficiency) %	120
			Prated at -22°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	35
	Warm climate water outlet 55°C	General	Annual energy consumption kWh	4,418
			ηs (Seasonal space heating efficiency) %	168
			Prated at 2°C kW	14.1
			Qhe Annual energy consumption (GCV) GJ	16
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0
			COPd	2.17
			Pdh kW	9.8
			PERd %	86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0
			COPd	3.73
			Pdh kW	9.1
			PERd %	149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0
			COPd	5.69
			Pdh kW	5.0
			PERd %	227.6
		Tbiv (bivalent temperature) °C	COPd	2.51
			Pdh kW	12.1
			PERd %	100.4
			Tbiv °C	4
	Average climate water outlet 35°C	General	Annual energy consumption kWh	5,281
			ηs (Seasonal space heating efficiency) %	185
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	19
			SCOP	4.69
			Seasonal space heating eff. class	A+++
		A Condition (-7°CDB/-8°CWB)	COPd	2.87
			Pdh kW	11.2

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2 - 1 Specifications

Technical specifications					EBLA16D3V37
 Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	114.8
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
		WTOL	°C	35	
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh
	ηs (Seasonal space heating efficiency)			%	160
	Prated at -22°C			kW	12.0
	Qhe Annual energy consumption (GCV)			Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1.0
COPd				5.64	
Pdh			kW	8.1	
PERd			%	225.6	
 Space heating	Warm climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
	PERd	%	132.0		
		Tbiv	°C	2	
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency				%4
Electrical specifications					EBLA16D3V37
Compressor	Starting method				Inverter driven
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM
Compressor component	Main power supply	Phase	Voltage	V	1~
					230
					-10
					10

2 Specifications

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Electrical specifications					EBLA16D3V37					
Hydraulic component	Back-up heater current	Type			3V3					
		Power	Phase			1~				
		supply	Frequency	Hz			50			
			Voltage	V			230			
		Running current	Back-up heater	A			13.0			
	Voltage range	Min.	%				-10			
		Max.	%				10			
	Wiring connections	Type of wires					Select diameter and type according to national and local regulations			
Power supply	Name						V3			
	Phase						1~			
	Frequency		Hz				50			
	Voltage		V				230			
Voltage range	Min.		%				-10			
	Max.		%				10			
Current	Maximum running current	Heating	A				30.8			
		Recommended fuses		A				32		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity						3G		
		Type of wires						Minimum 2.5 mm ²		
	R5T	Quantity						2		
		Type of wires						Wire included in option EKHWS*		
	For connection with R6T	Quantity						2		
		Remark						Minimum 0.75 mm ²		
	A3P	Quantity						4		
		Type of wires						Select diameter and type according to national and local regulations		
	M2S	Quantity						2		
		Type of wires						Select diameter and type according to national and local regulations		
Wiring connections	M3S	Quantity						3		
		Type of wires						Select diameter and type according to national and local regulations		
	Quantity						2			
	Type of wires						Wire included in option EKFLSW1			
Wiring connections	For power supply	Quantity						2G		
		Remark						See installation manual outdoor unit		
	For connection with user interface	Quantity						4		
		Remark						0.75 mm ² till 1.25 mm ² (max length 200 m)		
	Preferential kWh rate power supply	Type of wires						0,75 ~1,25 mm ² (P1P2)		
		Quantity						Power: 2		
	Remark						Power 6.3A			
Domestic hot water pump	Quantity						3			
	Remark						Minimum 0.75 mm ²			
Cable requirements	Cooling/ Heating output	Maximum running current	A						3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)According to EN14825 |

(6)For more details, see operation range drawing |

(7)Depends on operation mode, refer to installation manual.

Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Power input	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		
Dimensions	Unit	Height	mm	870		
		Width	mm	1,380		
		Depth	mm	460		
	Packed unit	Height	mm	1,053		
		Width	mm	1,520		
		Depth	mm	650		

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Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1	
Weight	Unit	kg			147			
	Packed unit	kg			164			
Packing	Material	PE wrapping foil / Carton / Wood (pallet)						
	Weight	kg			17			
Heat exchanger	Length	mm			1,136 /1,166 /1,195			
	Rows	Quantity			3			
	Fin pitch	mm			1.4			
	Passes	Quantity			13			
	Face area	m²			0.950 /0.970 /1.00			
	Stages	Quantity			38			
	Empty tubeplate hole	Quantity			2			
	Tube type	7.0 Hi-XD						
	Fin	Type			WF fin			
		Treatment			Anti-corrosion treatment			
Fan	Type	Propeller fan						
	Quantity	1						
	Discharge direction	Horizontal						
Air flow rate	Heating	High	m³/min		48.0	55.8	70.4	
	Quantity	1						
Fan motor	Model	Brushless DC motor						
	Speed	Steps	8					
		Heating	Nom.	rpm	400	450	550	
	Output	W					234	
	Drive	Direct drive						
	Compressor	Quantity	1					
	Compressor	Model	2Y350BPAY1P#C					
	Type	Hermetically sealed swing compressor						
PED	Category	Category II						
	Most critical part	Name					Accumulator	
Operation range	Heating	Ambient	Min.	°CDB	-25			
			Max.	°CDB	25 (3)			
		Water side	Min.	°C	9 (3)			
			Max.	°C	60 (3)			
	Domestic hot water	Ambient	Min.	°CDB	-25			
			Max.	°CDB	35			
		Water side	Min.	°C	25			
			Max.	°C	55 (3)			
Refrigerant	Type	R-32						
	GWP	675.0						
	Charge	kg						
	Control	Expansion valve						
	Circuits	Quantity	1					
Refrigerant oil	Type	FW68DA						
	Charged volume	l						
Defrost method						Reversed cycle		
Defrost control						Sensor for outdoor heat exchanger temperature		
Capacity control	Method	Inverter controlled						
Safety devices	Item	01	High pressure switch					
		02	Low pressure switch					
		03	Fan driver overload protector					
		04	Fuse					
		05	Compressor motor thermal protector					
Pump	Quantity	1						
	Nr of speeds	PWM						
	Nominal ESP	Heating unit	kPa		106.5	102.9	97.6	
	Power input	W						
Water side Heat exchanger	Type	Plate heat exchanger						
	Quantity	1						
	Water volume	l						
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)	
	Insulation material	EPDM type						
Water side Heat exchanger	Heater	W						
Expansion vessel	Volume	l						
	Max. water pressure	bar						
	Pre pressure	bar						
	Heater	W						

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1	
Water filter	Diameter perforations		mm	0.8				
	Material			Stainless steel				
Water circuit	Piping connections diameter		inch	G 1" (male)				
	Piping		inch	1-1/4"				
	Piping	Max.	OU - Tank	m	10			
	length							
	Level	Max.		m	5			
	difference							
	Safety valve		bar	3				
	Drain valve / fill valve			Yes				
	Shut off valve			Yes				
	Air purge valve			Yes (Manually)				
General	Minimum water volume in the system		l	50 (4)				
	Heater		W	66.0				
	Supplier/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium				
	Manufactur- er details	Name or trademark		Daikin Europe N.V.				
	Product description	Air-to-water heat pump		Yes				
		Brine-to-water heat pump		No				
		Heat pump combination heater		No				
		Low-temperature heat pump		No				
		Supplementary heater integrated		No				
		Water-to-water heat pump		No				
LW(A) Sound power level (according to EN14825)			dB(A)	62.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825				
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	2,880	3,350	4,220	
		Other			Inverter			
		Capacity control						
		Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.023			
		Psb (Standby mode)		kW	0.023			
		Pto (Thermostat off)		kW	0.023			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488	6,218	6,735	
			ηs (Seasonal space heating efficiency)	%	133	130	132	
			Prated at -10°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	20	22	24	

2 Specifications

2 - 1 Specifications

Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Space heating	Average climate	General	SCOP	3.39	3.32	3.37
			Seasonal space heating eff. class	A++		
	water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0		
			COPd	2.09	1.90	2.02
			Pdh kW	8.5	9.3	9.4
			PERd %	83.6	76.0	80.8
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1.0		
			COPd	3.28	3.25	3.28
			Pdh kW	5.0	5.4	6.2
			PERd %	131.2	130.0	131.2
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)	1.0		
			COPd	4.80	4.81	4.88
			Pdh kW	4.4		
			PERd %	192.0	192.4	195.2
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)	1.0		
			COPd	6.45	6.41	6.58
			Pdh kW	5.3		
			PERd %	258.0	256.4	263.2
		Tol (temperature operating limit)	COPd	1.70	1.64	1.70
			Pdh kW	6.8	7.6	7.8
			PERd %	68.0	65.6	68.0
			TOL °C	-10		
			WTOL °C	55		
	Cold climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	2.2	2.4	3.2
			Tbiv COPd	1.92	1.90	2.09
			Pdh kW	8.8	9.3	9.4
			PERd %	76.8	76.0	83.6
		(bivalent temperature)	Tbiv °C	-8	-7	-6
			Annual energy consumption kWh	7,142	7,899	8,858
			ηs (Seasonal space heating efficiency) %	121	122	119
			Prated at -22°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	26	28	32
		Warm climate water outlet 55°C	Annual energy consumption kWh	2,921	3,184	3,792
			ηs (Seasonal space heating efficiency) %	162	165	168
			Prated at 2°C kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV) GJ	11		14
	B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0		

2 Specifications

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Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Space heating Warm climate water outlet 55°C Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	COPd		2.12	2.18	2.17
		Pdh	kW	9.0	9.8	
		PERd	%	84.8		86.8
		Cdh (Degradation heating)			1.0	
		COPd		3.65	3.74	3.83
		Pdh	kW		6.2	7.6
		PERd	%	146.0	149.6	153.2
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd			5.68	5.69
		Pdh	kW		5.0	
		PERd	%		227.2	227.6
	Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40
		Pdh	kW	9.0	9.8	11.0
		PERd	%	84.8	87.2	96.0
		Tbiv	°C		2	3
	General	Annual energy consumption	kWh	3,939	4,456	4,923
		ηs (Seasonal space heating efficiency)	%	186		182
		Prated at -10°C	kW	9.0	10.0	11.0
		Qhe Annual energy consumption (GCV)	Gj	14	16	18
		SCOP		4.72	4.64	4.62
		Seasonal space heating eff. class			A+ ++	
	A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95
		Pdh	kW	8.5	9.2	10.1
		PERd	%	122.8	121.2	118.0
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
		COPd		4.52	4.37	4.35
		Pdh	kW	4.5	5.5	6.1
		PERd	%	180.8	174.8	174.0
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
		COPd		6.78	6.74	6.70
		Pdh	kW	4.7		4.6
		PERd	%	271.2	269.6	268.0
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd		8.75	8.54	8.65
		Pdh	kW	5.5		5.4
		PERd	%	350.0	341.6	346.0
	Tol (temperature operating limit)	COPd		2.64	2.58	2.51

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1	
 Space heating	Average climate water outlet 35°C	Tol (temperature operating limit)	Pdh	kW	8.3	10.1	11.2	
			PERd	%	105.6	103.2	100.4	
		35°C	WTOL	°C	-10			
					35			
		(bivalent temperature)	Tbiv	COPd	2.75	2.58	2.51	
			Pdh	kW	8.7	10.1	11.2	
			PERd	%	110.0	103.2	100.4	
			Tbiv	°C	-9	-10		
		Rated heat output supplementary capacity		Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,031	5,783	6,317	
			ηs (Seasonal space heating efficiency)	%	173	168	169	
			Prated at -22°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	18	21	23	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435	
			ηs (Seasonal space heating efficiency)	%	233	237	238	
			Prated at 2°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	7	8	9	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		5.59	5.70	5.77	
			Pdh	kW	5.9	6.7	7.4	
			PERd	%	223.6	228.0	230.8	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		7.87		7.73	
			Pdh	kW	5.2			
			PERd	%	314.8		309.2	
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
			Tbiv	°C	2			
Control systems		Class of temperature control				VI		
		Contribution to seasonal space heating efficiency				%	4	
Electrical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1	
Compressor	Starting method				Inverter driven			
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM			
Compressor component	Main power supply	Phase	Voltage	V	3N~			
					400			
	Voltage range	Min.	Max.	%	-10			
					10			
Power supply	Name		W1					
	Phase		3~					
	Frequency		50					
	Voltage		400					
Voltage range	Min.		%					
	Max.		%					
Current	Maximum running current	Heating	A					
			14.0					
	Recommended fuses		A					
			16					

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Electrical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Wiring connections	Optional domestic hot water tank + Q2L	Quantity			3G	
		Type of wires			Minimum 2.5 mm ²	
	RST	Quantity			2	
		Type of wires			Wire included in option EKHWS*	
	For connection with R6T	Quantity			2	
		Remark			Minimum 0.75 mm ²	
	A3P	Quantity			4	
		Type of wires			Select diameter and type according to national and local regulations	
	M2S	Quantity			2	
		Type of wires			Select diameter and type according to national and local regulations	
	M3S	Quantity			3	
		Type of wires			Select diameter and type according to national and local regulations	
		Quantity			2	
		Type of wires			Wire included in option EKFLSW1	
Wiring connections	For power supply	Quantity			4G	
		Remark			See installation manual outdoor unit	
	For connection with user interface	Quantity			4	
		Remark			0.75 mm ² till 1.25 mm ² (max length 200 m)	
		Type of wires			0,75 ~1,25 mm ² (P1P2)	
	Preferential kWh rate	Quantity			Power: 2	
		Remark			Power 6.3A	
	Domestic hot water pump	Quantity			3	
	Wiring connections	Domestic hot water pump	Remark		Minimum 0.75 mm ²	
	Cable requirements	Cooling/ Heating output	Maximum running current	A	3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA16DW17
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Power input	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		147
	Packed unit	kg		164
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17
Heat exchanger	Length	mm		1,136 / 1,166 / 1,195
	Rows	Quantity		3
	Fin pitch	mm		1.4
	Passes	Quantity		13
	Face area	m ²		0.950 / 0.970 / 1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		2
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

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Technical specifications					EDLA16DW17	
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
	Air flow rate	Heating	High	m³/min	85.0	
Fan motor	Quantity				1	
	Model				Brushless DC motor	
	Speed	Steps			8	
		Heating	Nom.	rpm	650	
	Output				234	
	Drive				Direct drive	
Compressor	Quantity				1	
Compressor	Model				2Y350BPAY1P#C	
	Type				Hermetically sealed swing compressor	
PED	Category				Category II	
	Most critical part	Name	Ps*V		Accumulator	
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	25 (3)	
		Water side	Min.	°C	9 (3)	
			Max.	°C	60 (3)	
	Domestic hot water	Ambient	Min.	°CDB	-25	
			Max.	°CDB	35	
		Water side	Min.	°C	25	
			Max.	°C	55 (3)	
	Refrigerant	Type				R-32
		GWP				675.0
Charge		kg			3.80	
Control					Expansion valve	
Circuits		Quantity			1	
Refrigerant oil	Type				FW68DA	
	Charged volume	l			1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	
Safety devices	Item	01			High pressure switch	
		02			Low pressure switch	
		03			Fan driver overload protector	
		04			Fuse	
		05			Compressor motor thermal protector	
Pump	Quantity				1	
	Nr of speeds				PWM	
	Nominal ESP	Heating	kPa		76.7	
	unit					
	Power input	W			180	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume	l			2.16	
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
	Insulation material				EPDM type	
Water side Heat exchanger	Heater	W			50.0	
Expansion vessel	Volume				l	
	Max. water pressure				bar	
	Pre pressure				bar	
	Heater				W	
Water filter	Diameter perforations				mm	
	Material				Stainless steel	
Water circuit	Piping connections diameter				inch	
	Piping				inch	
	Piping length	Max.	OU - Tank	m	10	
	Level difference	Max.	m		5	
	Safety valve				bar	
	Drain valve / fill valve					
	Shut off valve					
	Air purge valve					
	Minimum water volume in the system				l	
	Heater				W	

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Technical specifications					EDLA16DW17		
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
	Manufacturer details	Name or trademark			Daikin Europe N.V.		
	Product description	Air-to-water heat pump	Yes				
		Brine-to-water heat pump	No				
		Heat pump combination heater	No				
		Low-temperature heat pump	No				
		Supplementary heater integrated	No				
		Water-to-water heat pump	No				
LW(A) Sound power level (according to EN14825)			dB(A)	62.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	5,100			
	Other	Capacity control	Inverter				
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.023			
		Psb (Standby mode)	kW	0.023			
		Pto (Thermostat off)	kW	0.023			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444		
			ηs (Seasonal space heating efficiency)	%	130		
			Prated at -10°C	kW	12.0		
			Qhe Annual energy consumption (GCV)	Gj	27		
 Space heating	Average climate water outlet 55°C	General	SCOP	3.33			
			Seasonal space heating eff. class	A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0			
			COPd	1.95			
			Pdh	kW	9.4		
			PERd	%	78.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0			
			COPd	3.27			
			Pdh	kW	6.9		
			PERd	%	130.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0			
			COPd	4.93			
			Pdh	kW	4.4		
			PERd	%	197.2		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0			
			COPd	6.60			
			Pdh	kW	5.3		
			PERd	%	264.0		
		Tol (temperature operating limit)	COPd	1.67			
			Pdh	kW	8.0		
			PERd	%	66.8		
			TOL	°C	-10		
		WTOL	°C	55			
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1		
		(bivalent temperature)	Tbiv	COPd	2.13		
			Pdh	kW	10.1		
			PERd	%	85.2		
			Tbiv	°C	-5		
		Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,561	
				ηs (Seasonal space heating efficiency)	%	121	
Prated at -22°C	kW			12.0			
Qhe Annual energy consumption (GCV)	Gj			34			
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519			
		ηs (Seasonal space heating efficiency)	%	164			
		Prated at 2°C	kW	14.1			
		Qhe Annual energy consumption (GCV)	Gj	16			
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					

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Technical specifications				EDLA16DW17
Space heating	Warm climate water outlet 55°C	B Condition (2°CΔ- B/1°CΔWB)	COPd	2.17
			Pdh kW	9.8
			PERd %	86.8
		C Condition (7°CΔ- B/6°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	3.73
			Pdh kW	9.1
			PERd %	149.2
		D Condition (12°CΔ- B/11°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	5.69
			Pdh kW	5.0
	Average climate water outlet 35°C	Tbiv (bivalent temperature)	PERd %	227.6
			Tbiv °C	4
			COPd	2.51
		General	Pdh kW	12.1
			PERd %	100.4
			Tbiv °C	4
		Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	182
			Prated at -10°C kW	12.0
		Qhe Annual energy consumption (GCV)	Gj	19
			SCOP	4.62
			Seasonal space heating eff. class	A+ ++
		A Condition (-7°CΔ- B/-8°CΔWB)	COPd	2.87
			Pdh kW	11.2
			PERd %	114.8
		B Condition (2°CΔ- B/1°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	4.33
			Pdh kW	6.7
			PERd %	173.2
		C Condition (7°CΔ- B/6°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	6.83
			Pdh kW	4.7
			PERd %	273.2
		D Condition (12°CΔ- B/11°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	8.82
			Pdh kW	5.5
			PERd %	352.8
		Tol (temperature operating limit)	COPd	2.48

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Technical specifications					EDLA16DW17	
 Space heating	Average climate water outlet 35°C	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW % °C °C	11.8 99.2 -10 35	
		Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	 kW % °C	 2.48 11.8 99.2 -10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0	
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296
				ηs (Seasonal space heating efficiency)	%	159
				Prated at -22°C	kW	12.0
				Qhe Annual energy consumption (GCV)	Gj	26
		Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,675
	ηs (Seasonal space heating efficiency)			%	237	
	Prated at 2°C			kW	12.0	
	Qhe Annual energy consumption (GCV)			Gj	10	
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0	
			COPd		3.30	
			Pdh PERd	kW %	11.9 132.0	
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)		1.0	
			COPd		5.64	
			Pdh PERd	kW %	8.1 225.6	
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)		1.0	
			COPd		7.73	
			Pdh PERd	kW %	5.2 309.2	
	Tbiv (bivalent temperature)		COPd		3.30	
			Pdh PERd	kW %	11.9 132.0	
		Tbiv	°C	2		
Control systems	Class of temperature control			VI		
	Contribution to seasonal space heating efficiency		%	4		
Electrical specifications					EDLA16DW17	
Compressor	Starting method				Inverter driven	
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM	
Compressor component	Main power supply	Phase			3N~	
		Voltage	V		400	
	Voltage range	Min.	%		-10	
		Max.	%		10	
Power supply	Name			W1		
	Phase			3~		
	Frequency		Hz	50		
	Voltage		V	400		
Voltage range	Min.		%	-10		
	Max.		%	10		
Current	Maximum running current	Heating	A	14.0		
	Recommended fuses		A	16		

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Electrical specifications				EDLA16DW17
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	RST	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity	Type of wires		2
				Wire included in option EKFLSW1
Wiring connections	For power supply	Quantity		4G
		Remark		See installation manual outdoor unit
	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
	Preferential kWh rate	Type of wires		0,75 ~1,25 mm ² (P1P2)
	Power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
	Wiring connections	Domestic hot water pump	Remark	Minimum 0.75 mm ²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Heater capacity	Step 1	kW			3	
Power input	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		
Dimensions	Unit	Height	mm	870		
		Width	mm	1,380		
		Depth	mm	460		
	Packed unit	Height	mm	1,053		
		Width	mm	1,520		
		Depth	mm	650		
Weight	Unit	kg		149		
	Packed unit	kg		166		
Packing	Material			PE wrapping foil / Carton / Wood (pallet)		
	Weight	kg		17		
Heat exchanger	Length		mm	1,136 / 1,166 / 1,195		
		Rows	Quantity	3		
	Fin pitch		mm	1.4		
		Passes	Quantity	13		
	Face area		m ²	0.950 / 0.970 / 1.00		
		Stages	Quantity	38		
	Empty tubeplate hole		Quantity	2		
		Tube type		7.0 Hi-XD		
	Fin	Type		WF fin		
		Treatment		Anti-corrosion treatment		

