

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

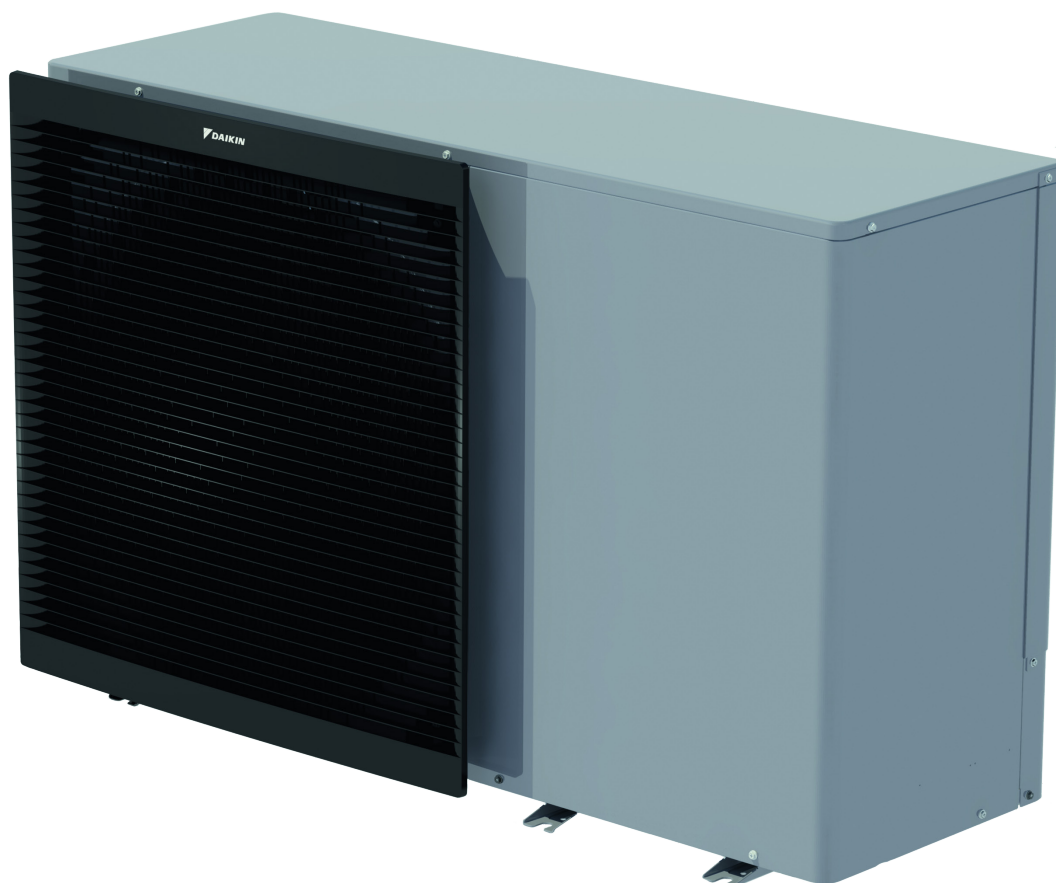


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1 Features

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	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		
	Fan	Type			Propeller fan		
Quantity				1			
Discharge direction				Horizontal			
Air flow rate		Heating	High	m ³ /min	48.0	55.8	70.4
	Cooling	High	m ³ /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*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			

2 Specifications

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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		W	180			
Water side Heat exchanger	Type		Plate heat exchanger				
	Quantity		1				
	Water volume		I	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			
Expansion vessel	Volume		I	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 (Manually)			
	Minimum water volume in the system		I	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	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				

2 Specifications

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Technical specifications			EBLA09DW1	EBLA11DW1	EBLA14DW1		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	5,404	6,134	6,651	
			η_s (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	
			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			