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Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	
Fan	Type				Propeller fan			
	Quantity				1			
	Discharge direction				Horizontal			
Fan motor	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4	
	Quantity				1			
	Model				Brushless DC motor			
	Speed	Steps			8			
		Heating	Nom.	rpm	400	450	550	
	Output				W	234		
Drive				Direct drive				
Compressor	Quantity				1			
	Model				2Y350BPAY1P#C			
	Type				Hermetically sealed swing compressor			
PED	Category				Category II			
	Most critical part	Name	Ps*V	Bar*l	Accumulator			
Operation range	Heating	Ambient	Min.	°CDB	159			
			Max.	°CDB	-25			
		Water side	Min.	°C	35			
			Max.	°C	15 (3)			
	Domestic hot water	Ambient	Min.	°CDB	60 (3)			
			Max.	°CDB	-25			
		Water side	Min.	°C	35			
			Max.	°C	25			
						55 (3)		
		Refrigerant	Type				R-32	
GWP				675,0				
Charge				kg				
Control				Expansion valve				
Circuits	Quantity			1				
Refrigerant oil	Type				FW68DA			
	Charged volume				l			
Defrost method				Reversed cycle				
Defrost control				Sensor for outdoor heat exchanger temperature				
Capacity control	Method				Inverter controlled			
Safety devices	Item	01		High pressure switch				
		02		Low pressure switch				
		03		Fan driver overload protector				
		04		Fuse				
		05		Compressor motor thermal protector				
Pump	Quantity				1			
	Nr of speeds				PWM			
	Nominal ESP	Heating		kPa	106.9	102.7	96.5	
	Power input				W			
Water side Heat exchanger	Type				Plate heat exchanger			
	Quantity				1			
	Water volume				l			
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)	
Water side Heat exchanger	Insulation material				EPDM type			
	Heater				W			
Expansion vessel	Volume				l			
	Max. water pressure				bar			
	Pre pressure				bar			
	Heater				W			
Water filter	Diameter perforations				mm			
	Material				Stainless steel			
Water circuit	Piping connections diameter				inch			
	Piping				inch			
	Piping length	Max.	OU - Tank	m	10			
	Level difference	Max.		m	5			
	Safety valve				bar			
	Drain valve / fill valve				Yes			
	Shut off valve				Yes			
	Air purge valve				Yes			
	Minimum water volume in the system				l			
	Heater				W			

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Technical specifications					EDLA09D3W1		EDLA11D3W1		EDLA14D3W1				
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium								
	Manufacturer details	Name or trademark			Daikin Europe N.V.								
	Product description	Air-to-water heat pump	Yes										
		Brine-to-water heat pump	No										
		Heat pump combination heater	No										
		Low-temperature heat pump	No										
		Supplementary heater integrated	Yes										
	Water-to-water heat pump	No											
LW(A) Sound power level (according to EN14825)				dB(A)		62.0							
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825								
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	2,880		3,350		4,220					
	Other	Capacity control			Inverter								
		Pck (Crankcase heater mode)	kW	0.000									
		Poff (Off mode)	kW	0.023									
		Psb (Standby mode)	kW	0.023									
		Pto (Thermostat off)	kW	0.023									
	Integrated supplementary heater	Type of energy input			Electrical								
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488		6,218		6,735				
			ηs (Seasonal space heating efficiency)	%	133		130		132				
Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	9.0		10.0		11.0				
			Qhe Annual energy consumption (GCV)	Gj	20		22		24				
			SCOP	3.39		3.32		3.37					
			Seasonal space heating eff. class			A++							
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0						
				COPd			2.09		1.90		2.02		
				Pdh	kW	8.5		9.3		9.4			
				PERd	%	83.6		76.0		80.8			
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0					
			COPd			3.28		3.25		3.28			
			Pdh		kW	5.0		5.4		6.2			
			PERd		%	131.2		130.0		131.2			
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0						
				COPd			4.80		4.81		4.88		
				Pdh	kW	4.4		4.4		4.8			
				PERd	%	192.0		192.4		195.2			
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0						
				COPd			6.45		6.41		6.58		
				Pdh	kW	5.3		5.3		6.2			
				PERd	%	258.0		256.4		263.2			
			Tol (temperature operating limit)	COPd			1.70		1.64		1.70		
				Pdh	kW	6.8		7.6		7.8			
				PERd	%	68.0		65.6		68.0			
				TOL	°C	-10							
			WTOL	°C	55								
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)			kW	2.2		2.4		3.2	
				Tbiv (bivalent temperature)	COPd			1.92		1.90		2.09	
					Pdh	kW	8.8		9.3		9.4		
					PERd	%	76.8		76.0		83.6		
					Tbiv	°C	-8		-7		-6		
			Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,142		7,899		8,858		
					ηs (Seasonal space heating efficiency)	%	121		122		119		
Prated at -22°C	kW	9.0			10.0		11.0						
Qhe Annual energy consumption (GCV)	Gj	26			28		32						
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,921		3,184		3,792					
		ηs (Seasonal space heating efficiency)	%	162		165		168					
		Prated at 2°C	kW	9.0		10.0		12.1					

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Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Space heating Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj		11		14
	B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd			2.12	2.18	2.17
		Pdh	kW		9.0		9.8
		PERd	%		84.8	87.2	86.8
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0	
		COPd			3.65	3.74	3.83
		Pdh	kW		6.2		7.6
		PERd	%		146.0	149.6	153.2
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd			5.68		5.69
		Pdh	kW			5.0	
		PERd	%		227.2		227.6
	Tbiv (bivalent temperature)	COPd			2.12	2.18	2.40
		Pdh	kW		9.0	9.8	11.0
		PERd	%		84.8	87.2	96.0
		Tbiv	°C		2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	4,456	4,923
			ηs (Seasonal space heating efficiency)	%	186		182
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	18
			SCOP		4.72	4.64	4.62
			Seasonal space heating eff. class			A+++	
	A Condition (-7°CDB/-8°CWB)	COPd			3.07	3.03	2.95
		Pdh	kW		8.5	9.2	10.1
		PERd	%		122.8	121.2	118.0
	B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd			4.52	4.37	4.35
		Pdh	kW		4.5	5.5	6.1
		PERd	%		180.8	174.8	174.0
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0	
		COPd			6.78	6.74	6.70
		Pdh	kW		4.7	4.6	
		PERd	%		271.2	269.6	268.0
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd			8.75	8.54	8.65
		Pdh	kW		5.5		5.4

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Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	
 Space heating	Average climate water outlet 35°C	D Condition (12°C CD-B/11°CWB)	PERd	%	350.0	341.6	346.0	
			Tol (temperature operating limit)	COPd	2.64	2.58	2.51	
				Pdh	kW	8.3	10.1	11.2
				PERd	%	105.6	103.2	100.4
				TOL	°C	-10		
		WTOL	°C	35				
		Tbiv (bivalent temperature)	COPd	2.75	2.58	2.51		
			Pdh	kW	8.7	10.1	11.2	
			PERd	%	110.0	103.2	100.4	
			Tbiv	°C	-9	-10		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0		
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,031	5,783	6,317	
			ηs (Seasonal space heating efficiency)	%	173	168	169	
			Prated at -22°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	18	21	23	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435	
			ηs (Seasonal space heating efficiency)	%	233	237	238	
			Prated at 2°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	7	8	9	
		B Condition (2°C CD-B/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
		C Condition (7°C CD-B/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		5.59	5.70	5.77	
			Pdh	kW	5.9	6.7	7.4	
			PERd	%	223.6	228.0	230.8	
		D Condition (12°C CD-B/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		7.87		7.73	
			Pdh	kW	5.2			
			PERd	%	314.8		309.2	
	Tbiv (bivalent temperature)	COPd	3.36	3.30	3.45			
		Pdh	kW	9.0	10.3	10.8		
		PERd	%	134.4	132.0	138.0		
		Tbiv	°C	2				
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency				4			
Electrical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	
Compressor	Starting method				Inverter driven			
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM			
Compressor component	Main power supply	Phase			3N~			
		Voltage		V	400			
		Min.		%	-10			
Hydraulic component	Voltage range	Max.		%	10			
		Back-up heater	Type		3V3			
			Power supply	Phase	1~			
	current	Frequency	Hz		50			
			Voltage		230			
		Running current	Back-up heater		A	13.0		
	Voltage range	Min.		%	-10			
		Max.		%	10			
	Power supply	Wiring connections	Type of wires		Select diameter and type according to national and local regulations			
			Name		W1			
Phase			3~					
Frequency			50					
Voltage range	Voltage	V		400				
		Min.		-10				
		Max		10				

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Electrical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Current	Maximum running current	Heating	A		14.0	
	Recommended fuses		A		16	
Wiring connections	Optional domestic hot water tank + Q2L	Quantity			3G	
		Type of wires			Minimum 2.5 mm ²	
	R5T	Quantity			2	
		Type of wires			Wire included in option EKHWS*	
	For connection with R6T	Quantity			2	
		Remark			Minimum 0.75 mm ²	
	A3P	Quantity			4	
		Type of wires			Select diameter and type according to national and local regulations	
	M2S	Quantity			2	
		Type of wires			Select diameter and type according to national and local regulations	
Wiring connections	M3S	Quantity			3	
		Type of wires			Select diameter and type according to national and local regulations	
	Quantity				2	
	Type of wires				Wire included in option EKFLSW1	
	For power supply	Quantity			4G	
		Remark			See installation manual outdoor unit	
	For connection with user interface	Quantity			4	
		Remark			0.75 mm ² till 1.25 mm ² (max length 200 m)	
		Type of wires			0,75 ~1,25 mm ² (P1P2)	
	Preferential kWh rate	Quantity			Power: 2	
Cable requirements	Domestic hot water pump	Quantity			3	
		Remark			Minimum 0.75 mm ²	
	Cooling/ Heating output	Maximum running current	A		3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |
(3)For more details, see operation range drawing |
(4)Depends on operation mode, refer to installation manual. |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
According to EN14825

Technical specifications				EDLA16D3W17
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Heater capacity	Step1	kW		3
Power input	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		149
	Packed unit	kg		166
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17
Heat exchanger	Length	mm		1,136 / 1,166 / 1,195
	Rows	Quantity		3
	Fin pitch	mm		1.4
	Passes	Quantity		13
	Face area	m ²		0.950 / 0.970 / 1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		2
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

2 Specifications

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Technical specifications					EDLA16D3W17	
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
	Air flow rate	Heating	High	m³/min	85.0	
Fan motor	Quantity				1	
	Model				Brushless DC motor	
	Speed	Steps			8	
		Heating	Nom.	rpm	650	
	Output				234	
	Drive				Direct drive	
Compressor	Quantity				1	
	Model				2Y350BPAY1P#C	
	Type				Hermetically sealed swing compressor	
PED	Category				Category II	
	Most critical part	Name			Accumulator	
Operation range	Heating	Ambient	Min.	°CDB	159	
			Max.	°CDB	-25	
		Water side	Min.	°C	35	
			Max.	°C	15 (3)	
	Domestic hot water	Ambient	Min.	°CDB	60 (3)	
			Max.	°CDB	-25	
		Water side	Min.	°C	35	
			Max.	°C	25	
						55 (3)
		Refrigerant	Type			
GWP				675.0		
Charge	kg			3.80		
Control				Expansion valve		
Circuits	Quantity		1			
Refrigerant oil	Type				FW68DA	
	Charged volume	l			1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	
Safety devices	Item	01			High pressure switch	
		02			Low pressure switch	
		03			Fan driver overload protector	
		04			Fuse	
		05			Compressor motor thermal protector	
Pump	Quantity				1	
	Nr of speeds				PWM	
	Nominal ESP	Heating unit	kPa		71.4	
	Power input				180	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume				2.16	
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
Water side Heat exchanger	Insulation material				EPDM type	
	Heater				50.0	
Expansion vessel	Volume				8	
	Max. water pressure				4	
	Pre pressure				1	
	Heater				65	
Water filter	Diameter perforations				0.8	
	Material				Stainless steel	
Water circuit	Piping connections diameter				G 1" (male)	
	Piping				1-1/4"	
	Piping length	Max.	OU - Tank	m	10	
	Level difference	Max.	m		5	
	Safety valve				3	
	Drain valve / fill valve				Yes	
	Shut off valve				Yes	
	Air purge valve				Yes	
	Minimum water volume in the system				20 (4)	
	Heater				66.0	

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Technical specifications					EDLA16D3W17				
General	Supplier/Manufacturer details	Name and address Name or trademark			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V.				
	Product description	Air-to-water heat pump			Yes				
		Brine-to-water heat pump			No				
		Heat pump combination heater			No				
		Low-temperature heat pump			No				
		Supplementary heater integrated			Yes				
		Water-to-water heat pump			No				
	LW(A) Sound power level (according to EN14825)			dB(A)	62.0				
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825				
Space heating general	Air to water unit	Rated airflow (outdoor)			m³/h	5,100			
		Other	Capacity control			Inverter			
	Pck (Crankcase heater mode)			kW	0.000				
	Poff (Off mode)			kW	0.023				
	Psb (Standby mode)			kW	0.023				
	Pto (Thermostat off)			kW	0.023				
	Integrated supplementary heater		Type of energy input			Electrical			
		Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444		
ηs (Seasonal space heating efficiency)	%				130				
Space heating	Average climate water outlet 55°C			General	Prated at -10°C	kW	12.0		
		Qhe Annual energy consumption (GCV)	Gj		27				
		SCOP			3.33				
		Seasonal space heating eff. class			A++				
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0			
			COPd			1.95			
			Pdh			kW	9.4		
			PERd			%	78.0		
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)			1.0			
			COPd			3.27			
			Pdh			kW	6.9		
			PERd			%	130.8		
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1.0			
			COPd			4.93			
			Pdh			kW	4.4		
			PERd			%	197.2		
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)			1.0			
			COPd			6.60			
			Pdh			kW	5.3		
			PERd			%	264.0		
		Tol (temperature operating limit)	COPd			1.67			
			Pdh			kW	8.0		
			PERd			%	66.8		
			TOL			°C	-10		
			WTOL			°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)			kW	4.1		
			Tbiv (bivalent temperature)		COPd			2.13	
					Pdh			kW	10.1
					PERd			%	85.2
					Tbiv			°C	-5
Cold climate water outlet 55°C	General		Annual energy consumption	kWh	9,561				
		ηs (Seasonal space heating efficiency)	%	121					
		Prated at -22°C	kW	12.0					
		Qhe Annual energy consumption (GCV)	Gj	34					
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519					
		ηs (Seasonal space heating efficiency)	%	164					
		Prated at 2°C	kW	14.1					

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Technical specifications					EDLA16D3W17
 Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj	16
			B Condition (2°C _{CD} - B/1°C _{WB})	Cdh (Degradation heating)	1.0
				COPd	2.17
				Pdh	kW
		PERd		%	86.8
		C Condition (7°C _{CD} - B/6°C _{WB})	Cdh (Degradation heating)	1.0	
			COPd	3.73	
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°C _{CD} - B/11°C _{WB})	Cdh (Degradation heating)	1.0	
			COPd	5.69	
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent tempera- ture)	COPd	2.51	
			Pdh	kW	12.1
			PERd	%	100.4
	Tbiv		°C	4	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	%	182
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.62
			Seasonal space heating eff. class		A+++
			A Condition (-7°C _{CD} - B/-8°C _{WB})	COPd	2.87
				Pdh	kW
		PERd		%	114.8
		B Condition (2°C _{CD} - B/1°C _{WB})	Cdh (Degradation heating)	1.0	
			COPd	4.33	
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°C _{CD} - B/6°C _{WB})	Cdh (Degradation heating)	1.0	
			COPd	6.83	
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°C _{CD} - B/11°C _{WB})	Cdh (Degradation heating)	1.0	
			COPd	8.82	
			Pdh	kW	5.5

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Technical specifications					EDLA16D3W17		
Space heating	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	PERd	%	352.8		
		Tol (temperature operating limit)	COPd			2.48	
			Pdh	kW		11.8	
			PERd	%		99.2	
			TOL	°C		-10	
			WTOL	°C		35	
		Tbiv (bivalent temperature)	COPd			2.48	
			Pdh	kW		11.8	
			PERd	%		99.2	
			Tbiv	°C		-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh		7,296	
			ηs (Seasonal space heating efficiency)	%		159	
			Prated at -22°C	kW		12.0	
			Qhe Annual energy consumption (GCV)	Gj		26	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh		2,675	
			ηs (Seasonal space heating efficiency)	%		237	
			Prated at 2°C	kW		12.0	
			Qhe Annual energy consumption (GCV)	Gj		10	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			3.30	
			Pdh	kW		11.9	
		PERd	%		132.0		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0
				COPd			5.64
		Pdh		kW		8.1	
		PERd	%		225.6		
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
				COPd			7.73
		Pdh		kW		5.2	
		PERd	%		309.2		
Tbiv (bivalent temperature)	COPd				3.30		
	Pdh		kW		11.9		
	PERd	%		132.0			
Tbiv	°C		2				
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency				4		
Electrical specifications					EDLA16D3W17		
Compressor	Starting method				Inverter driven		
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM		
Compressor component	Main power supply	Phase			3N~		
		Voltage	V		400		
		Min.	%		-10		
		Max.	%		10		
Hydraulic component	Back-up heater current	Type			3V3		
		Power supply	Phase		1~		
			Frequency	Hz	50		
			Voltage	V	230		
	Running current	Back-up heater	A		13.0		
	Voltage range	Min.	%		-10		
		Max.	%		10		
Wiring connections	Type of wires				Select diameter and type according to national and local regulations		
Power supply	Name				W1		
	Phase				3~		
	Frequency				50		
	Voltage				400		
Voltage range	Min.				-10		
	Max				10		

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Electrical specifications				EDLA16D3W17
Current	Maximum running current	Heating	A	14.0
	Recommended fuses		A	16
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
Wiring connections	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		4G
		Remark		See installation manual outdoor unit
	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
		Type of wires		0,75 ~1,25 mm ² (P1P2)
	Preferential kWh rate	Quantity		Power: 2
Cable requirements	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm ²
	Cooling/ Heating output	Maximum running current	A	3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Power input	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		
Dimensions	Unit	Height	mm	870		
		Width	mm	1,380		
		Depth	mm	460		
	Packed unit	Height	mm	1,053		
		Width	mm	1,520		
		Depth	mm	650		
Weight	Unit		kg	147		
	Packed unit		kg	164		
Packing	Material			PE wrapping foil / Carton / Wood (pallet)		
	Weight		kg	17		
Heat exchanger	Length		mm	1,136 / 1,166 / 1,195		
		Rows	Quantity	3		
	Fin pitch		mm	1.4		
		Passes	Quantity	14		
	Face area		m ²	0.950 / 0.970 / 1.00		
		Stages	Quantity	38		
	Empty tubeplate hole		Quantity	0		
		Tube type		7.0 Hi-XD		
	Fin	Type		WF fin		
		Treatment		Anti-corrosion treatment		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3	
Fan	Type				Propeller fan			
	Quantity				1			
	Discharge direction				Horizontal			
	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4	
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Speed	Steps			8			
		Heating	Nom.	rpm	400	450	550	
	Output				230			
	Drive				Direct drive			
Compressor	Quantity				1			
Compressor	Model				2Y350BPAX1P#C			
	Type				Hermetically sealed swing compressor			
PED	Category				Category II			
	Most critical part	Name			Accumulator			
		Ps*V	Bar*I		159			
Operation range	Heating	Ambient	Min.	°CDB	-25			
			Max.	°CDB	25 (3)			
		Water side	Min.	°C	9 (3)			
			Max.	°C	60 (3)			
	Domestic hot water	Ambient	Min.	°CDB	-25			
			Max.	°CDB	35			
		Water side	Min.	°C	25			
			Max.	°C	55 (3)			
	Refrigerant	Type				R-32		
		GWP				675.0		
Charge				kg				
Control				Expansion valve				
Circuits		Quantity			1			
Refrigerant oil	Type				FW68DA			
	Charged volume				l			
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Capacity control	Method				Inverter controlled			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			
		05			Compressor motor thermal protector			
Pump	Quantity				1			
	Nr of speeds				PWM			
	Nominal ESP	Heating		kPa	106.5	102.9	97.6	
	unit							
	Power input				W			
Water side Heat exchanger	Type				Plate heat exchanger			
	Quantity				1			
	Water volume				l			
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)	
	Insulation material				EPDM type			
Water side Heat exchanger	Heater				W			
Expansion vessel	Volume				l			
	Max. water pressure				bar			
	Pre pressure				bar			
	Heater				W			
Water filter	Diameter perforations				mm			
	Material				Stainless steel			
Water circuit	Piping connections diameter				inch			
	Piping				inch			
	Piping length	Max.	OU - Tank	m	10			
	Level difference	Max.		m	5			
	Safety valve				bar			
	Drain valve / fill valve				Yes			
	Shut off valve				Yes			
	Air purge valve				Yes (Manually)			
	Minimum water volume in the system				l			
	Heater				W			
					66.0			