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°C-D- B/1°C CWB)	Cdh (Degradation heating)	COPd		2.12	2.18	2.17
			Pdh	kW	9.0		9.8
			PERd	%	84.8	87.2	86.8
			Cdh (Degradation heating)			1.0	
	C Condition (7°C-D- B/6°C CWB)	COPd			3.65	3.74	3.83
			Pdh	kW		6.2	7.6
			PERd	%	146.0	149.6	153.2
			Cdh (Degradation heating)			1.0	
	D Condition (12°C-D- B/11°C CWB)	COPd				5.68	5.69
			Pdh	kW		5.0	
			PERd	%		227.2	227.6
			Tbiv (bivalent tempera- ture)			2	
	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°C-D- B/-8°C CWB)			COPd		3.07	3.03	2.95
B Condition (2°C-D- B/1°C CWB)	Cdh (Degradation heating)	Pdh	kW	8.5	9.2	10.1	
		PERd	%	122.8	121.2	118.0	
					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		
			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	
		D Condition (12°CΔ- B/11°CWB)	PERd %	271.2	269.6	268.0
			Cdh (Degradation heating)	1.0		
			COPd	8.75	8.54	8.65
		Tol (temperature operating limit)	Pdh kW	5.5	5.4	
			PERd %	350.0	341.6	346.0
			COPd	2.64	2.58	2.51
		Tbiv (bivalent temperature)	Pdh kW	8.3	10.1	11.2
			PERd %	105.6	103.2	100.4
			Tbiv °C	-9	-10	
	Rated heat output supplementary capacity	TOL °C	WTOL °C	35		
			COPd	2.75	2.58	2.51
			Pdh kW	8.7	10.1	11.2
	Cold climate water outlet 35°C	General	PERd %	110.0	103.2	100.4
			Tbiv °C	-9	-10	
			Psup (at Tdesign -10°C) kW	0.7	0.0	
	Warm 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	
	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)	COPd	1.0			
		Pdh kW	3.36	3.30	3.45	
		PERd %	9.0	10.3	10.8	
C Condition (7°CΔ- B/6°CWB)	Cdh (Degradation heating)	PERd %	134.4	132.0	138.0	
		COPd	1.0			
		Pdh kW	5.59	5.70	5.77	
	D Condition (12°CΔ- B/11°CWB)	Pdh kW	5.9	6.7	7.4	
		PERd %	223.6	228.0	230.8	
		Cdh (Degradation heating)	1.0			
Space heating 	Warm climate water outlet 35°C	D Condition (12°CΔ- B/11°CWB)	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	
Control systems	Class of temperature control	Tbiv °C	2			
		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	Voltage V	3N~		
			Min. %	400		
			Max. %	-10		
Power supply	Name	Phase	Frequency Hz	10		
			Voltage V	W1		
			Min. %	3~		
Voltage range	Max. %		Voltage V	50		
			Min. %	400		
			Max. %	-10		
				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		
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		
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)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

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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	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
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
	Air flow rate	Heating	High	m ³ /min	85.0	
Cooling		High	m ³ /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	
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			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	G1" (male)	
	Piping	inch	1-1/4"	
	Piping Max. length	OU - Tank m	10	
	Level Max. difference	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 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				EBLA16DW17		
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,359		
			η_s (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)		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			

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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
		C Condition (7°CDB/6°CWB)			Pdh	kW	9.8
					PERd	%	86.8
					Cdh (Degradation heating)		1.0
		D Condition (12°CDB/11°CWB)			COPd		3.73
	Pdh				kW	9.1	
	PERd				%	149.2	
	Average climate water outlet 35°C	General		Cdh (Degradation heating)		1.0	
				COPd		5.69	
				Pdh	kW	5.0	
				PERd	%	227.6	
				Tbiv (bivalent temperature)	°C	4	
	Average climate water outlet 35°C	General		COPd		2.51	
				Pdh	kW	12.1	
				PERd	%	100.4	
Tbiv				°C	4		
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		