2 Specifications

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Technical specifications					EDLA09DV3		EDLA11DV3		EDLA14DV3			
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium							
	Manufacturer details	Name or trademark			Daikin Europe N.V.							
	Product description	Air-to-water heat pump	Yes									
		Brine-to-water heat pump	No									
		Heat pump combination heater	No									
		Low-temperature heat pump	No									
		Supplementary heater integrated	No									
	Water-to-water heat pump	No										
LW(A) Sound power level (according to EN14825)				dB(A)		62.0						
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825							
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h		2,880		3,350		4,220			
	Other	Capacity control			Inverter							
		Pck (Crankcase heater mode)	kW		0.000							
		Poff (Off mode)	kW		0.023							
		Psb (Standby mode)	kW		0.023							
		Pto (Thermostat off)	kW		0.023							
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488		6,218		6,735			
			ηs (Seasonal space heating efficiency)	%	133		130		132			
			Prated at -10°C	kW	9.0		10.0		11.0			
			Qhe Annual energy consumption (GCV)	Gj	20		22		24			
 Space heating	Average climate water outlet 55°C	General	SCOP		3.39		3.32		3.37			
			Seasonal space heating eff. class	A++								
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0						
			COPd		2.09		1.90		2.02			
			Pdh	kW	8.5		9.3		9.4			
			PERd	%	83.6		76.0		80.8			
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0						
			COPd		3.28		3.25		3.28			
			Pdh	kW	5.0		5.4		6.2			
			PERd	%	131.2		130.0		131.2			
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0						
			COPd		4.80		4.81		4.88			
			Pdh	kW			4.4					
			PERd	%	192.0		192.4		195.2			
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0						
			COPd		6.45		6.41		6.58			
			Pdh	kW			5.3					
			PERd	%	258.0		256.4		263.2			
		Tol (temperature operating limit)	COPd		1.70		1.64		1.70			
			Pdh	kW	6.8		7.6		7.8			
			PERd	%	68.0		65.6		68.0			
			TOL	°C	-10							
		WTOL	°C	55								
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW			2.2		2.4		3.2	
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,427		8,247		8,858				
		ηs (Seasonal space heating efficiency)	%	117				119				
		Prated at -22°C	kW	9.0		10.0		11.0				
		Qhe Annual energy consumption (GCV)	Gj	27		30		32				
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,921		3,184		3,792			
			ηs (Seasonal space heating efficiency)	%	162		165		168			
			Prated at 2°C	kW	9.0		10.0		12.1			
			Qhe Annual energy consumption (GCV)	Gj	11				14			
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0								

2 Specifications

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Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Space heating Warm climate water outlet 55°C Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	COPd		2.12	2.18	2.17
		Pdh	kW	9.0	9.8	
		PERd	%	84.8		86.8
		Cdh (Degradation heating)			1.0	
		COPd		3.65	3.74	3.83
		Pdh	kW		6.2	7.6
		PERd	%	146.0	149.6	153.2
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd		5.68		5.69
		Pdh	kW		5.0	
		PERd	%	227.2		227.6
	Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40
		Pdh	kW	9.0	9.8	11.0
		PERd	%	84.8	87.2	96.0
		Tbiv	°C	2		3
	General	Annual energy consumption	kWh	3,939	4,456	4,923
		ηs (Seasonal space heating efficiency)	%	186	182	
		Prated at -10°C	kW	9.0	10.0	11.0
		Qhe Annual energy consumption (GCV)	Gj	14	16	18
		SCOP		4.72	4.64	4.62
		Seasonal space heating eff. class			A+ ++	
		A Condition (-7°CDB/-8°CWB)		3.07	3.03	2.95
	B Condition (2°CDB/1°CWB)	Pdh	kW	8.5	9.2	10.1
		PERd	%	122.8	121.2	118.0
		Cdh (Degradation heating)			1.0	
	C Condition (7°CDB/6°CWB)	COPd		4.52	4.37	4.35
		Pdh	kW	4.5	5.5	6.1
		PERd	%	180.8	174.8	174.0
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd		6.78	6.74	6.70
		Pdh	kW	4.7	4.6	
	Tol (temperature operating limit)	PERd	%	271.2	269.6	268.0
		Cdh (Degradation heating)			1.0	
		COPd		8.75	8.54	8.65
		Pdh	kW	5.5	5.4	
		PERd	%	350.0	341.6	346.0
		COPd		2.64	2.58	2.51

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3	
 Space heating	Average climate water outlet 35°C	Tol (temperature operating limit)	Pdh	kW	8.3	10.1	11.2	
			PERd	%	105.6	103.2	100.4	
		TOL	°C	-10				
			WTOL	°C	35			
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	
			Pdh	kW	8.7	10.1	11.2	
		PERd	%	110.0	103.2	100.4		
			Tbiv	°C	-9	-10		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0		
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,402	5,783	6,317	
			ηs (Seasonal space heating efficiency)	%	161	168	169	
			Prated at -22°C	kW	10.0			
			Qhe Annual energy consumption (GCV)	Gj	19	21	23	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435	
			ηs (Seasonal space heating efficiency)	%	233	237	238	
			Prated at 2°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	7	8	9	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		5.59	5.70	5.77	
			Pdh	kW	5.9	6.7	7.4	
			PERd	%	223.6	228.0	230.8	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		7.87			7.73
			Pdh	kW	5.2			
			PERd	%	314.8			309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
	Tbiv		°C	2				
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency				%	4		
Electrical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3	
Compressor	Starting method				Inverter driven			
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM			
Compressor component	Main power supply	Phase	Voltage	V	1~			
					230			
	Voltage range	Min.	Max.	%	-10			
					10			
Power supply	Name				V3			
	Phase				1~			
	Frequency				50			
	Voltage				230			
Voltage range	Min.				-10			
	Max.				10			
Current	Maximum running current	Heating			30.8			
			Recommended fuses		A 32			

2 Specifications

2 - 1 Specifications

Electrical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Wiring connections	Optional domestic hot water tank + Q2L	Quantity			3G	
		Type of wires			Minimum 2.5 mm ²	
	RST	Quantity			2	
		Type of wires			Wire included in option EKHWS*	
	For connection with R6T	Quantity			2	
		Remark			Minimum 0.75 mm ²	
	A3P	Quantity			4	
		Type of wires			Select diameter and type according to national and local regulations	
	M2S	Quantity			2	
		Type of wires			Select diameter and type according to national and local regulations	
	M3S	Quantity			3	
		Type of wires			Select diameter and type according to national and local regulations	
	Quantity				2	
		Type of wires			Wire included in option EKFLSW1	
	For power supply	Quantity			2G	
		Remark			See installation manual outdoor unit	
	For connection with user interface	Quantity			4	
		Remark			0.75 mm ² till 1.25 mm ² (max length 200 m)	
Wiring connections		Type of wires			0,75 ~1,25 mm ² (P1P2)	
	Preferential kWh rate	Quantity			Power: 2	
		Remark			Power 6.3A	
	Domestic hot water pump	Quantity			3	
	Wiring connections	Domestic hot water pump	Remark		Minimum 0.75 mm ²	
	Cable requirements	Cooling/ Heating output	Maximum running current	A	3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA16DV37
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Power input	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		147
	Packed unit	kg		164
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17
Heat exchanger	Length	mm		1,136 /1,166 /1,195
	Rows	Quantity		3
	Fin pitch	mm		1.4
	Passes	Quantity		14
	Face area	m ²		0.950 /0.970 /1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		0
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37	
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
	Air flow rate	Heating	High	m³/min	85.0	
Fan motor	Quantity				1	
	Model				Brushless DC motor	
	Speed	Steps			8	
		Heating	Nom.	rpm	650	
	Output				230	
	Drive				Direct drive	
Compressor	Quantity				1	
Compressor	Model				2Y350BPAX1P#C	
	Type				Hermetically sealed swing compressor	
PED	Category				Category II	
	Most critical part	Name	Ps*V	Bar*I	Accumulator	
Operation range	Heating	Ambient	Min.	°CDB	159	
			Max.	°CDB	-25	
		Water side	Min.	°C	25 (3)	
			Max.	°C	9 (3)	
	Domestic hot water	Ambient	Min.	°CDB	60 (3)	
			Max.	°CDB	-25	
		Water side	Min.	°C	35	
			Max.	°C	25	
						55 (3)
		Refrigerant	Type			
GWP				675.0		
Charge	kg			3.80		
Control				Expansion valve		
Circuits	Quantity				1	
Refrigerant oil	Type				FW68DA	
	Charged volume	l			1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	
Safety devices	Item	01			High pressure switch	
		02			Low pressure switch	
		03			Fan driver overload protector	
		04			Fuse	
		05			Compressor motor thermal protector	
Pump	Quantity				1	
	Nr of speeds				PWM	
	Nominal ESP	Heating	kPa		76.7	
	unit					
	Power input				W	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume				l	
	Water flow rate	Heating	Nom.	l/min	2.16	
					45.9 (1) / 45.9 (2)	
	Insulation material				EPDM type	
Water side Heat exchanger	Heater				W	
					50.0	
Expansion vessel	Volume				l	
	Max. water pressure				bar	
	Pre pressure				bar	
	Heater				W	
Water filter	Diameter perforations				mm	
					65	
					0.8	
	Material				Stainless steel	
Water circuit	Piping connections diameter				inch	
	Piping				G 1" (male)	
					1-1/4"	
	Piping length	Max.	OU - Tank	m	10	
	Level difference	Max.	m		5	
	Safety valve				bar	
	Drain valve / fill valve				3	
	Shut off valve				Yes	
	Air purge valve				Yes	
					Yes (Manually)	
	Minimum water volume in the system				l	
	Heater				W	
						50 (4)
					66.0	

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37		
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
	Manufacturer details	Name or trademark			Daikin Europe N.V.		
	Product description	Air-to-water heat pump	Yes				
		Brine-to-water heat pump	No				
		Heat pump combination heater	No				
		Low-temperature heat pump	No				
		Supplementary heater integrated	No				
	Water-to-water heat pump	No					
LW(A) Sound power level (according to EN14825)			dB(A)	62.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	5,100			
	Other	Capacity control	Inverter				
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.023			
		Psb (Standby mode)	kW	0.023			
		Pto (Thermostat off)	kW	0.023			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444		
			ηs (Seasonal space heating efficiency)	%	130		
			Prated at -10°C	kW	12.0		
			Qhe Annual energy consumption (GCV)	Gj	27		
 Space heating	Average climate water outlet 55°C	General	SCOP	3.33			
			Seasonal space heating eff. class	A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0			
			COPd	1.95			
			Pdh	kW	9.4		
			PERd	%	78.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0			
			COPd	3.27			
			Pdh	kW	6.9		
			PERd	%	130.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0			
			COPd	4.93			
			Pdh	kW	4.4		
			PERd	%	197.2		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0			
			COPd	6.60			
			Pdh	kW	5.3		
			PERd	%	264.0		
		Tol (temperature operating limit)	COPd	1.67			
			Pdh	kW	8.0		
			PERd	%	66.8		
			TOL	°C	-10		
		WTOL	°C	55			
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1		
		(bivalent temperature)	Tbiv	COPd	2.13		
			Pdh	kW	10.1		
			PERd	%	85.2		
			Tbiv	°C	-5		
		Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,650	
				ηs (Seasonal space heating efficiency)	%	120	
Prated at -22°C	kW			12.0			
Qhe Annual energy consumption (GCV)	Gj			35			
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519			
		ηs (Seasonal space heating efficiency)	%	164			
		Prated at 2°C	kW	14.1			
		Qhe Annual energy consumption (GCV)	Gj	16			
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					

2 Specifications

2 - 1 Specifications

Technical specifications				EDLA16DV37
Space heating	Warm climate water outlet 55°C	B Condition (2°CΔ- B/1°CΔWB)	COPd	2.17
			Pdh kW	9.8
			PERd %	86.8
		C Condition (7°CΔ- B/6°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	3.73
			Pdh kW	9.1
			PERd %	149.2
		D Condition (12°CΔ- B/11°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	5.69
			Pdh kW	5.0
	Average climate water outlet 35°C	Tbiv (bivalent temperature)	PERd %	227.6
			Tbiv °C	4
			COPd	2.51
		General	Pdh kW	12.1
			PERd %	100.4
			Tbiv °C	4
		Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	182
			Prated at -10°C kW	12.0
		Qhe Annual energy consumption (GCV)	Gj	19
			SCOP	4.62
			Seasonal space heating eff. class	A+ ++
		A Condition (-7°CΔ- B/-8°CΔWB)	COPd	2.87
			Pdh kW	11.2
			PERd %	114.8
		B Condition (2°CΔ- B/1°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	4.33
			Pdh kW	6.7
			PERd %	173.2
		C Condition (7°CΔ- B/6°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	6.83
			Pdh kW	4.7
			PERd %	273.2
		D Condition (12°CΔ- B/11°CΔWB)	Cdh (Degradation heating)	1.0
			COPd	8.82
			Pdh kW	5.5
			PERd %	352.8
		Tol (temperature operating limit)	COPd	2.48

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37	
Space heating 	Average climate water outlet 35°C	Tol (temperature operating limit)	Pdh	kW	11.8	
			PERd	%	99.2	
			TOL	°C	-10	
			WTOL	°C	35	
			Tbiv	COPd	2.48	
		(bivalent temperature)	Pdh	kW	11.8	
			PERd	%	99.2	
			Tbiv	°C	-10	
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296	
			ηs (Seasonal space heating efficiency)	%	159	
			Prated at -22°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	26	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,675	
			ηs (Seasonal space heating efficiency)	%	237	
			Prated at 2°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	10	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.30	
			Pdh	kW	11.9	
		C Condition (7°CDB/6°CWB)	PERd	%	132.0	
			Cdh (Degradation heating)		1.0	
			COPd		5.64	
			Pdh	kW	8.1	
		D Condition (12°CDB/11°CWB)	PERd	%	225.6	
			Cdh (Degradation heating)		1.0	
			COPd		7.73	
			Pdh	kW	5.2	
		Tbiv (bivalent temperature)	PERd	%	309.2	
			Tbiv	°C	2	
Control systems		Class of temperature control				VI
		Contribution to seasonal space heating efficiency				%
Electrical specifications					EDLA16DV37	
Compressor	Starting method				Inverter driven	
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM	
Compressor component	Main power supply	Phase	Voltage	V	1~	
					230	
					-10	
					10	
Power supply	Name	Phase	Frequency	Hz	V3	
					1~	
					50	
					230	
Voltage range	Min.	Max.	Voltage	V	-10	
					10	
Current	Maximum running current	Heating	A		30.8	
					Recommended fuses	A

2 Specifications

2 - 1 Specifications

2

Electrical specifications				EDLA16DV37
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	RST	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
Wiring connections	For power supply	Quantity		2G
		Remark		See installation manual outdoor unit
	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
		Type of wires		0,75 ~1,25 mm ² (P1P2)
	Preferential kWh rate	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
	Domestic hot water pump	Remark		Minimum 0.75 mm ²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Heating capacity	Nom.	kW		9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Heater capacity	Step 1	kW			3	
Power input	Heating	kW		1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		
Dimensions	Unit	Height	mm	870		
		Width	mm	1,380		
		Depth	mm	460		
	Packed unit	Height	mm	1,053		
		Width	mm	1,520		
		Depth	mm	650		
Weight	Unit		kg	149		
	Packed unit		kg	166		
Packing	Material			PE wrapping foil / Carton / Wood (pallet)		
	Weight		kg	17		
Heat exchanger	Length		mm	1,136 / 1,166 / 1,195		
	Rows	Quantity		3		
	Fin pitch		mm	1.4		
	Passes	Quantity		14		
	Face area		m ²	0.950 / 0.970 / 1.00		
	Stages	Quantity		38		
	Empty tubeplate hole	Quantity		0		
	Tube type			7.0 Hi-XD		
	Fin	Type		WF fin		
		Treatment		Anti-corrosion treatment		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4
Fan motor	Quantity				1		
	Model				Brushless DC motor		
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
	Output				230		
	Drive					Direct drive	
Compressor	Quantity				1		
	Model				2Y350BPAX1P#C		
	Type				Hermetically sealed swing compressor		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
Operation range	Heating	Ambient		Bar*I	159		
			Min.	°CDB	-25		
		Max.	°CDB	35			
		Water side	Min.	°C	15 (3)		
	Max.		°C	60 (3)			
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (3)		
	Refrigerant	Type				R-32	
GWP				675.0			
Charge				kg			
Control				Expansion valve			
Circuits		Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume				l		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP	Heating unit	kPa		106.9	102.7	96.5
	Power input				W		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume				l		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
Water side Heat exchanger	Insulation material				EPDM type		
	Heater				W		
Expansion vessel	Volume				l		
	Max. water pressure				bar		
	Pre pressure				bar		
	Heater				W		
	Diameter perforations				mm		
Water circuit	Material				Stainless steel		
	Piping connections diameter				inch		
	Piping				inch		
	Piping length	Max.	OU - Tank	m	10		
	Level difference	Max.			m		
	Safety valve				bar		
	Drain valve / fill valve				Yes		
	Shut off valve				Yes		
	Air purge valve				Yes		
	Minimum water volume in the system				l		
	Heater				W		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3		EDLA11D3V3		EDLA14D3V3	
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
	Manufacturer details	Name or trademark			Daikin Europe N.V.					
	Product description	Air-to-water heat pump	Yes							
		Brine-to-water heat pump	No							
		Heat pump combination heater	No							
		Low-temperature heat pump	No							
		Supplementary heater integrated	Yes							
	Water-to-water heat pump	No								
LW(A) Sound power level (according to EN14825)				dB(A)		62.0				
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	2,880		3,350		4,220		
		Other	Capacity control							
	Integrated supplementary heater	Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.023						
		Psb (Standby mode)	kW	0.023						
		Pto (Thermostat off)	kW	0.023						
		Type of energy input	Electrical							
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488		6,218		6,735	
			ηs (Seasonal space heating efficiency)	%	133		130		132	
		Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	9.0		10.0	
Qhe Annual energy consumption (GCV)	Gj				20		22		24	
General	SCOP				3.39		3.32		3.37	
	Seasonal space heating eff. class			A++						
A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0					
	COPd				2.09		1.90		2.02	
	Pdh			kW	8.5		9.3		9.4	
	PERd			%	83.6		76.0		80.8	
	B Condition (2°CDB/-11°CWB)			Cdh (Degradation heating)		1.0				
COPd					3.28		3.25		3.28	
Pdh				kW	5.0		5.4		6.2	
PERd				%	131.2		130.0		131.2	
C Condition (7°CDB/-6°CWB)				Cdh (Degradation heating)		1.0				
	COPd				4.80		4.81		4.88	
	Pdh			kW			4.4			
	PERd			%	192.0		192.4		195.2	
	D Condition (12°CDB/-11°CWB)			Cdh (Degradation heating)		1.0				
COPd					6.45		6.41		6.58	
Pdh				kW			5.3			
PERd				%	258.0		256.4		263.2	
Tol (temperature operating limit)		COPd		1.70		1.64		1.70		
	Pdh	kW	6.8		7.6		7.8			
	PERd	%	68.0		65.6		68.0			
	TOL	°C	-10							
	WTOL	°C	55							
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2		2.4		3.2			
	Tbiv (bivalent temperature)	COPd		1.92		1.90		2.09		
		Pdh	kW	8.8		9.3		9.4		
		PERd	%	76.8		76.0		83.6		
		Tbiv	°C	-8		-7		-6		
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,427		8,247		8,858		
		ηs (Seasonal space heating efficiency)	%	117				119		
	General	Prated at -22°C	kW	9.0		10.0		11.0		
		Qhe Annual energy consumption (GCV)	Gj	27		30		32		
		Warm climate water outlet 55°C	Annual energy consumption	kWh	2,921		3,184		3,792	
ηs (Seasonal space heating efficiency)	%		162		165		168			
Prated at 2°C	kW		9.0		10.0		12.1			

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Space heating Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj		11		14
	B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd		2.12		2.18	2.17
		Pdh	kW	9.0		9.8	
		PERd	%	84.8		87.2	86.8
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0	
		COPd		3.65		3.74	3.83
		Pdh	kW	6.2			7.6
		PERd	%	146.0		149.6	153.2
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd		5.68			5.69
		Pdh	kW			5.0	
		PERd	%	227.2			227.6
	Tbiv (bivalent temperature)	COPd		2.12		2.18	2.40
		Pdh	kW	9.0		9.8	11.0
		PERd	%	84.8		87.2	96.0
		Tbiv	°C	2			3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	4,456	4,923
			ηs (Seasonal space heating efficiency)	%	186	182	
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	18
			SCOP		4.72	4.64	4.62
			Seasonal space heating eff. class			A+++	
		A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95
	B Condition (2°CDB/11°CWB)	Pdh	kW	8.5		9.2	10.1
		PERd	%	122.8		121.2	118.0
		Cdh (Degradation heating)				1.0	
	C Condition (7°CDB/6°CWB)	COPd		4.52		4.37	4.35
		Pdh	kW	4.5		5.5	6.1
		PERd	%	180.8		174.8	174.0
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
		COPd		6.78		6.74	6.70
		Pdh	kW	4.7		4.6	
		PERd	%	271.2		269.6	268.0
		Cdh (Degradation heating)				1.0	
		COPd		8.75		8.54	8.65
		Pdh	kW	5.5		5.4	