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Technical specifications				EBLA16DW17
Space heating	Average climate water outlet 35°C	B Condition (2°C _{CD} -B/1°C _{CWB})	COPd	4.33
			Pdh kW	6.7
			PERd %	173.2
			Cdh (Degradation heating)	1.0
		C Condition (7°C _{CD} -B/6°C _{CWB})	COPd	6.83
			Pdh kW	4.7
			PERd %	273.2
			Cdh (Degradation heating)	1.0
		D Condition (12°C _{CD} -B/11°C _{CWB})	COPd	8.82
			Pdh kW	5.5
			PERd %	352.8
			Cdh (Degradation heating)	1.0
		Tol (temperature operating limit)	COPd	2.48
			Pdh kW	11.8
			PERd %	99.2
			TOL °C	-10
		Tbiv (bivalent temperature)	WTOL °C	35
			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	7,245	
		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°C _{CD} -B/1°C _{CWB})	Cdh (Degradation heating)	COPd	1.0	
		Pdh kW	3.30	
		PERd %	11.9	
		PERd %	132.0	
C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	COPd	1.0	
		Pdh kW	5.64	
		PERd %	8.1	
		PERd %	225.6	
Space heating	Warm climate water outlet 35°C	D Condition (12°C _{CD} -B/11°C _{CWB})	Cdh (Degradation heating)	1.0
			COPd	7.73
			Pdh kW	5.2
			PERd %	309.2
Tbiv (bivalent temperature)	COPd	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				EBLA16DW17
Compressor	Starting method			Inverter driven
Pump	Type			Grundfos UPMXL GEO 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			50
	Voltage			400
Voltage range	Min.			-10
	Max.			10

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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	
For connection with user interface	Quantity		4	
	Remark		0.75 mm ² till 1.25 mm ² (max length 200 m) 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	
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)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	Step1		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					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	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					
Fan	Type				Propeller fan						
	Quantity				1						
	Discharge direction				Horizontal						
	Air flow rate	Heating	High	m ³ /min	48.0	55.8		70.4			
Cooling			High	m ³ /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*l	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	Nom.	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		G1" (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			
	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)	m ³ /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
η_s (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)	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)	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)	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)	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		7.6	7.8	
	PERd		%	68.0	65.6	68.0		
	TOL		°C		-10			
	WTOL	°C		55				

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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		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	7,092	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°C CWB)	Cdh (Degradation heating)	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°C CWB)	Cdh (Degradation heating)	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°C CWB)	Cdh (Degradation heating)	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	
		Seasonal space heating eff. class				A+++	
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	
		A Condition (-7°CDB/-8°C 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°C-D B/-8°CWB)	PERd %	122.8	121.2	118.0
		B Condition (2°C-D B/1°CWB)	Cdh (Degradation heating)			1.0
	COPd			4.52	4.37	4.35
	Pdh kW			5.5		6.1
	C Condition (7°C-D B/6°CWB)	PERd %		180.8	174.8	174.0
		Cdh (Degradation heating)			1.0	
		COPd		6.78	6.74	6.70
	D Condition (12°C-D B/11°CWB)	Pdh kW		4.7	4.6	
		PERd %		271.2	269.6	268.0
		Cdh (Degradation heating)			1.0	
	Tol (temperature operating limit)	COPd		8.75	8.54	
		Pdh kW		5.5	5.4	
		PERd %		350.0	341.6	346.0
	Tbiv (bivalent temperature)	COPd		2.64	2.58	2.51
		Pdh kW		8.3	10.1	11.2
		PERd %		105.6	103.2	100.4
	Rated heat output supplementary capacity	TOL °C			-10	
		WTOL °C			35	
		COPd		2.75	2.58	2.51
	Cold climate water outlet 35°C	Pdh kW		8.7	10.1	11.2
		PERd %		110.0	103.2	100.4
		Tbiv °C		-9	-10	
	Warm climate water outlet 35°C	Psup (at Tdesign -10°C) kW		0.7	0.0	
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	
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°C-D B/1°CWB)	Cdh (Degradation heating)			1.0		
	COPd		3.36	3.30	3.45	
	Pdh kW		9.0	10.3	10.8	
C Condition (7°C-D B/6°CWB)	PERd %		134.4	132.0	138.0	
	Cdh (Degradation heating)			1.0		
	COPd		5.59	5.70	5.77	
D Condition (12°C-D B/11°CWB)	Pdh kW		5.9	6.7	7.4	
	PERd %		223.6	228.0	230.8	
	Cdh (Degradation heating)			1.0		
Tbiv (bivalent temperature)	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	
Control systems	Tbiv °C			2		
	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 GEO 25-125130 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	Type			3V3	
		Power	Phase		1~	
	current 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	
Wiring connections	Recommended fuses		A		16	
	Optional domestic hot water tank + Q2L	Quantity			3G	
	RST	Type of wires	Quantity			Minimum 2.5 mm ²
			Type of wires			2
	For connection with R6T	Quantity	Remark			Wire included in option EKHWS*
			Remark			2
	A3P	Type of wires	Quantity			Minimum 0.75 mm ²
			Type of wires			4
	M2S	Type of wires	Quantity			Select diameter and type according to national and local regulations
			Type of wires			2
	M3S	Type of wires	Quantity			Select diameter and type according to national and local regulations
			Type of wires			3
	Wiring connections	Quantity	Type of wires			2
Type of wires					Wire included in option EKFLSW1	
For power supply	Quantity	Remark			4G	
		Remark			See installation manual outdoor unit	
For connection with user interface	Quantity	Remark			4	
		Type of wires			0.75 mm ² till 1.25 mm ² (max length 200 m)	
Preferential kWh rate power supply	Quantity	Remark			0,75 ~1,25 mm ² (PIP2)	
		Remark			Power: 2	
Domestic hot water pump	Quantity	Remark			Power 6.3A	
		Remark			3	
Cable requirements	Cooling/ Heating output	Maximum running current	A		Minimum 0.75 mm ²	
					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	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

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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		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
	Fan	Type				Propeller fan
Quantity					1	
Discharge direction					Horizontal	
Air flow rate		Heating	High	m ³ /min		85.0
	Cooling	High	m ³ /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	
	Type				Hermetically sealed swing compressor	
PED	Category				Category II	
	Most critical part	Name			Accumulator	
		Ps*V		Bar*l		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		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			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	
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	
	Minimum water volume in the system	l		20 (7)	
	Heater	W		66.0	
	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	
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)		m ³ /h	5,100
		Other	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	
	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		
			η_s (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)	Cdh (Degradation heating)	COPd	1.95
					Pdh kW	9.4
					PERd %	78.0
					Cdh (Degradation heating)	1.0
			B Condition (2°CDB)	Cdh (Degradation heating)	COPd	3.27
					Pdh kW	6.9
					PERd %	130.8
					Cdh (Degradation heating)	1.0
			C Condition (7°CDB)	Cdh (Degradation heating)	COPd	4.93
					Pdh kW	4.4
					PERd %	197.2
					Cdh (Degradation heating)	1.0
			D Condition (12°CDB)	Cdh (Degradation heating)	COPd	6.60
					Pdh kW	5.3
					PERd %	264.0
					Cdh (Degradation heating)	1.0
			Tol (temperature operating limit)	Cdh (Degradation heating)	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	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
				Cdh (Degradation heating)		1.0
				COPd		3.73
C Condition (7°CDB/6°CWB)			Pdh kW		9.1	
			PERd %		149.2	
			Cdh (Degradation heating)		1.0	
D Condition (12°CDB/11°CWB)			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	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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Technical specifications				EBLA16D3W17		
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/8°CWB)	PERd	%	114.8	
		B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			COPd			4.33
			Pdh			6.7
			PERd			173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0
			COPd			6.83
			Pdh			4.7
			PERd			273.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			COPd			8.82
			Pdh			5.5
			PERd			352.8
		Tol (temperature operating limit)	COPd			2.48
			Pdh			11.8
			PERd			99.2
			TOL			-10
			WTOL			35
		Tbiv (bivalent temperature)	COPd			2.48
			Pdh			11.8
			PERd			99.2
			Tbiv			-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)			0.0
		Cold climate water outlet 35°C	General	Annual energy consumption		7,245
ηs (Seasonal space heating efficiency)				160		
Prated at -22°C				12.0		
Qhe Annual energy consumption (GCV)				26		
Warm climate water outlet 35°C	General	Annual energy consumption		2,573		
		ηs (Seasonal space heating efficiency)		246		
		Prated at 2°C		12.0		
		Qhe Annual energy consumption (GCV)		9		
	B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd			3.30	
		Pdh			11.9	
	PERd			132.0		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
		COPd			5.64	
Space heating 	Warm climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Pdh		8.1	
			PERd		225.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			COPd			7.73
			Pdh			5.2
			PERd			309.2
		Tbiv (bivalent temperature)	COPd			3.30
			Pdh			11.9
			PERd			132.0
			Tbiv			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	400			
	Voltage range	Min.	-10			
		Max.	10			