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	
 Space heating	Average climate water outlet 35°C	D Condition (12°C CD- B/11°CWB)	PERd	%	350.0	341.6	346.0	
			Tol (temperature operating limit)	COPd	2.64	2.58	2.51	
				Pdh	kW	8.3	10.1	11.2
				PERd	%	105.6	103.2	100.4
				TOL	°C	-10		
		WTOL	°C	35				
		Tbiv (bivalent temperature)	COPd	2.75	2.58	2.51		
			Pdh	kW	8.7	10.1	11.2	
			PERd	%	110.0	103.2	100.4	
			Tbiv	°C	-9	-10		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0		
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,402	5,783	6,317	
			ηs (Seasonal space heating efficiency)	%	161	168	169	
			Prated at -22°C	kW	10.0		11.0	
			Qhe Annual energy consumption (GCV)	Gj	19	21	23	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435	
			ηs (Seasonal space heating efficiency)	%	233	237	238	
			Prated at 2°C	kW	9.0	10.0	11.0	
			Qhe Annual energy consumption (GCV)	Gj	7	8	9	
		B Condition (2°C CD- B/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.36	3.30	3.45	
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
		C Condition (7°C CD- B/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		5.59	5.70	5.77	
			Pdh	kW	5.9	6.7	7.4	
			PERd	%	223.6	228.0	230.8	
		D Condition (12°C CD- B/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		7.87		7.73	
			Pdh	kW	5.2			
			PERd	%	314.8		309.2	
		Tbiv (bivalent temperature)	COPd	3.36	3.30	3.45		
			Pdh	kW	9.0	10.3	10.8	
			PERd	%	134.4	132.0	138.0	
			Tbiv	°C	2			
Control systems		Class of temperature control				VI		
		Contribution to seasonal space heating efficiency				4		
Electrical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	
Compressor	Starting method				Inverter driven			
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM			
Compressor component	Main power supply	Phase			1~			
		Voltage		V	230			
		Min.		%	-10			
Hydraulic component	Voltage range	Max.		%	10			
		Back-up heater current	Type			3V3		
			Power supply	Phase		1~		
	Frequency				Hz	50		
	Voltage				V	230		
	Running current	Back-up heater	A		13.0			
	Voltage range	Min.			-10			
			Max.		10			
Wiring connections	Type of wires		Select diameter and type according to national and local regulations					
Power supply	Name		V3					
	Phase		1~					
	Frequency		50					
	Voltage		230					
Voltage range	Min.			-10				
		Max		10				

2 Specifications

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Electrical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Current	Maximum running current	Heating	A		30.8	
	Recommended fuses		A		32	
Wiring connections	Optional domestic hot water tank + Q2L	Quantity			3G	
		Type of wires			Minimum 2.5 mm ²	
	R5T	Quantity			2	
		Type of wires			Wire included in option EKHWS*	
	For connection with R6T	Quantity			2	
		Remark			Minimum 0.75 mm ²	
	A3P	Quantity			4	
		Type of wires			Select diameter and type according to national and local regulations	
	M2S	Quantity			2	
		Type of wires			Select diameter and type according to national and local regulations	
Wiring connections	M3S	Quantity			3	
		Type of wires			Select diameter and type according to national and local regulations	
		Quantity			2	
	Type of wires				Wire included in option EKFLSW1	
	For power supply	Quantity			2G	
		Remark			See installation manual outdoor unit	
	For connection with user interface	Quantity			4	
		Remark			0.75 mm ² till 1.25 mm ² (max length 200 m)	
		Type of wires			0,75 ~1,25 mm ² (P1P2)	
	Preferential kWh rate	Quantity			Power: 2	
Cable requirements	Domestic hot water pump	Quantity			3	
		Remark			Minimum 0.75 mm ²	
	Cooling/ Heating output	Maximum running current	A		3	

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

Technical specifications				EDLA16D3V37
Heating capacity	Nom.	kW		16.0 (1) / 16.0 (2)
Heater capacity	Step1	kW		3
Power input	Heating	kW		3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit	kg		149
	Packed unit	kg		166
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight	kg		17
Heat exchanger	Length	mm		1,136 / 1,166 / 1,195
	Rows	Quantity		3
	Fin pitch	mm		1.4
	Passes	Quantity		14
	Face area	m ²		0.950 / 0.970 / 1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		0
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37	
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
Fan motor	Air flow rate	Heating	High	m³/min	85.0	
	Quantity				1	
	Model				Brushless DC motor	
	Speed	Steps			8	
		Heating	Nom.	rpm	650	
	Output			W	230	
	Drive					Direct drive
Compressor	Quantity				1	
	Model				2Y350BPAX1P#C	
	Type				Hermetically sealed swing compressor	
PED	Category				Category II	
	Most critical part	Name	Ps*V	Bar*l	Accumulator	
Operation range	Heating	Ambient	Min.	°CDB	159	
			Max.	°CDB	-25	
		Water side	Min.	°C	35	
			Max.	°C	15 (3)	
	Domestic hot water	Ambient	Min.	°CDB	60 (3)	
			Max.	°CDB	-25	
		Water side	Min.	°C	35	
			Max.	°C	25	
					°C	55 (3)
		Refrigerant	Type			
GWP				675.0		
Charge	kg			3.80		
Control				Expansion valve		
Circuits	Quantity					1
Refrigerant oil	Type				FW68DA	
	Charged volume	l			1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	
Safety devices	Item	01				High pressure switch
		02				Low pressure switch
		03				Fan driver overload protector
		04				Fuse
		05				Compressor motor thermal protector
Pump	Quantity				1	
	Nr of speeds				PWM	
	Nominal ESP	Heating unit	kPa		71.4	
	Power input	W			180	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume	l			2.16	
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
Water side Heat exchanger	Insulation material				EPDM type	
	Heater	W			50.0	
Expansion vessel	Volume	l			8	
	Max. water pressure	bar			4	
	Pre pressure	bar			1	
	Heater	W			65	
Water filter	Diameter perforations			mm	0.8	
	Material			Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)	
	Piping			inch	1-1/4"	
	Piping length	Max.	OU - Tank	m	10	
	Level difference	Max.	m		5	
	Safety valve			bar	3	
	Drain valve / fill valve			Yes		
	Shut off valve			Yes		
	Air purge valve			Yes		
	Minimum water volume in the system			l	20 (4)	
	Heater			W	66.0	

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37		
General	Supplier/Manufacturer details	Name and address Name or trademark			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V.		
	Product description	Air-to-water heat pump				Yes	
		Brine-to-water heat pump				No	
		Heat pump combination heater				No	
		Low-temperature heat pump				No	
		Supplementary heater integrated				Yes	
		Water-to-water heat pump				No	
	LW(A) Sound power level (according to EN14825)			dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	5,100			
		Other	Capacity control			Inverter	
	Integrated supplementary heater	Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.023			
		Psb (Standby mode)	kW	0.023			
		Pto (Thermostat off)	kW	0.023			
		Type of energy input	Electrical				
	Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444	
			ηs (Seasonal space heating efficiency)	%	130		
Space heating			Average climate water outlet 55°C	General	Prated at -10°C	kW	12.0
	Qhe Annual energy consumption (GCV)	Gj			27		
	SCOP	3.33					
	Seasonal space heating eff. class	A++					
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0				
		COPd	1.95				
		Pdh	kW	9.4			
		PERd	%	78.0			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0				
		COPd	3.27				
		Pdh	kW	6.9			
		PERd	%	130.8			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0				
		COPd	4.93				
		Pdh	kW	4.4			
		PERd	%	197.2			
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0				
		COPd	6.60				
		Pdh	kW	5.3			
		PERd	%	264.0			
	Tol (temperature operating limit)	COPd	1.67				
		Pdh	kW	8.0			
		PERd	%	66.8			
		TOL	°C	-10			
		WTOL	°C	55			
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1			
		Tbiv (bivalent temperature)	COPd	2.13			
			Pdh	kW	10.1		
			PERd	%	85.2		
			Tbiv	°C	-5		
		Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,650	
				ηs (Seasonal space heating efficiency)	%	120	
	Prated at -22°C			kW	12.0		
	Qhe Annual energy consumption (GCV)			Gj	35		
	Warm climate water outlet 55°C			General	Annual energy consumption	kWh	4,519
ηs (Seasonal space heating efficiency)		%	164				
Prated at 2°C		kW	14.1				

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Technical specifications				EDLA16D3V37
Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	16
		B Condition (2°CΔ- B/1°CWB)	Cdh (Degradation heating)	1.0
			COPd	2.17
			Pdh kW	9.8
			PERd %	86.8
		C Condition (7°CΔ- B/6°CWB)	Cdh (Degradation heating)	1.0
			COPd	3.73
			Pdh kW	9.1
			PERd %	149.2
		D Condition (12°CΔ- B/11°CWB)	Cdh (Degradation heating)	1.0
			COPd	5.69
			Pdh kW	5.0
			PERd %	227.6
	Average climate water outlet 35°C	Tbiv (bivalent tempera- ture)	COPd	2.51
			Pdh kW	12.1
		PERd %		100.4
			Tbiv °C	4
		General	Annual energy consumption kWh	5,366
			ηs (Seasonal space heating efficiency) %	182
			Prated at -10°C kW	12.0
			Qhe Annual energy consumption (GCV) GJ	19
			SCOP	4.62
			Seasonal space heating eff. class	A+++
		A Condition (-7°CΔ- B/-8°CWB)	COPd	2.87
			Pdh kW	11.2
			PERd %	114.8
		B Condition (2°CΔ- B/1°CWB)	Cdh (Degradation heating)	1.0
			COPd	4.33
			Pdh kW	6.7
		C Condition (7°CΔ- B/6°CWB)	PERd %	173.2
			Cdh (Degradation heating)	1.0
			COPd	6.83
		D Condition (12°CΔ- B/11°CWB)	Pdh kW	4.7
			PERd %	273.2
			Cdh (Degradation heating)	1.0
			COPd	8.82
			Pdh kW	5.5

2 Specifications

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Technical specifications					EDLA16D3V37	
Space heating	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	PERd	%	352.8	
			Tol (temperature operating limit)	COPd		2.48
		Pdh		kW	11.8	
		PERd	%	99.2		
		TOL	°C	-10		
		WTOL	°C	35		
		Tbiv (bivalent temperature)	COPd		2.48	
			Pdh	kW	11.8	
			PERd	%	99.2	
		Rated heat output supplementary capacity	Tbiv	°C	-10	
			Psup (at Tdesign -10°C)	kW	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296	
			ηs (Seasonal space heating efficiency)	%	159	
			Prated at -22°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	26	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,675	
			ηs (Seasonal space heating efficiency)	%	237	
			Prated at 2°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	10	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.30	
			Pdh	kW	11.9	
		PERd	%	132.0		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0
				COPd		5.64
		Pdh		kW	8.1	
		PERd	%	225.6		
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0
				COPd		7.73
		Pdh		kW	5.2	
		PERd	%	309.2		
Tbiv (bivalent temperature)	COPd			3.30		
	Pdh		kW	11.9		
	PERd	%	132.0			
Tbiv	°C	2				
Control systems	Class of temperature control				VI	
	Contribution to seasonal space heating efficiency				4	
Electrical specifications					EDLA16D3V37	
Compressor	Starting method				Inverter driven	
Pump	Type				Grundfos UPMXL GE0 25-125 130 PWM	
Compressor component	Main power supply	Phase			1~	
			Voltage	V	230	
			Min.	%	-10	
			Max.	%	10	
Hydraulic component	Back-up heater current	Type			3V3	
			Power	Phase	1~	
		supply	Frequency	Hz	50	
		Voltage	V	230		
	Running current	Back-up heater			13.0	
			A			
	Voltage range	Min.	%	-10		
		Max.	%	10		
	Wiring connections	Type of wires				Select diameter and type according to national and local regulations
Power supply	Name				V3	
	Phase				1~	
	Frequency				50	
	Voltage				230	
Voltage range	Min.				-10	
	Max				10	

2 Specifications

2 - 1 Specifications

Electrical specifications				EDLA16D3V37
Current	Maximum running current	Heating	A	30.8
	Recommended fuses		A	32
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm ²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm ²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
Wiring connections	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		2G
		Remark		See installation manual outdoor unit
	For connection with user interface	Quantity		4
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)
		Type of wires		0,75 ~1,25 mm ² (P1P2)
	Preferential kWh rate	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm ²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

(1)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 45°C (Dt=5°C) |

(3)For more details, see operation range drawing |

(4)Depends on operation mode, refer to installation manual. |

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

According to EN14825

3 Electrical data

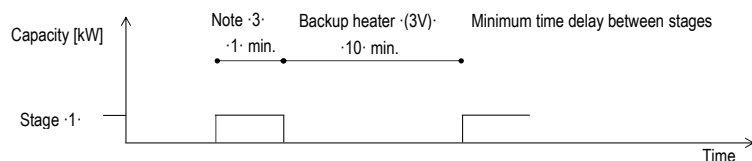
3 - 1 Electrical Data

EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1 / EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17

Backup heater	Type			3V
	Capacity setting		kW	3
	Capacity stage : 1			1
	Capacity stage : 1		kW	3
	Capacity stage : 2		kW	-
	Minimum time delay between stages			Note : 3
	Power supply	Phase		1~
	(1)	Frequency	Hz	50
		Voltage	V	230 +10%
		Nominal running current	A	13
Current		Zmax (backup heater) (2)	Ω	-
			Complex	-
		Minimum Ssc value	kVA	-

Electrical specifications

Notes	(1)	The above-mentioned power supply of the hydrobox is for the backup heater only.
	(2)	In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $Z_{sys} \leq Z_{max}$.
	EN/IEC 61000-3-11	European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.
	EN/IEC 61000-3-12	European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.
	Zsys	System impedance



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4 Combination table

4 - 1 Combination Table

4

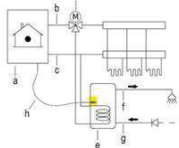
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Kit availability for -E(B/D)LA*DA*.

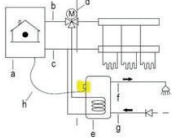
Reference	Description	Notes	E(B/D)LA(09/11/14/16)DA			
			No backup heater		Backup heater	
			Heating only	Reversible	Heating only	Reversible
			EDLA(09/11/14/16) DA(V3/W1), EDLA16DA (V37/W17)	EBLA(09/11/14/16) DA(V3/W1), EBLA16DA (V37/W17)	EDLA(09/11/14/16) DA3(V3/W1), EDLA16DA3 (V37/W17)	EBLA(09/11/14/16) DA3(V3/W1), EBLA16DA3 (V37/W17)
EKRP1HBAA	Digital I/O PCB	(1)	o	o	o	o
EKRP1AHTA	Demand PCB		o	o	o	o
BRC1HHDA*	Remote user interface		o	o	o	o
BRP069A78	WLAN cartridge	(2)	o	o	o	o
EKRELSG	Relay for Smart Grid		o	o	o	o
KRCS01-1	Remote indoor sensor	(3)	o	o	o	o
EKRSCA1	Remote sensor for outdoor	(3)	o	o	o	o
EKPCCAB4	PC cable kit		o	o	o	o
EKCC8-W	Universal centralised user interface		o	o	o	o
EKHY3PART	Third-party tank connection kit for thermistor pocket	(4) (6)	o	o	o	o
EKHY3PART2	Third-party tank connection kit for thermostat contact	(5) (6)	o	o	o	o
EKLBHUCB6W	Backup heater kit	(7)	o	o	-	-
EKMBHBP1	Valve kit	(7)	-	o	-	-
EKFLSW2	Flow switch	(8)	o	o	o	o
AFVALVE1	Freeze protection valve		o	o	o	o
FWXV10-15-20ABTV3*	Heat pump convector	Floor standing unit	o	o	o	o
FWXT10-15-20ABTV3*	Heat pump convector	Wall mounted type	o	o	o	o
FWXM10-15-20ATV3*	Heat pump convector	Concealed ceiling	o	o	o	o
EKHWS(P)150D3V3	Domestic hot water tank -LT 150 1~230V-		o	o	o	o
EKHWS(P)180D3V3	Domestic hot water tank -LT 180 1~230V-		o	o	o	o
EKHWS(P)200D3V3	Domestic hot water tank -LT 200 1~230V-		o	o	o	o
EKHWS(P)250D3V3	Domestic hot water tank -LT 250 1~230V-		o	o	o	o
EKHWS(P)300D3V3	Domestic hot water tank -LT 300 1~230V-		o	o	o	o
EKHWSU150D3V3	Domestic hot water tank -LT 150 1~230V- (only for UK)	(9)	o	o	o	o
EKHWSU180D3V3	Domestic hot water tank -LT 180 1~230V- (only for UK)	(9)	o	o	o	o
EKHWSU200D3V3	Domestic hot water tank -LT 200 1~230V- (only for UK)	(9)	o	o	o	o
EKHWSU250D3V3	Domestic hot water tank -LT 250 1~230V- (only for UK)	(9)	o	o	o	o
EKHWSU300D3V3	Domestic hot water tank -LT 300 1~230V- (only for UK)	(9)	o	o	o	o
EKHWP300B	Domestic hot water tank -HT 300-	(10) (11)	o	o	o	o
EKHWP500B	Domestic hot water tank -HT 500-	(10) (11)	o	o	o	o
EKHWP300PB	Domestic hot water tank -HT 300-	(10) (11)	o	o	o	o
EKHWP500PB	Domestic hot water tank -HT 500-	(10) (11)	o	o	o	o
BZKA7V3	Bizone kit		o	o	o	o
EKRTWA	Wired room thermostat		o	o	o	o
EKRTR1	Wireless room thermostat		o	o	o	o
EKRTETS	External temperature sensor option kit	(12)	o	o	o	o
EKWUFHTA1V3	Multi zoning kit		o	o	o	o

NOTES

- Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- This option cannot be installed in certain countries. Refer to the country compliance overview of the option.
- Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- EKHY3PART- can be used if you have a tank in which you can insert a thermistor.



- EKHY3PART2- can be used if you have a tank in which you cannot insert a thermistor. For details, see the installer reference guide.



- Conditions for third-party tank
Third-party with identical specifications as -EKHWS*.
Coil surface >1.05-m² and <3.7-m²
Tank thermistor and booster heater above heat pump coil.
- Necessity to install a bypass kit -EKMBHBP1- to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.
- EKFLSW1- is obligatory for Monoblock & Mini-chiller in case Glycol is used.
- Only possible in combination with -EKEXPVES-
- Domestic hot water tank with solar connection. Dedicated connection kit available. Other options EKRS4A* Solar pump station.
For the combination with -EKHWP*, refer to the combination table of -EKHWP*.
- The installation of -EKH35* is mandatory. As backup or for tank preheating. For details, see the installer reference guide.
- Can only be used in combination with the wireless room thermostat.

REMARK

Other combinations than mentioned in this combination table are prohibited.

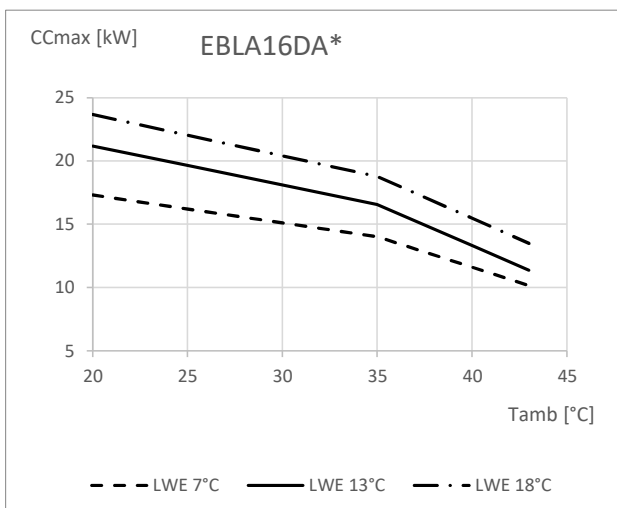
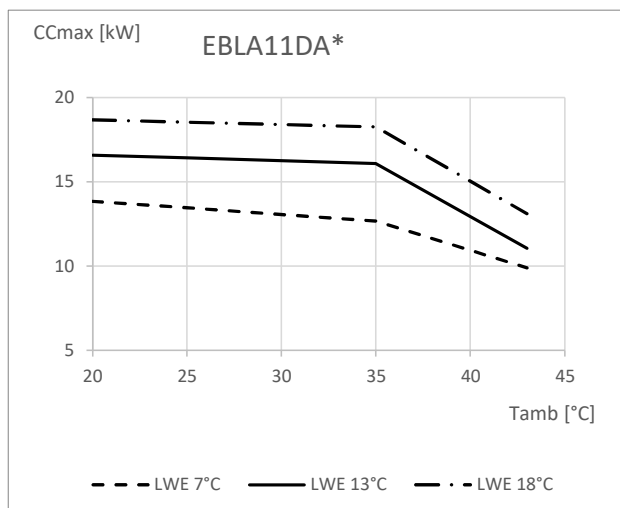
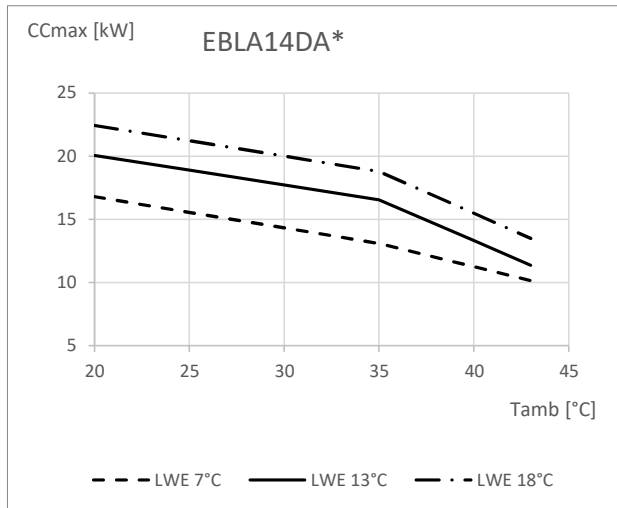
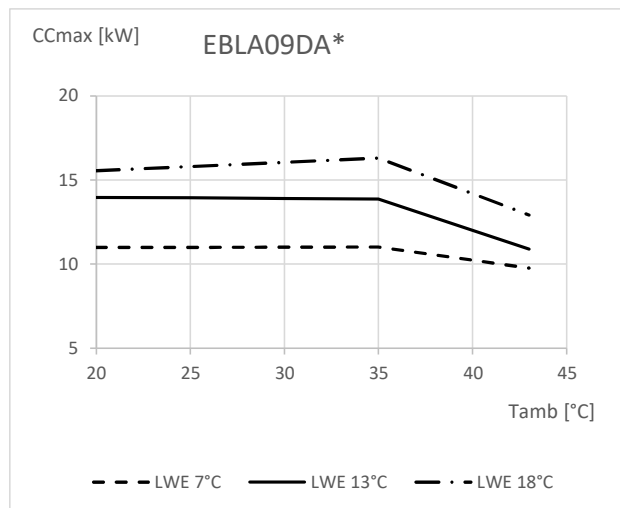
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5 Capacity graphs

5 - 1 Cooling Capacity Graphs

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17

Maximum cooling capacity



Symbols

CC_{max} Cooling capacity at maximum operating frequency, measured according to EN 14511.

LWE Leaving water evaporator temperature [°C]

Tamb Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.

Notes

The capacity and power input is valid for ·V3· models at ·230·V and for for ·W1· models at ·400·V.

The capacity and the power input are at maximum operation.

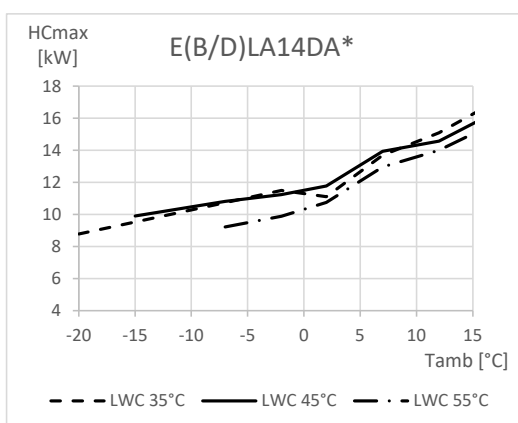
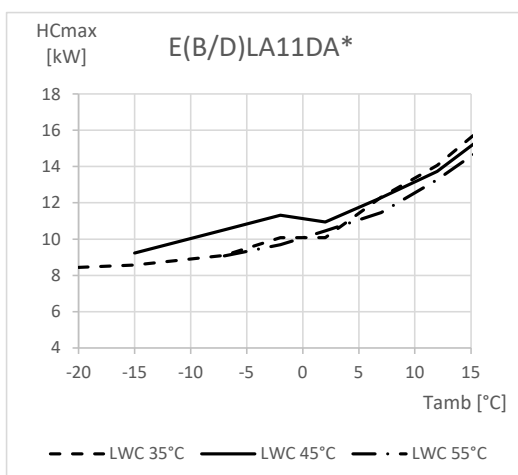
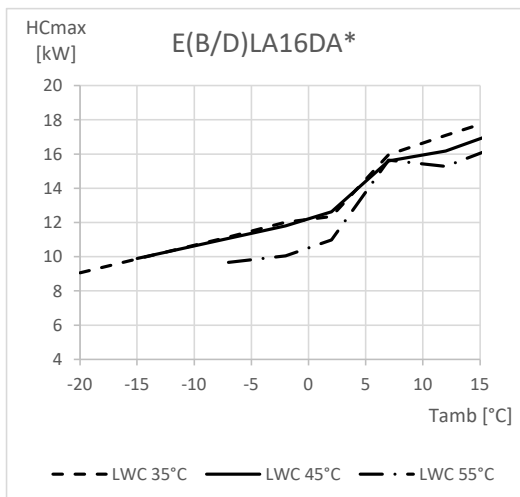
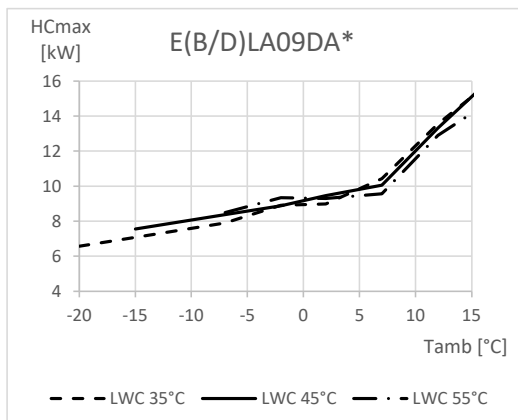
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5 Capacity graphs

5 - 2 Heating Capacity Graphs

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17 / EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Maximum heating capacity - integrated value



Symbols

HC_{max} Heating capacity for maximum load, measured according to EN 14511
LWC Leaving water condensor temperature [°C]
Tamb Ambient temperature [°C DB]

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3 \sim 8^\circ\text{C}$.

Notes

The capacity and power input is valid for ·V3· models at ·230·V and for ·W1· models at ·400·V.
The capacity and the power input are at maximum operation.

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6 Capacity tables

6 - 1 Certification Programs

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Rated data for certification programmes - heating mode

			E(B/D)LA09DA(V3/3V3)		E(B/D)LA11DA(V3/3V3)		E(B/D)LA14DA(V3/3V3)		E(B/D)LA16DA(V3/3V3)(7)		E(B/D)LA09DA(W1/3W1)		E(B/D)LA11DA(W1/3W1)	
Tamb	EWC	LWC	HC	COP	HC	COP	HC	COP	HC	COP	HC	COP	HC	COP
[°C]	[°C]	[°C]	[kW]	[-]	[kW]	[-]	[kW]	[-]	[kW]	[-]	[kW]	[-]	[kW]	[-]
10/9	30	35	9.20	5.32	9.20	5.32	9.20	5.32	9.20	5.32	9.20	5.32	9.20	5.32
7/6	30	35	9.37	4.91	10.56	4.83	12.00	4.87	16.00	4.53	9.37	4.91	10.56	4.83
2/1	(30)	35	7.64	3.79	9.00	3.65	10.80	3.50	12.00	3.30	7.64	3.79	9.00	3.65
2/1	(30)	35	6.29	4.01	6.29	4.01	6.29	4.01	6.29	4.01	6.29	4.01	6.29	4.01
-7/-8	(30)	35	8.00	2.81	8.75	2.92	9.30	2.86	10.60	2.70	8.00	2.81	8.75	2.92
7/6	40	45	9.00	3.71	9.82	3.66	12.45	3.64	16.00	3.51	9.00	3.71	9.82	3.66
-2/-3	(40)	45	9.00	2.35	10.86	2.35	11.30	2.30	12.00	2.30	9.00	2.35	10.86	2.35
-7/-8	(40)	45	7.76	2.22	8.72	2.35	8.98	2.29	10.49	2.10	7.76	2.22	8.72	2.35
7/6	47	55	9.57	2.91	10.64	2.94	11.87	2.89	15.63	2.75	9.57	2.91	10.64	2.94
-7/-8	47	55	7.13	1.80	7.89	1.82	8.47	1.82	8.87	1.78	7.13	1.80	7.89	1.82

			E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1) (7)		Used for:
Tamb	EWC	LWC	HC	COP	HC	COP	
[°C]	[°C]	[°C]	[kW]	[-]	[kW]	[-]	
10/9	30	35	9.20	5.32	9.20	5.32	BAFA
7/6	30	35	12.00	4.87	16.00	4.53	Keymark, EHPA, BAFA, GET
2/1	(30)	35	10.80	3.50	12.00	3.30	EHPA, GET
2/1	(30)	35	6.29	4.01	6.29	4.01	BAFA
-7/-8	(30)	35	10.50	3.00	12.30	2.87	EHPA, BAFA, GET
7/6	40	45	12.45	3.64	16.00	3.51	EHPA
-2/-3	(40)	45	12.37	2.58	13.93	2.46	MCS
-7/-8	(40)	45	8.98	2.29	10.49	2.10	EHPA
7/6	47	55	11.87	2.89	15.63	2.75	Keymark, EHPA, GET
-7/-8	47	55	8.47	1.82	8.87	1.78	GET, EHPA

Rated data for certification programmes - cooling mode

Nominal cooling capacity

			EBLA09DA(3)(V3/W1)		EBLA11DA(3)(V3/W1)		EBLA14DA(3)(V3/W1)		EBLA16DA(3)(V3/W1)(7)		Used for:	
Tamb	EWE	LWE	CC	EER	CC	EER	CC	EER	CC	EER		
[°C]	[°C]	[°C]	[kW]	[-]	[kW]	[-]	[kW]	[-]	[kW]	[-]		
35	23	18	9.10	5.34	11.51	5.31	12.68	5.04	15.33	4.74	General	DACI
35	12	7	9.35	3.35	11.59	3.26	12.82	3.16	14.01	3.06	Keymark	DAPT

Seasonal data - cooling

LWE 7°C

Low temperature Application

		EBLA09DA(3)(V3/W1)	EBLA11DA(3)(V3/W1)	EBLA14DA(3)(V3/W1)	EBLA16DA(3)(V3/W1)(7)
SEER	[-]	9.3	11.5	12.8	14.000
Pdes	[kW]	5.62	5.79	5.71	5.59
η_{sc}	[-]	222	229	226	221
Q _{CE}	[kWh/annum]	993	1190	1340	1500

Rated data for certification programmes - domestic hot water performance

Outdoor unit		E(B/D)LA(09/11/14/16)DA(3)V3(7)		E(B/D)LA(09/11/14/16)DA(3)W1(7)	
Domestic hot water tank		EKHWS(P/U)250D3V3	EKHWS(P/U)300D3V3	EKHWS(P/U)250D3V3	EKHWS(P/U)300D3V3
Tapping pattern		XL	XL	XL	XL
Application		Average climate (design temperature: -7.°C)			
COP _{DHW}	[-]	2.51	2.73	2.69	2.87
η _{wh}	[%]	102.9%	112.0%	110.1%	117.5%
AEC	[kWh]	1628	1495	1521	1426
Application		Colder climate (design temperature: -2.°C)			
COP _{DHW}	[-]	2.04	2.24	2.20	2.35
η _{wh}	[%]	83.3%	91.8%	89.8%	96.1%
AEC	[kWh]	2011	1826	1865	1744
Application		Warmer climate (design temperature: -14.°C)			
COP _{DHW}	[-]	2.96	3.23	3.12	3.40
η _{wh}	[%]	121.8%	132.9%	128.0%	139.5%
AEC	[kWh]	1375	1261	1309	1200

SYMBOLS

COP _{DHW}	Domestic hot water COP
	According to EN16147
η_{wh}	(Water heating energy efficiency)
AEC	Annual energy consumption [kWh]

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6 Capacity tables

6 - 1 Certification Programs

6

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Rated data for certification programmes - heating mode
According to -UNI/TS 11300-

Condition	EBLA09DA(V3/3V3)			E(B/D)LA11DA(V3/3V3)		E(B/D)LA14DA(V3/3V3)		E(B/D)LA16DA(V3/3V3)(7)	
	Tamb [°C]	EWC [°C]	LWC [°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	-7/-8	34	100	7.96	2.50	9.12	2.44	10.68	2.50
B	2/1	30	100	9.10	3.33	10.35	3.34	11.22	3.69
C	7/6	27	100	9.41	6.04	10.74	5.94	13.85	5.43
D	12/11	24	100	15.25	7.15	16.34	7.03	17.99	6.87
A	-7/-8	52	100	8.51	1.87	9.57	1.81	9.75	1.82
B	2/1	42	100	9.31	2.63	10.68	2.59	11.57	2.63
C	7/6	36	100	10.38	4.62	12.31	4.58	13.71	4.47
D	12/11	30	100	13.80	4.91	14.32	5.23	15.37	5.84

Condition	EBLA09DA(W1/3W1)			E(B/D)LA11DA(W1/3W1)		E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1)(7)	
	Tamb [°C]	EWC [°C]	LWC [°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	-7/-8	34	100	7.96	2.50	9.12	2.44	10.68	2.50
B	2/1	30	100	9.10	3.33	10.35	3.34	11.22	3.69
C	7/6	27	100	9.41	6.04	10.74	5.94	13.85	5.43
D	12/11	24	100	15.25	7.15	16.34	7.03	17.99	6.87
A	-7/-8	52	100	8.51	1.87	9.57	1.81	9.75	1.82
B	2/1	42	100	9.31	2.63	10.68	2.59	11.57	2.63
C	7/6	36	100	10.38	4.62	12.31	4.58	13.71	4.47
D	12/11	30	100	13.80	4.91	14.32	5.23	15.37	5.84

Rated data for certification programmes - cooling mode
According to -UNI/TS 11300-

Condition	EBLA09DA(V3/3V3)			EBLA11DA(V3/3V3)		EBLA14DA(V3/3V3)		EBLA16DA(V3/3V3)(7)	
	Tamb [°C]	EWC [°C]	LWC [°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	35	18	100	16.31	3.64	18.25	3.42	18.79	3.99
B	30	18	75	11.45	6.20	13.38	5.51	15.53	5.51
C	25	18	50	8.19	9.52	9.13	9.04	10.29	9.62
D*	20	18	25	4.08	14.28	4.56	14.38	4.70	14.41
A	35	7	100	11.02	2.98	12.68	2.74	13.09	3.02
B	30	7	75	7.68	4.32	9.03	4.09	10.71	4.04
C	25	7	50	5.71	5.83	6.26	5.64	6.81	5.82
D*	20	7	25	2.75	6.46	3.17	6.52	3.27	6.53

Condition	EBLA09DA(W1/3W1)			EBLA11DA(W1/3W1)		EBLA14DA(W1/3W1)		EBLA16DA(W1/3W1)(7)	
	Tamb [°C]	EWC [°C]	LWC [°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	35	18	100	16.31	3.64	18.25	3.42	18.79	3.99
B	30	18	75	11.45	6.20	13.38	5.51	15.53	5.51
C	25	18	50	8.19	9.52	9.13	9.04	10.29	9.62
D*	20	18	25	4.08	14.28	4.56	14.38	4.70	14.41
A	35	7	100	11.02	2.98	12.68	2.74	13.09	3.02
B	30	7	75	7.68	4.32	9.03	4.09	10.71	4.04
C	25	7	50	5.71	5.83	6.26	5.64	6.81	5.82
D*	20	7	25	2.75	6.46	3.17	6.52	3.27	6.53

At part load -D* data is calculated with ON/OFF compensation according to -EN14825- for the purpose of the software calculation tool. In reality, the minimum load of the unit in this condition is higher than -25%.

Rated data for certification programmes - standby power consumption

Standby power input		E(B/D)LA(09/11/14/16)DA(3)(V3/W1)(7)	Used for:
[W]		23	Taux

SYMBOLS

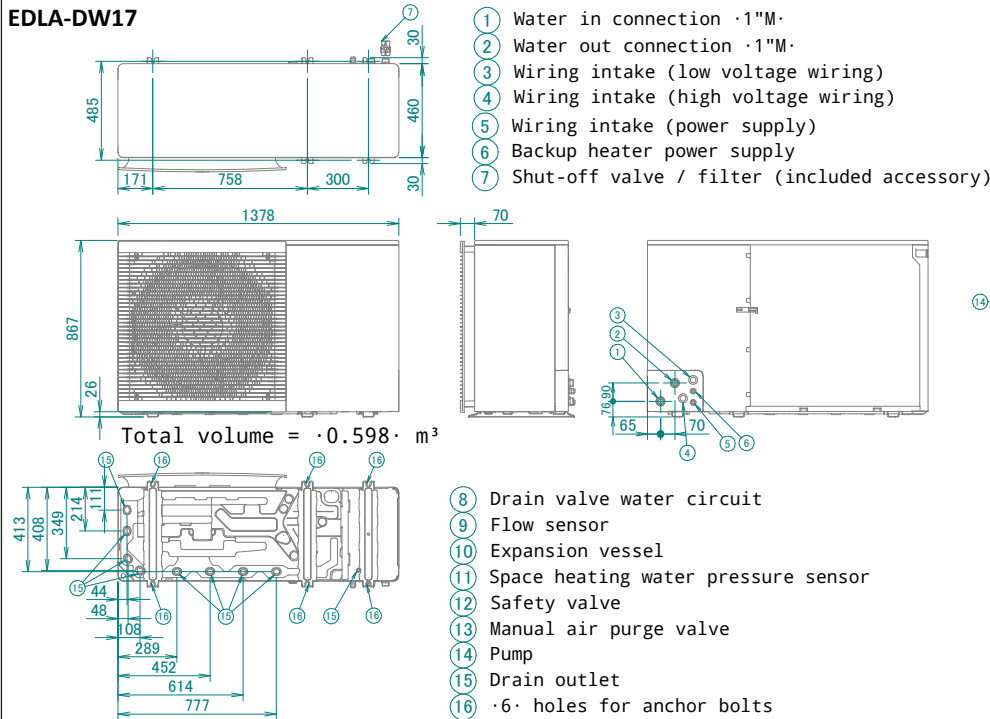
HC	Heating capacity measured according to EN 14511	
CC	Cooling capacity, measured according to EN 14511	
COP/EER	Coefficient of Performance/Energy efficiency ratio according to EN 14511	
EWC	Entering water condenser temperature	[°C]
LWC	Leaving water condensor temperature	[°C]
EWE	Entering water evaporator temperature	[°C]
LWE	Leaving water evaporator temperature	[°C]
Tamb	Ambient temperature	[°C DB/WB]
Pdes	Nominal capacity value at design temperature	[kW]
η _{sc}	Seasonal space cooling energy efficiency according to EN14825	
SEER	Seasonal energy efficiency ratio according to EN14825	
Q _{ce}	Annual energy consumption for cooling according to EN14825	

3D130658D

7 Dimensional drawings

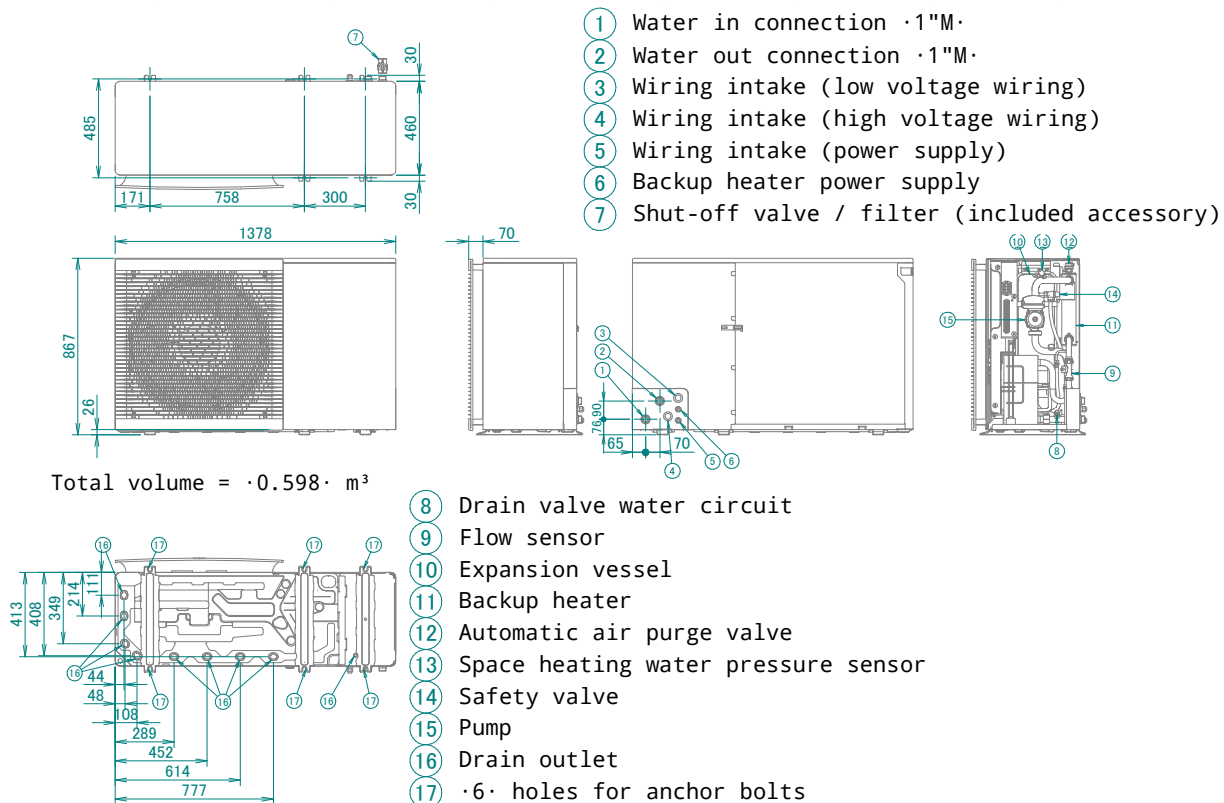
7 - 1 Dimensional Drawings

EBLA09-14DV3 / EBLA09-14DW1 / EDLA09-14DV3 / EDLA09-14DW1 / EBLA-DV37 / EBLA-DW17 / EDLA-DV37 / EDLA-DW17



3D129505A

EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1 / EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17