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Electrical specifications				EBLA16D3W17	
Hydraulic component	Back-up heater	Type		3V3	
		Power	Phase	1~	
	current 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	
Wiring connections	Recommended fuses	A		16	
	Optional	Quantity		3G	
	domestic hot water tank + Q2L	Type of wires			Minimum 2.5 mm ²
			Quantity		2
	RST	Type of wires			Wire included in option EKHWS*
			Quantity		2
	For connection with R6T	Remark			Minimum 0.75 mm ²
			Quantity		2
	A3P	Type of wires			4
			Quantity		Select diameter and type according to national and local regulations
	M2S	Type of wires			2
			Quantity		Select diameter and type according to national and local regulations
	M3S	Type of wires			3
Quantity				Select diameter and type according to national and local regulations	
Wiring connections	Type of wires			2	
		Quantity		Wire included in option EKFLSW1	
	For power supply	Remark			4G
			Quantity		See installation manual outdoor unit
	For connection with user interface	Remark			4
			Quantity		0.75 mm ² till 1.25 mm ² (max length 200 m)
	Preferential kWh rate power supply	Remark			0,75 ~1,25 mm ² (P1P2)
Quantity				Power: 2	
Domestic hot water pump	Remark			Power 6.3A	
		Quantity		3	
Cable requirements	Maximum running current			Minimum 0.75 mm ²	
		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	

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2 - 1 Specifications

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				
	Packed unit			kg				
Packing	Material			PE wrapping foil / Carton / Wood (pallet)				
	Weight			kg				
Heat exchanger	Length			mm				
	Rows	Quantity			3			
	Fin pitch			mm				
	Passes	Quantity			14			
	Face area			m ²				
	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	m ³ /min	48.0	55.8	70.4	
	Cooling	High	m ³ /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				
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	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				
	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			
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				

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Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3	
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						
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					
	General	Supplier/ Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
Product description		Name or trademark		Daikin Europe N.V.			
		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	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				

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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	
			η_s (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	
			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			