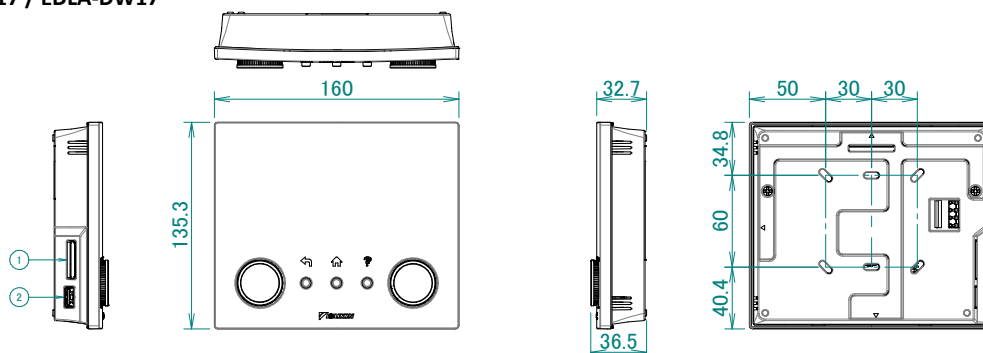


3D128950A

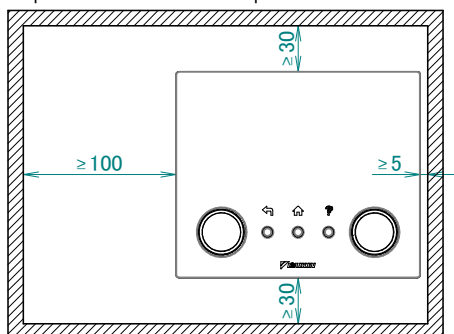
7 Dimensional drawings

7 - 1 Dimensional Drawings

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17 / EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



Required installation space



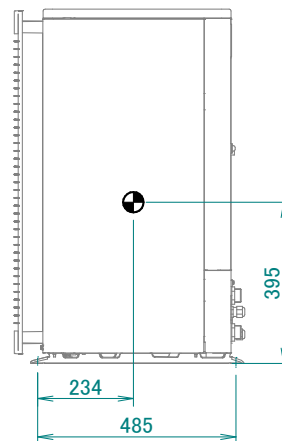
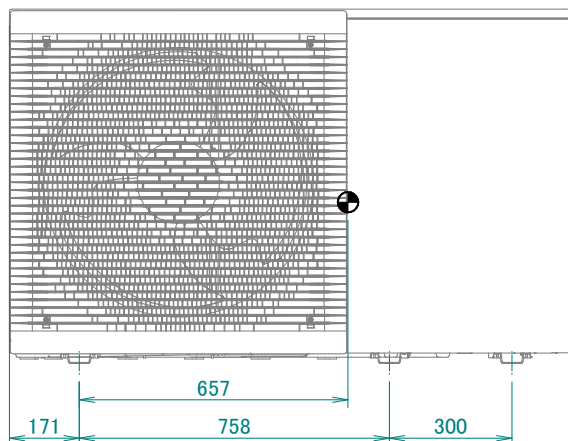
- ① USB Connector
- ② WLAN cartridge

3D132732

8 Centre of gravity

8 - 1 Centre of Gravity

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

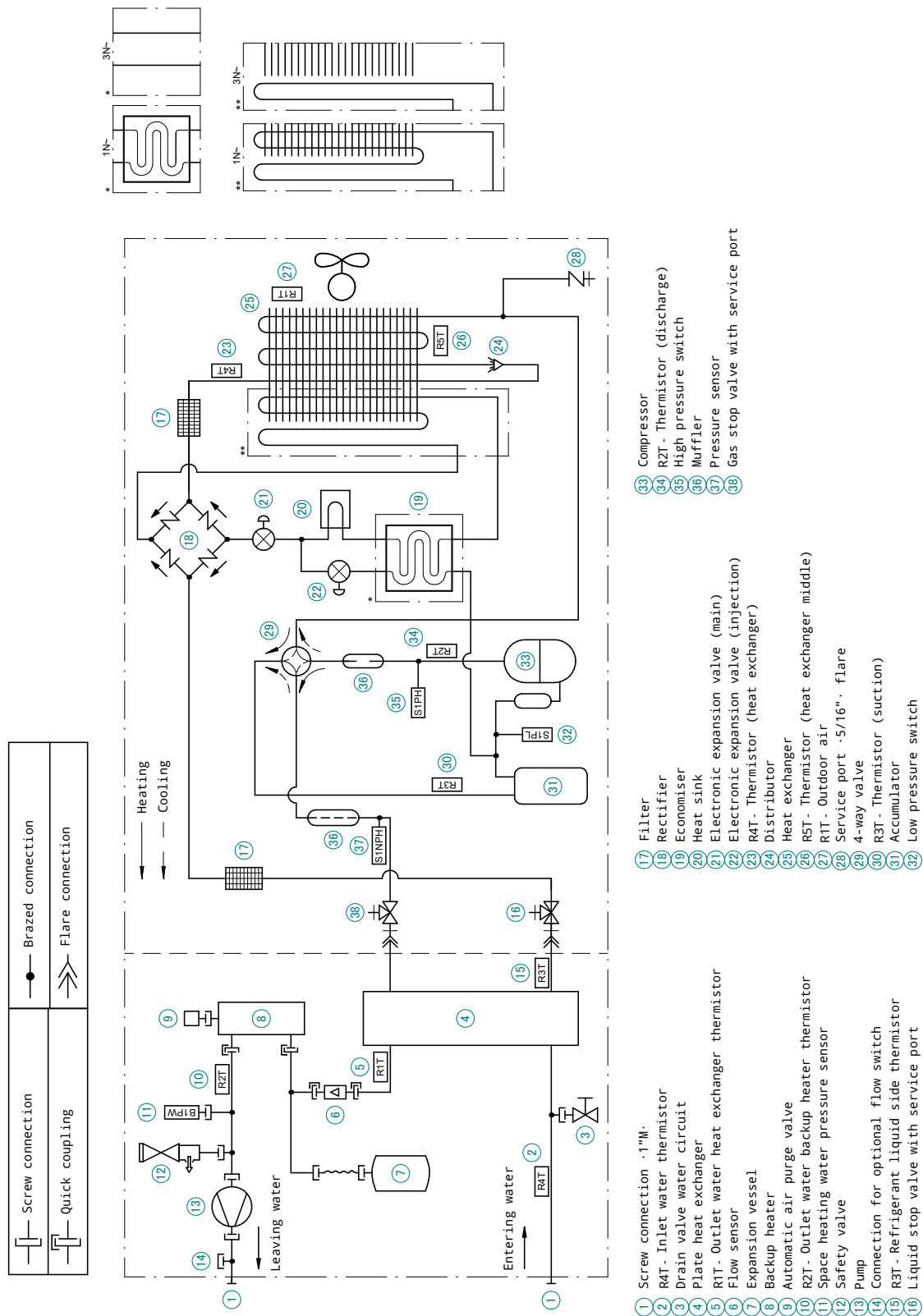


4D128956

9 Piping diagrams

9 - 1 Piping Diagrams

EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1 / EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17

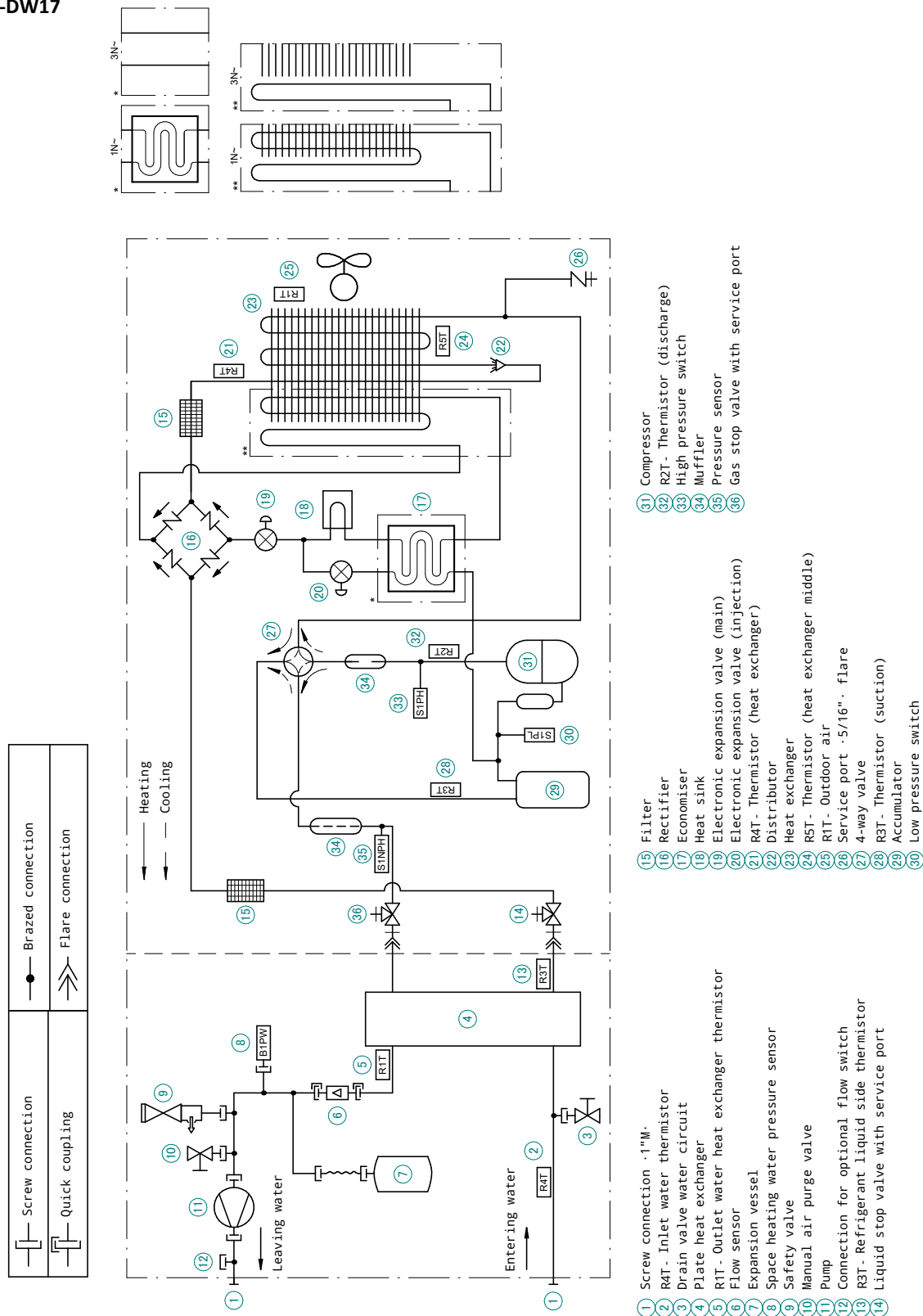


3D128953A

9 Piping diagrams

9 - 1 Piping Diagrams

EBLA09-14DV3 / EBLA09-14DW1 / EDLA09-14DV3 / EDLA09-14DW1 / EBLA-DV37 / EBLA-DW17 / EDLA-DV37 / EDLA-DW17



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10 Wiring diagrams

10 - 1 Notes & Legend

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

(2) NOTES

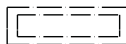
X14M, X15M : Main terminal

— — — — — : Earth wiring

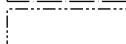
15 : Wire number 15

- - - - - : Field supply

① : Several wiring possibilities



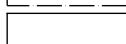
: Option



: Wiring depending on model



: Not mounted in switch box



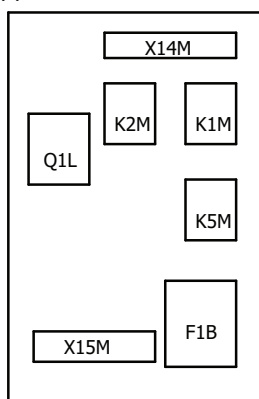
: PCB

Optional backup heater configuration :
(only for EKLBUHCB6W1)

□ 1N~, 230V, 3kW or 6kW

□ 3N~, 400V, 6kW or 9kW

(3) BUH kit switch box



EKLBUHCB6W1

(4) Legend

Part n°	Description
E1H	BUH element (1 kW)
E2H	BUH element (2 kW)
F1B	Overcurrent fuse BUH
F1T	Thermal fuse BUH
F1U	Fuse
K1M	Contactor BUH (Step 1)
K2M	Contactor BUH (Step 2)
K5M	Safety contactor BUH
Q3DI	# Earth leakage circuit breaker
Q1L	Thermal protector BUH
R2T	Outlet BUH thermistor
X*M	Terminal strip

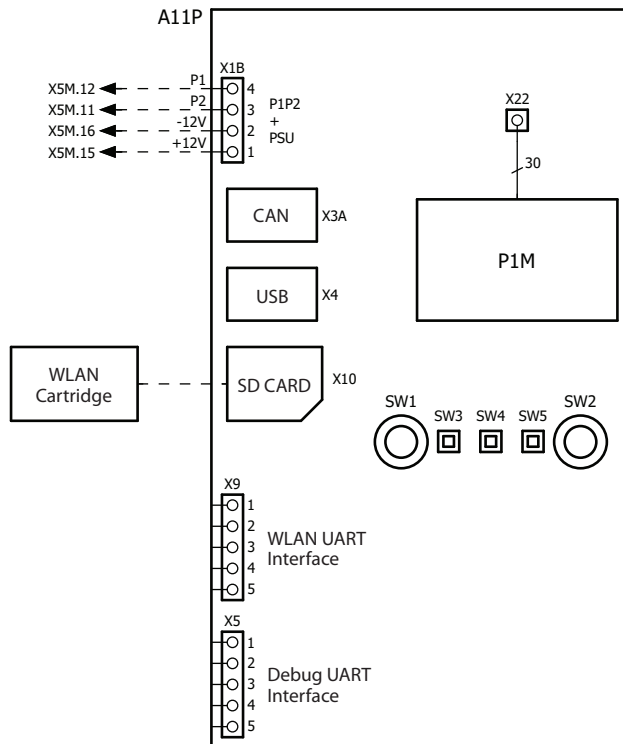
#: field supply

4D124072F

10 Wiring diagrams

10 - 2 Control Circuit, Inverter

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



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10 Wiring diagrams

10 - 3 Compressor - Notes & Legend

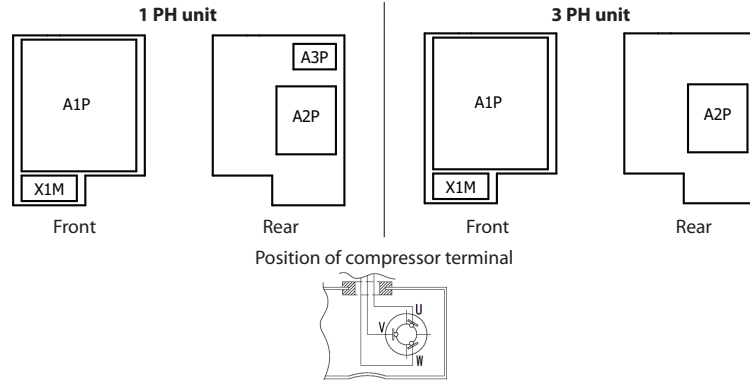
10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

NOTES to go through before starting the unit

- X1M : Main terminal
- : Earth wiring
- - - - - : Field supply
- ① : Several wiring possibilities
- [] : Option
- [] : Wiring depending on model
- [] : Not mounted in switch box
- [] : PCB

POSITION IN SWITCH BOX



NOTES

- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS4 and DS1 switches.
- When operating, do not short-circuit protection device Q1, S1PH and S1PL.
- Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X77A.
- Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; BRN: brown; YLW: yellow; ORG: orange
- Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: OFF

LEGEND

1 PH unit		3 PH unit	
Part n°	Description	Part n°	Description
A1P	Printed circuit board (main)	A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)	A2P	Printed circuit board (noise filter)
A3P	Printed circuit board (flash)	C* (A1P)	Capacitor
C* (A*P)	Capacitor	BS* (A1P)	Push-button switch
BS* (A1P)	Push-button switch	DS1 (A1P)	Dipswitch
DS1 (A1P)	Dipswitch	F1U, F3U~F4U (A2P)	Fuse T 6.3 A 250 V
F1U, F3U~F4U (A2P)	Fuse T 6.3 A 250 V	F4U, F5U (A2P)	Fuse T 30 A 250 V
F2U (A2P)	Fuse T 56 A 250 V	F7U (A1P)	Fuse T 5 A 250 V
F6U (A1P)	Fuse T 5 A 250 V	HAP (A1P)	Light emitting diode (service monitor is green)
H1~7P (A1P)	Indication light emitting diode (service monitor is orange)	K1R (A1P)	Magnetic relay (Y1S)
HAP (A1P)	Light emitting diode (service monitor is green)	K10~84R (A1P)	Magnetic relay
K1R (A1P)	Magnetic relay (Y1S)	K*M (A1P)	Magnetic relay (Main)
K10~13R (A1P)	Magnetic relay	L*R (A*P)	Reactor
K11M (A1P)	Magnetic relay (Main)	M1C	Compressor motor
K14~15R (A2P)	Magnetic relay	M1F	Fan motor
L*R (A1P)	Reactor	PS (A1P)	Switching power supply
M1C	Compressor motor	Q1	Thermal overcurrent protector
M1F	Fan motor	Q1DI	# Earth leakage circuit breaker (30mA)
PS (A1P)	Switching power supply	R2~R807 (A1P)	Resistor
Q1	Thermal overcurrent protector	R1T	Thermistor (air)
Q1DI	# Earth leakage circuit breaker (30mA)	R2T	Thermistor (discharge)
R533~R807 (A*P)	Resistor	R3T	Thermistor (suction)
R1T	Thermistor (air)	R4T	Thermistor (distribution pipe)
R2T	Thermistor (discharge)	R5T	Thermistor (heat exchanger middle)
R3T	Thermistor (suction)	R11T (A1P)	Thermistor (fin)
R4T	Thermistor (distribution pipe)	RC (A2P)	Signal receiver circuit
R5T	Thermistor (heat exchanger middle)	S1NPH	Pressure sensor
R11T (A1P)	Thermistor (fin)	S1PH	High pressure switch
RC (A2P)	Signal receiver circuit	S1PL	Low pressure switch
S1NPH	Pressure sensor	TC (A2P)	Signal transmission circuit
S1PH	High pressure switch	V*D (A1P)	Diode
S1PL	Low pressure switch	V1~2R (A1P)	Diode module
TC (A2P)	Signal transmission circuit	V3~5R (A1P)	Power module
V*D (A1P)	Diode	X1M	Terminal strip
V1~2R (A1P)	Diode module	X*A, X*Y (A*P)	Connector
V3~5R (A1P)	Power module	Y1E, Y3E	Electronic expansion valve
X1M	Terminal strip	Y1S	Solenoid valve (4-way valve)
X*A, X*Y (A*P)	Connector	Z*C	Noise filter (ferrite core)
Y1E, Y3E	Electronic expansion valve	Z*F (A*P)	Noise filter
Y1S	Solenoid valve (4-way valve)		
Z*C	Noise filter (ferrite core)		
Z*F (A*P)	Noise filter		

* : optional

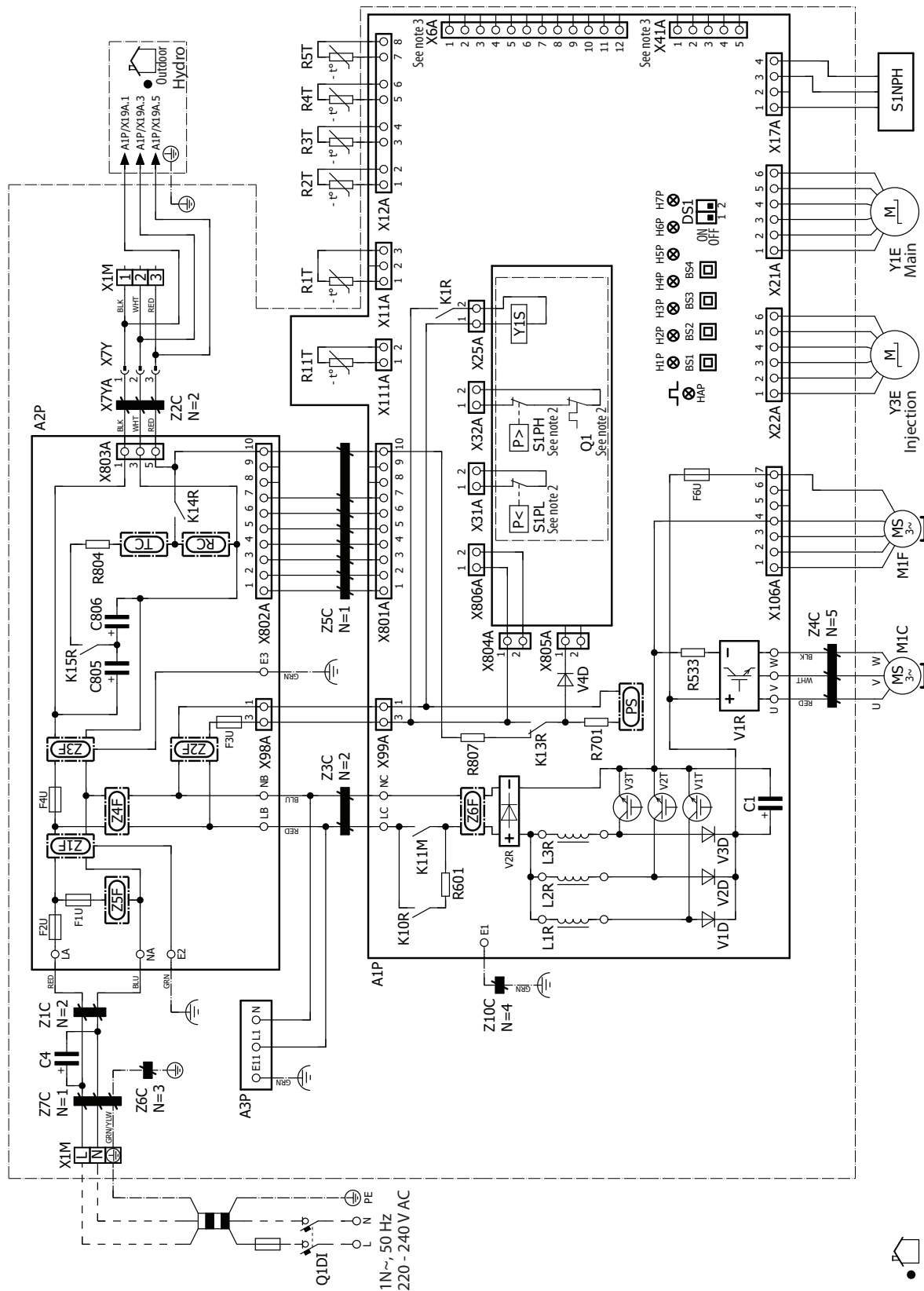
#: field supply

4D124072F

10 Wiring diagrams

10 - 4 Compressor - Single phase

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



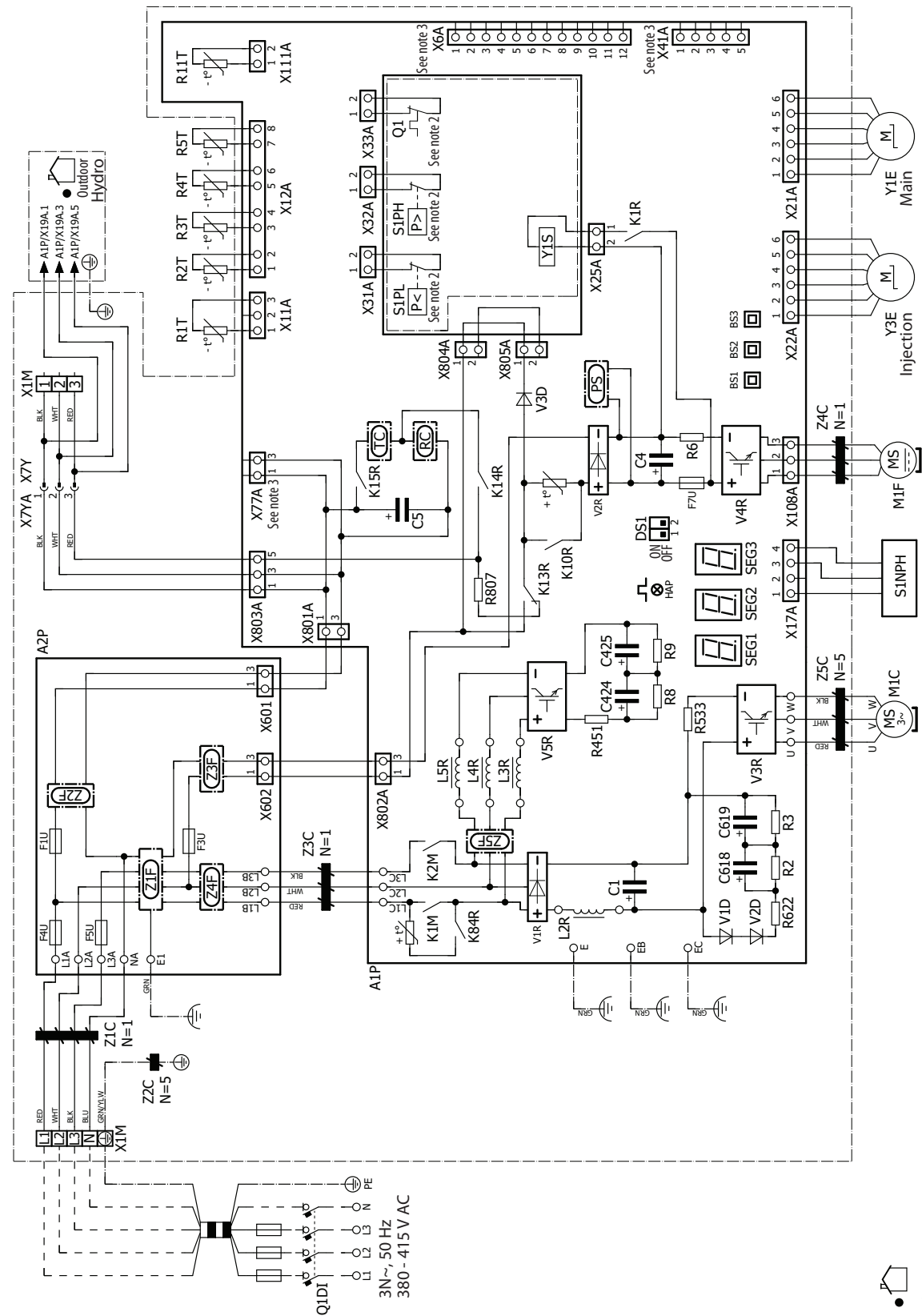
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10 Wiring diagrams

10 - 5 Compressor - Three phase

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



4D124072F

10 Wiring diagrams

10 - 6 Hydro Module - Notes & Legend

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

NOTES to go through before starting the unit

X1M : Main terminal
X2M : Field wiring terminal for AC
X3M : External backup heater terminal
X4M : Booster heater power supply terminal
X5M : Field wiring terminal for DC
X9M : Internal backup heater power supply terminal
X10M : Smartgrid terminal
----- : Earth wiring
- - - - - : Field supply

① : Several wiring possibilities

[] : Option

[] : Wiring depending on model

[] : Not mounted in switch box

[] : PCB

Backup heater power supply: ☐ 3V (1N~, 230V, 3kW)

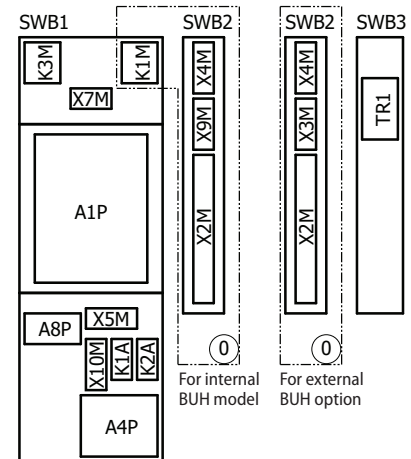
User installed options:

- ☐ LAN adapter
- ☐ Domestic hot water tank
- ☐ External backup heater
- ☐ Booster heater
- ☐ Remote user interface
- ☐ Ext. indoor thermistor
- ☐ Ext. outdoor thermistor
- ☐ Digital I/O PCB
- ☐ Demand PCB
- ☐ Smart grid
- ☐ WLAN cartridge
- ☐ Bypass kit
- ☐ ON/OFF thermostat (wired)
- ☐ ON/OFF thermostat (wireless)
 - ☐ Ext. thermistor
- ☐ Heat pump convactor
- ☐ ON/OFF thermostat (wired)
- ☐ ON/OFF thermostat (wireless)
 - ☐ Ext. thermistor
- ☐ Heat pump convactor

Main LWT:

Add LWT:

POSITION IN SWITCH BOX



NOTE

1. Connection point of the power supply for the backup heater & booster heater should be foreseen outside the unit.

LEGEND

Part n°	Description	Part n°	Description
A1P	main PCB	PC (A15P)	* power circuit
A2P	* ON/OFF thermostat (PC=power circuit)	PHC1 (A4P)	* optocoupler input circuit
A3P	* heat pump convactor	Q1L	thermal protector backup heater
A4P	* digital I/O PCB	Q2L	* thermal protector booster heater
A8P	* demand PCB	Q4L	# safety thermostat
A11P	MMI main PCB	Q*DI	# earth leakage circuit breaker
A13P	* LAN adapter	R1H (A2P)	* humidity sensor
A14P	* user interface PCB	R1T (A1P)	outlet water heat exchanger thermistor
A15P	* receiver PCB (wireless ON/OFF thermostat)	R1T (A2P)	* ambient sensor ON/OFF thermostat
B1L	flow sensor	R1T (A14P)	* ambient sensor user interface
B1PW	water pressure sensor	R2T (A1P)	internal BUH sensor
CN* (A4P)	* connector	R2T (A2P)	* external sensor (floor or ambient)
DS1 (A8P)	* dipswitch	R3T	refrigerant liquid side thermistor
E3H	backup heater element (3 kW)	R4T	inlet water thermistor
E5H	* booster heater element (2.4 kW)	R5T	* domestic hot water thermistor
E6H	PHE heater (50 W)	R6T	* external indoor or outdoor ambient thermistor
E7H	OP10 heater (33 W)	S1L	* flow switch
E8H	OP10 heater (50 W)	S1S	# preferential kWh rate P5 contact
E9H	expansion vessel heater (50 W)	S*T	thermostat
E10H	expansion vessel flex heater (15.6 W)	S2S	# electrical meter pulse input 1
E11H, E12H	PHE heater IN/OUT (33 W)	S3S	# electrical meter pulse input 2
E*P (A9P)	indication LED	S4S	# smartgrid feed-in
F1B	# overcurrent fuse backup heater	S6S-S9S	* digital power limitation inputs
F1T	thermal fuse backup heater	S10S-S11S	# low voltage smartgrid contact
F2B	# overcurrent fuse booster heater	SS1 (A4P)	* selector switch
F2T	thermal fuse booster heater	SW1~2 (A11P)	turn buttons
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB	SW3~5 (A11P)	push button
FU1 (A1P)	fuse T 5 A 250 V for PCB	TR1	power supply transformer
K1A, K2A	* high voltage smartgrid relay	X4M	* booster heater power supply terminal strip
K1M	contactor backup heater	X6M, X8M	# power supply terminal strip client
K3M	* contactor booster heater	X9M	backup heater power supply terminal strip
K*R (A1P-A4P)	relay on PCB	X10M	* smartgrid power supply terminal strip
M1P	main supply pump	X*, X*A, X*Y	connector
M2P	# domestic hot water pump	X*M	terminal strip
M2S	# 2 way valve for cooling mode	Z*C	noise filter (ferrite core)
M3S	* 3 way valve for floorheating /domestic hot water		
M4S	* valve kit		
P1M	MMI display		

* : optional

: field supply

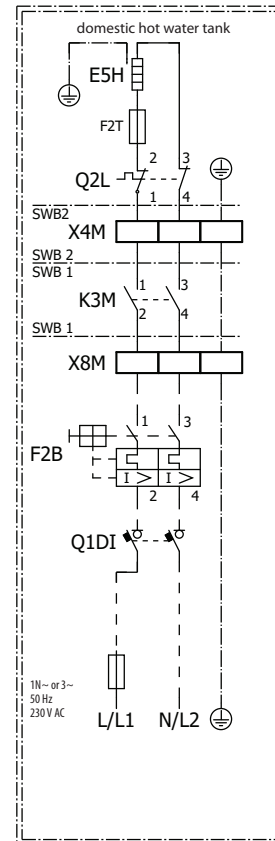
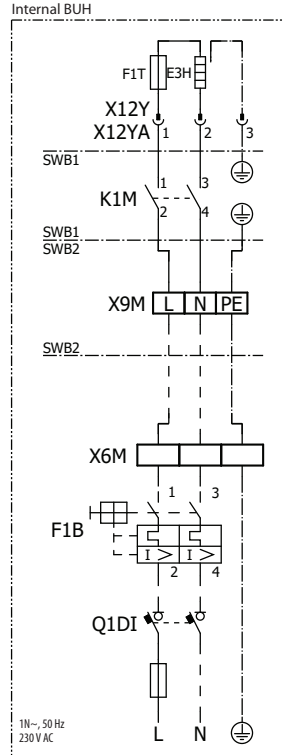
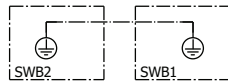
4D124072F

10 Wiring diagrams

10 - 7 Hydro Module - Power Supply, Back-up Heater

10

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

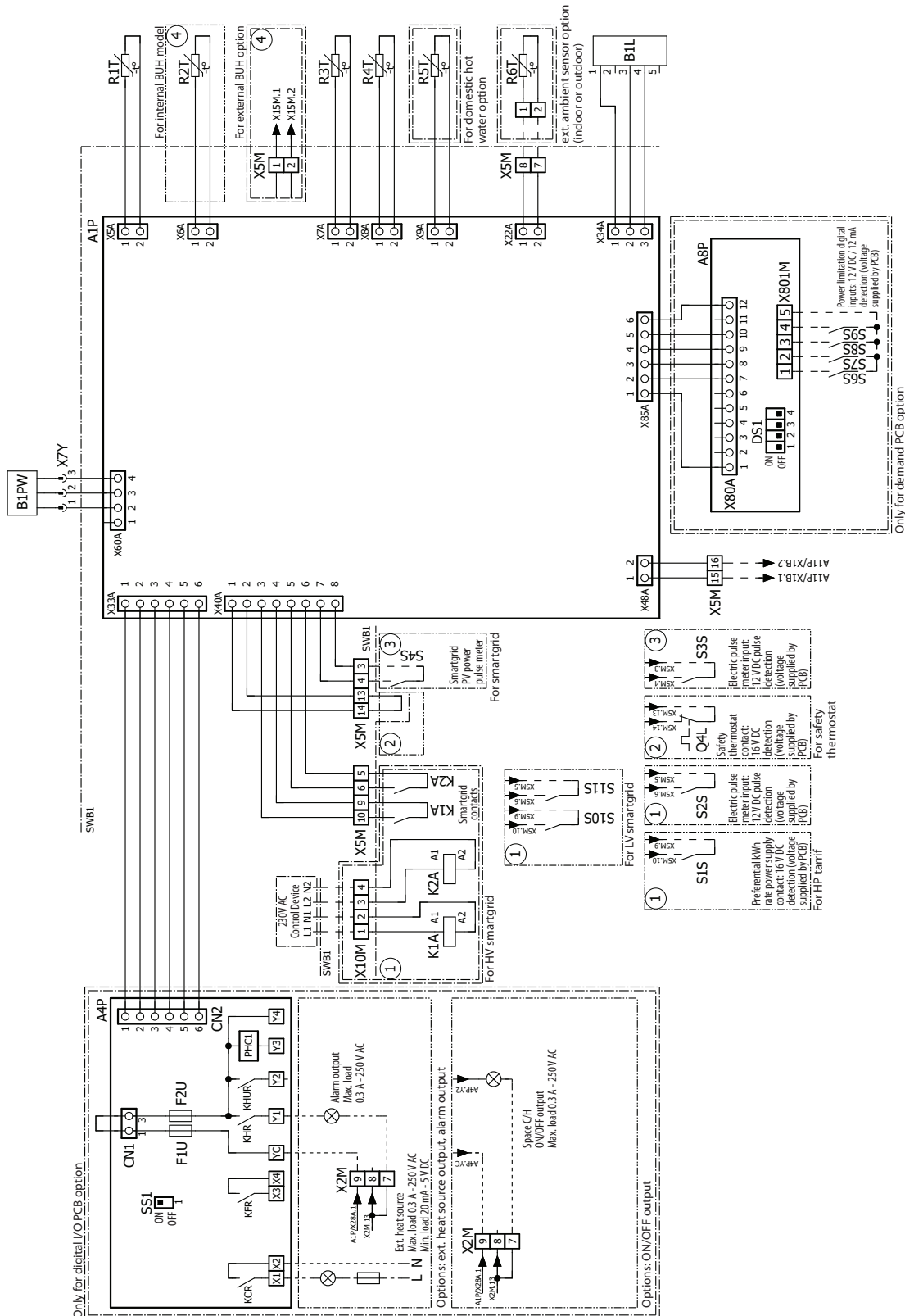


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10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



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10 - 8 Hydro Module - Control Circuit

10

The diagram illustrates the electrical connections for a Danfoss HVAC system, organized into several functional blocks:

- Main Control Unit (Top):** Features terminals for power supply (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100), communication (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100), and control signals (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100).
- Power Supply Section (Left):** Includes terminals for normal power supply (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100) and preferential kWh rate power supply (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100).
- Control and Sensor Section (Right):** Includes terminals for control signals (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100) and sensors (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100).
- Terminal Blocks (Bottom):** Includes terminals for power supply (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100) and communication (X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16, X17, X18, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28, X29, X30, X31, X32, X33, X34, X35, X36, X37, X38, X39, X40, X41, X42, X43, X44, X45, X46, X47, X48, X49, X50, X51, X52, X53, X54, X55, X56, X57, X58, X59, X60, X61, X62, X63, X64, X65, X66, X67, X68, X69, X70, X71, X72, X73, X74, X75, X76, X77, X78, X79, X80, X81, X82, X83, X84, X85, X86, X87, X88, X89, X90, X91, X92, X93, X94, X95, X96, X97, X98, X99, X100).

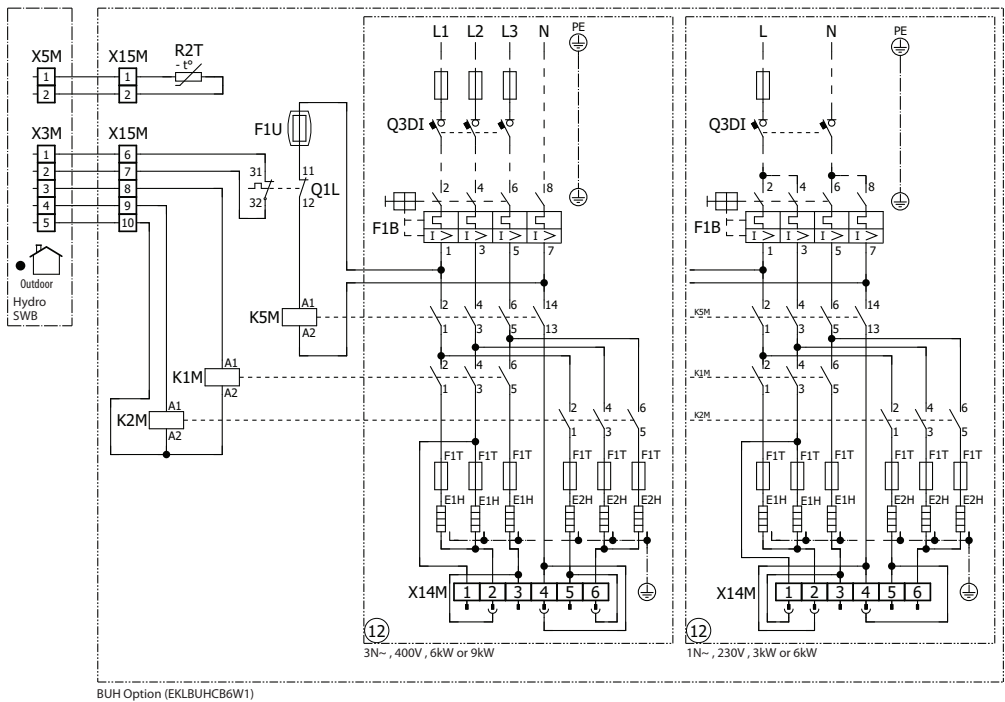
4D124072F

10 Wiring diagrams

10 - 9 External back-up heater - Option Circuit

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

(1) Connection diagram



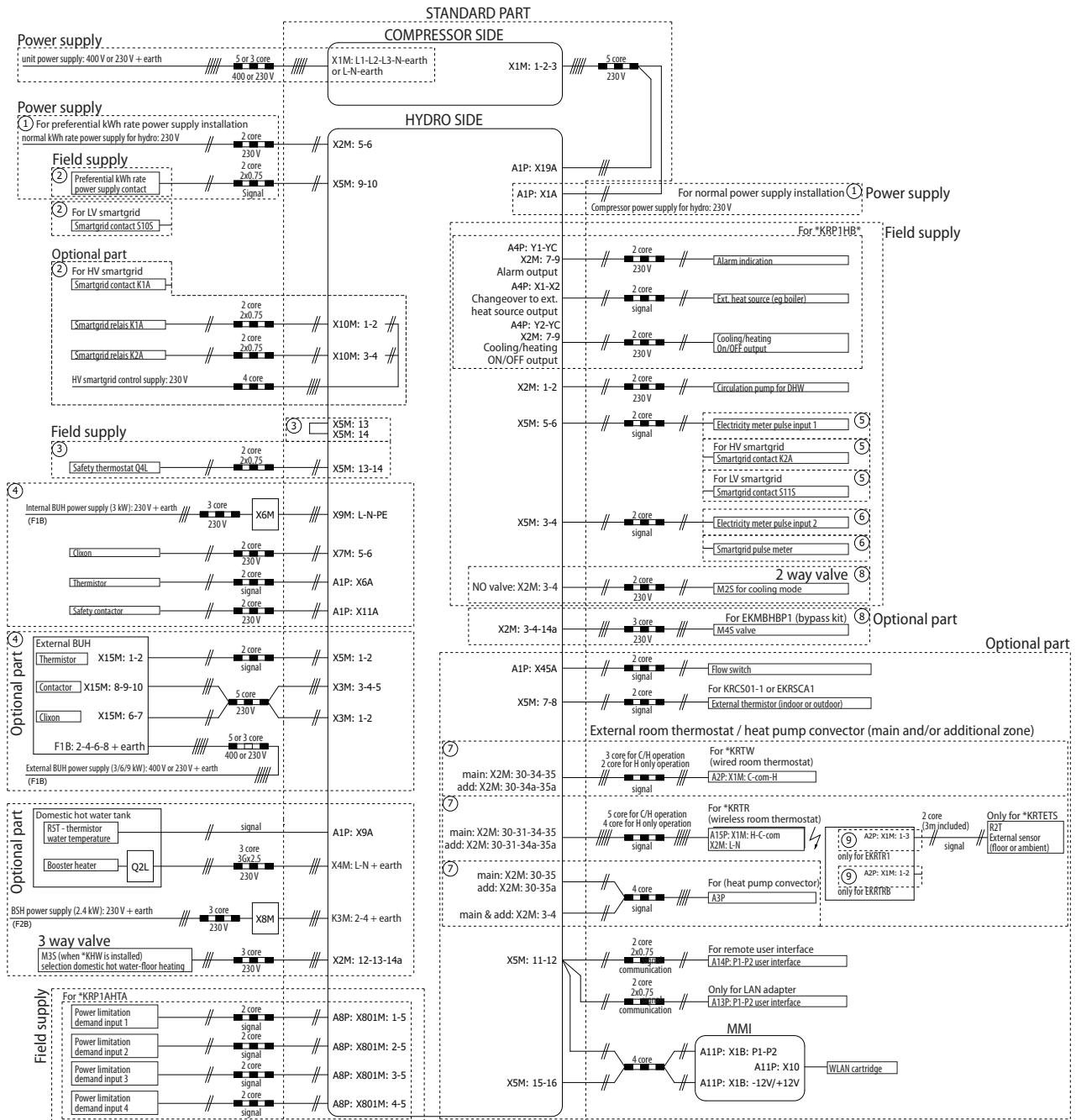
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11 External connection diagrams

11 - 1 External Connection Diagrams

11

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



NOTE

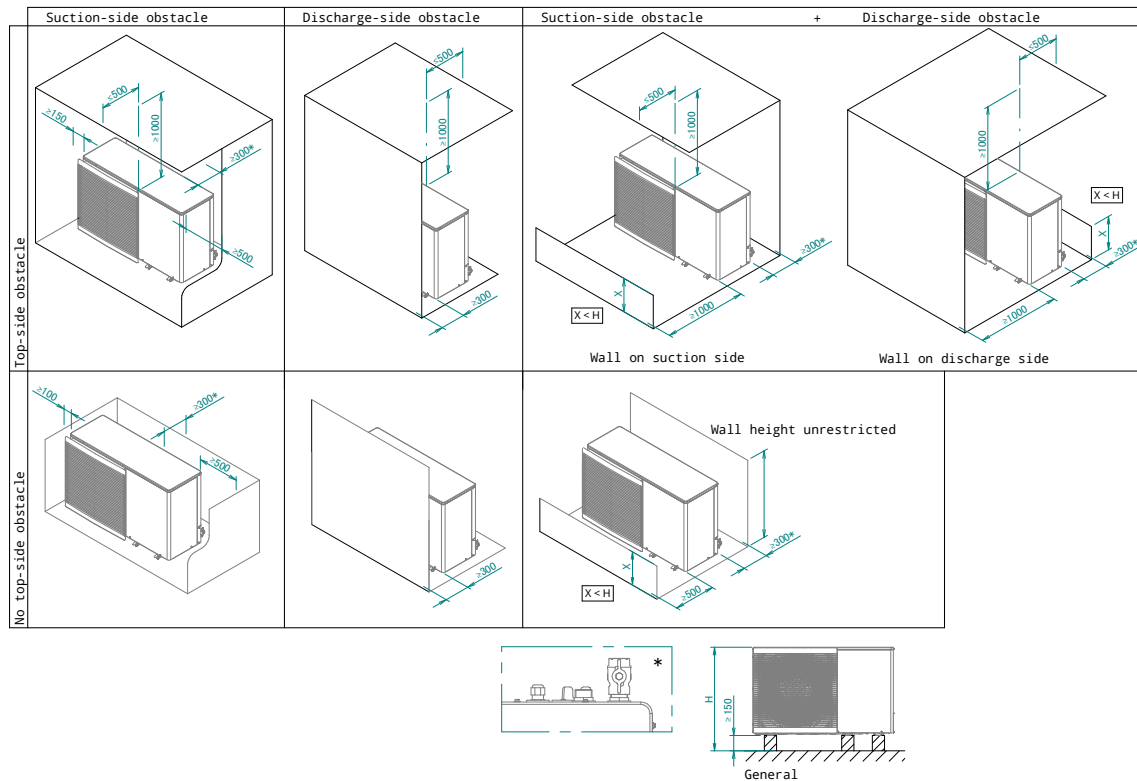
In case of signal cable: keep minimum distance to power cables > 5 cm

4D128841D

12 Installation

12 - 1 Installation Method

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17 / EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



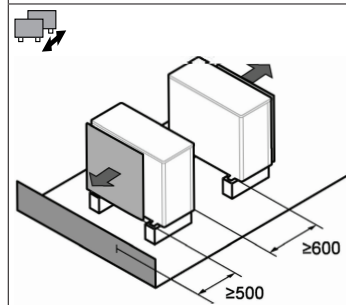
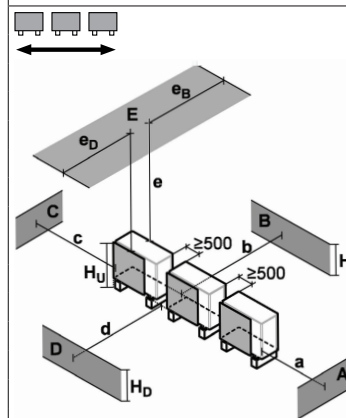
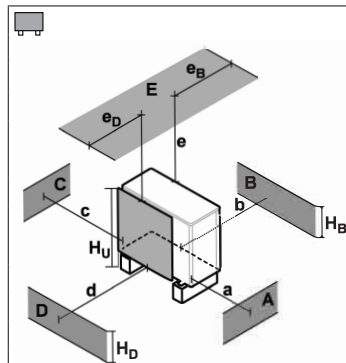
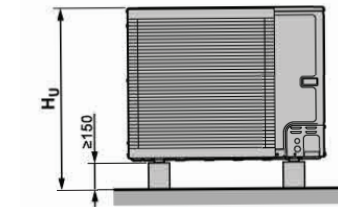
3D128957

12 Installation

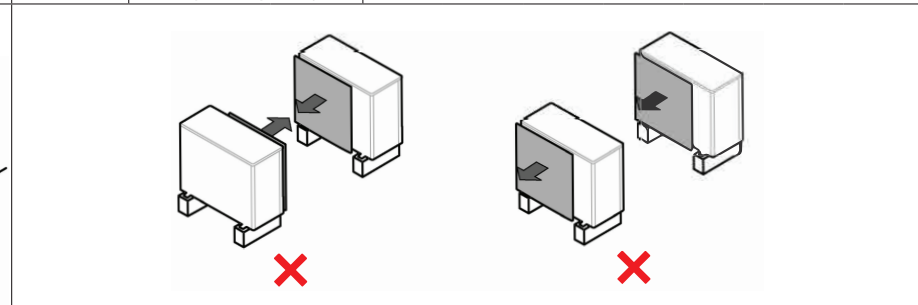
12 - 2 Installation Method in cascade applications

12

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



A~E	H _B H _D H _U	(mm)						
		a	b	c	d	e	eB	eD
B	-		≥300					
A, B, C	-	≥500	≥300	≥100				
B, E	-		≥300			≥1000		≤500
A, B, C, E	-	≥500	≥300	≥150		≥1000		≤500
D	-				≥500			
D, E	-				≥500	≥1000	≤500	
A, C	-	≥500		≥100				
B, D	(H _B or H _D) ≤ H _U		≥300		≥500			
	(H _B and H _D) > H _U							
B, D, E	(H _B or H _D) ≤ H _U H _B > H _D		≥300		≥1000	≥1000		≤500
	H _B > H _D		≥300		≥1000	≥1000	≥500	
	(H _B and H _D) > H _U							
A, C, D, E	-	≥500		≥150	≥500	≥1000	≤500	
A, B, C, D, E	(H _B or H _D) ≤ H _U H _B > H _D	≥500	≥300	≥150	≥1000	≥1000		≤500
	H _B > H _D	≥500	≥300	≥150	≥1000	≥1000	≤500	
	(H _B and H _D) > H _U							



3D142508

12 Installation

12 - 2 Installation Method in cascade applications

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Installation requirements for ·E(B/D)LA*DA*· units

Cascading outdoor units.

The installation layouts with multiple outdoor units shown in ·(1)· (side to side) and ·(2)· (front to back/back to front) are only allowed in combination with wall-mounted indoor units, NOT in combination with floor-standing indoor units.

Legend Symbols

A, C Obstacles (walls/baffle plates)

B Obstacles on the suction side

D Obstacles on the discharge side

E Obstacle (roof)

a, b, c, d, e Minimum service space between the unit and obstacles A, B, C, D and E

e_B Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B

e_D Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

H_u Height of the unit

H_b,H_d Height of obstacles B and D

✗ Not allowed



(2)



3D142508

13 Operation range

13 - 1 Operation Range

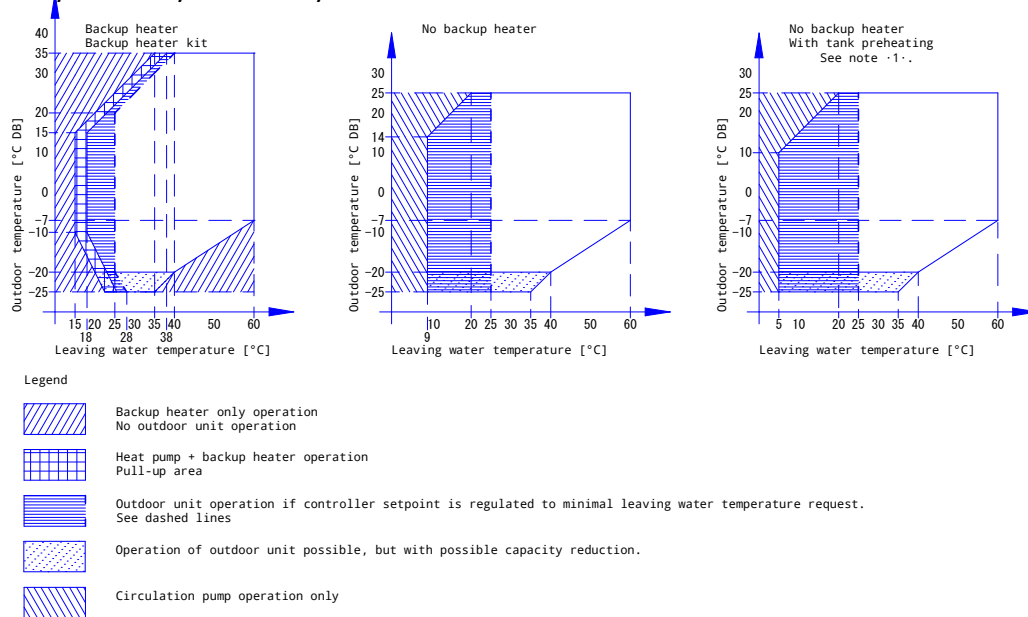
13

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1

EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1

EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17

EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



Notes

1. Tank preheating
For details, see the installer reference guide.
2. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
For more information, refer to the installation manual.
3. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

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EBLA09-14D3V3 / EBLA09-14DV3

EBLA09-14D3W1 / EBLA09-14DW1

EDLA09-14D3V3 / EDLA09-14DV3

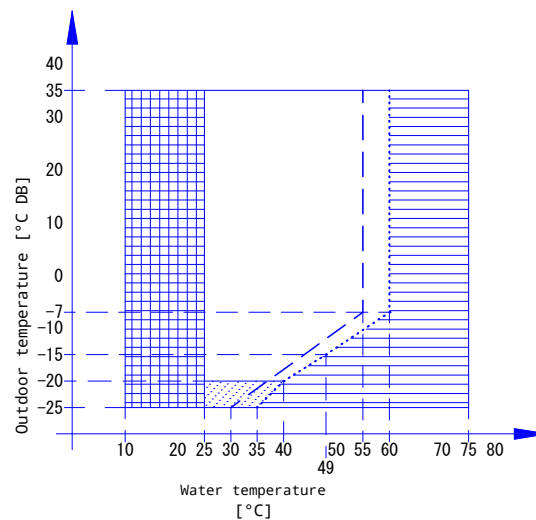
EDLA09-14D3W1 / EDLA09-14DW1

EBLA-D3V37 / EBLA-DV37

EBLA-D3W17 / EBLA-DW17

EDLA-D3V37 / EDLA-DV37

EDLA-D3W17 / EDLA-DW17



Legend

- Setpoint [°C]
- Domestic hot water
- Leaving water temperature [°C]
- Pull-up area
- Operation of outdoor unit possible, but with possible capacity reduction.
- Booster heater only operation (if a booster heater is part of the system)

Notes

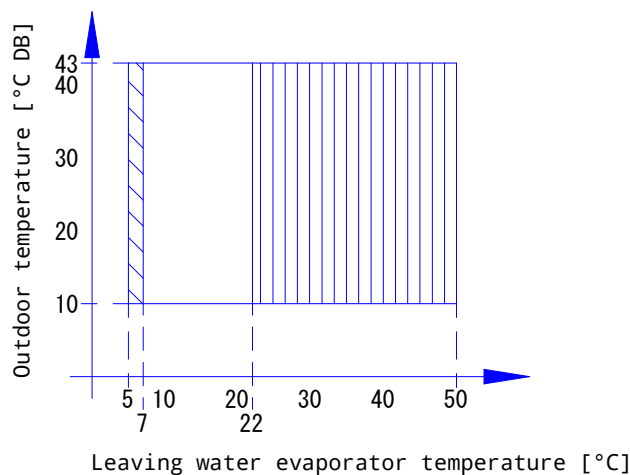
1. In restricted power supply mode (·EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as ·EKHWS*.
Coil surface > 1.05·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.
3. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
For more information, refer to the installation manual.

3D120989

13 Operation range

13 - 1 Operation Range

EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17



Legend



In case valve kit 'AFVALVE1' is part of the system, then the minimum setpoint is -7°C.



Pull-down area

Notes

1. For more information, refer to the installation manual.

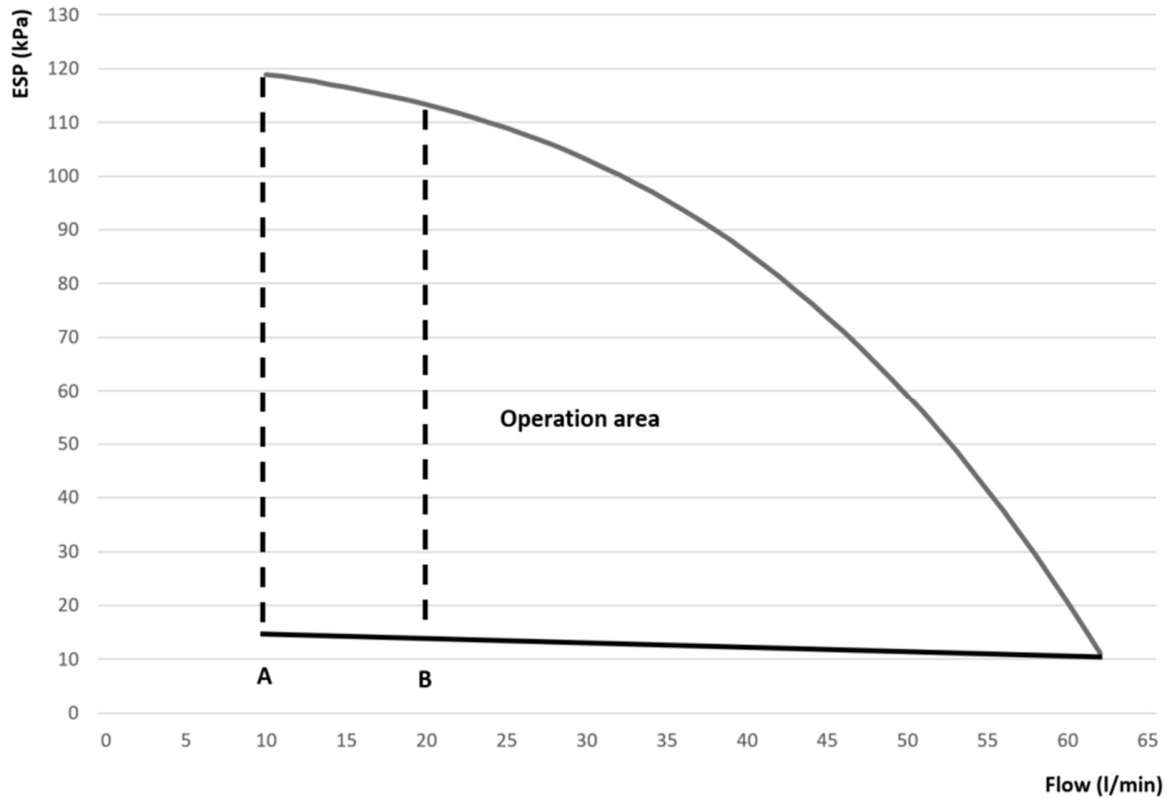
If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

3D130999

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1
EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17



ESP = External static pressure [kPa] Space heating/cooling circuit
Flow = Water/glycol flow through the unit Space heating/cooling circuit

A = Minimum water flow rate during normal operation
B = Minimum water flow rate during defrost operation

Notes

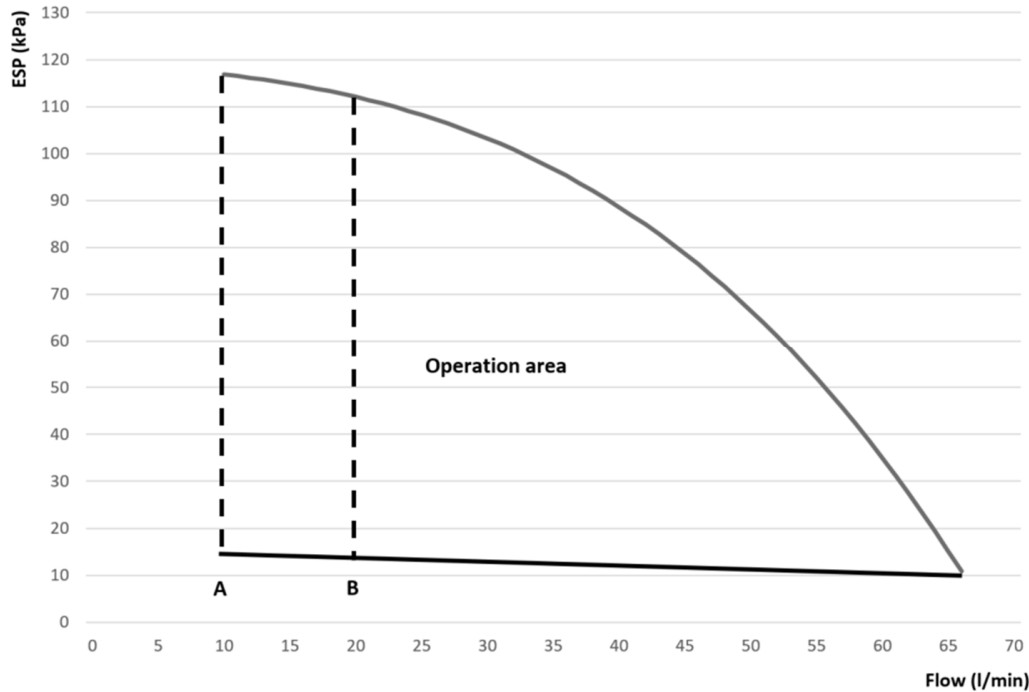
- The operation area is extended to lower flow rates only in case the unit operates with heat pump only, and the temperature of the flow medium is sufficiently high.
This does not apply to start-up operation, defrost operation, and backup heater operation in case a backup heater is installed.
See dashed lines
- The higher operation range limit is only valid if the flow medium is water. If glycol is added to the system, the limit is lower.
- Selecting a flow outside the operating area can damage the unit or cause the unit to
See also the minimum and maximum allowed water flow range in the technical specifications.

4D128961

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

EBLA09-14DV3 / EBLA09-14DW1 / EDLA09-14DV3 / EDLA09-14DW1 / EBLA-DV37 / EBLA-DW17 / EDLA-DV37 / EDLA-DW17



ESP = External static pressure [kPa] Space heating/cooling circuit
 Flow = Water/glycol flow through the unit Space heating/cooling circuit

A = Minimum water flow rate during normal operation
 B = Minimum water flow rate during defrost operation

Notes

1. The operation area is extended to lower flow rates only in case the unit operates with heat pump only, and the temperature of the flow medium is sufficiently high.

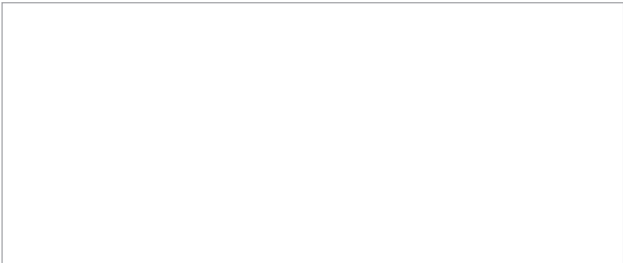
This does not apply to start-up operation, defrost operation, and backup heater operation in case a backup heater is installed.

See dashed lines

2. The higher operation range limit is only valid if the flow medium is water. If glycol is added to the system, the limit is lower.
3. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.

See also the minimum and maximum allowed water flow range in the technical specifications.

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EEDEN24

02/2024



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