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2 - 1 Specifications

Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3	
Space heating	Average climate water outlet 55°C	Tbiv	Pdh	kW	8.8	9.3	9.4
		(bivalent PERd	%	76.8	76.0	83.6	
		tempera- ture)	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°C-D- B/1°C CWB)	Cdh (Degradation heating)	COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
			Cdh (Degradation heating)			1.0	
	C Condition (7°C-D- B/6°C CWB)	COPd			3.65	3.74	3.83
			Pdh	kW		6.2	7.6
			PERd	%	146.0	149.6	153.2
			Cdh (Degradation heating)			1.0	
	D Condition (12°C-D- B/11°C CWB)	COPd			5.68		5.69
			Pdh	kW		5.0	
PERd			%	227.2		227.6	
Tbiv				2.12	2.18	2.40	
Tbiv (bivalent tempera- ture)	Pdh	kW		9.0	9.8	11.0	
		PERd	%	84.8	87.2	96.0	
		Tbiv	°C		2	3	
		Annual energy consumption	kWh	3,854	4,371	4,838	
Average climate water outlet 35°C	General	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°C-D- B/-8°C 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°C-D- B/1°C 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°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		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°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				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	V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Power supply	Name			V3		
	Phase			1~		
	Frequency			50		
Voltage range	Voltage			230		
	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		
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		
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)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	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
Fan	Type				Propeller fan	
	Quantity				1	
	Discharge direction				Horizontal	
	Air flow rate	Heating	High	m ³ /min	85.0	
Cooling		High	m ³ /min	85.0		
Fan motor	Quantity				1	
	Model				Brushless DC motor	
Fan motor	Speed	Steps	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	
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		G1" (male)	
	Piping	inch		1-1/4"	
	Piping Max. length	OU - Tank	m		10
	Level Max. difference		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 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			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
			η_s (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)	Cdh (Degradation heating)		1.0
			COPd		1.95
		B/-8°CWB)	Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CDB)	Cdh (Degradation heating)		1.0
			COPd		3.27
		B/1°CWB)	Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CDB)	Cdh (Degradation heating)		1.0
			COPd		4.93
		B/6°CWB)	Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CDB)	Cdh (Degradation heating)		1.0
			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
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
Cold climate water outlet 55°C	General	Tbiv		°C	-5
		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)		
C Condition (7°CDB/6°CWB)	COPd			2.17	
		Pdh		kW	9.8
		PERd		%	86.8
D Condition (12°CDB/11°CWB)	COPd			1.0	
		Pdh		kW	3.73
		PERd		%	9.1
Tbiv (bivalent temperature)	COPd			149.2	
		Pdh		kW	1.0
		PERd		%	5.69
Average climate water outlet 35°C	General	Tbiv		°C	2.51
		Annual energy consumption		kWh	12.1
		ηs (Seasonal space heating efficiency)		%	100.4
		Prated at -10°C		kW	4
		Qhe Annual energy consumption (GCV)		Gj	5,281
A Condition (-7°CDB/8°CWB)	COPd			185	
		Pdh		kW	12.0
		PERd		%	19
B Condition (2°CDB/1°CWB)	COPd			4.69	
		Seasonal space heating eff. class			A+++
B Condition (2°CDB/1°CWB)	COPd			2.87	
		Pdh		kW	11.2
		PERd		%	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	B Condition (2°C _{CD} -B/1°C _{CWB})	COPd	4.33	
			Pdh kW	6.7	
	35°C	C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	173.2	
			COPd	1.0	
			Pdh kW	6.83	
		D Condition (12°C _{CD} -B/11°C _{CWB})	PERd %	4.7	
			Cdh (Degradation heating)	273.2	
			COPd	1.0	
	Tol (temperature operating limit)	PERd %	Pdh kW	8.82	
			PERd %	5.5	
			PERd %	352.8	
		Tbiv (bivalent temperature)	TOL °C	Pdh kW	2.48
			WTOL °C	Pdh kW	11.8
			Tbiv °C	PERd %	99.2
	Rated heat output supplementary capacity	Tbiv (bivalent temperature)	Tbiv °C	-10	
			PERd %	35	
			WTOL °C	35	
		Cold climate water outlet 35°C	General	COPd	2.48
				Pdh kW	11.8
				PERd %	99.2
	Warm climate water outlet 35°C	General	Psup (at Tdesign -10°C) kW	-10	
			PERd %	35	
			WTOL °C	35	
		Annual energy consumption	General	Annual energy consumption kWh	2.48
ηs (Seasonal space heating efficiency) %				11.8	
Prated at -22°C kW				99.2	
Qhe Annual energy consumption (GCV)	General	Qhe Annual energy consumption (GCV) GJ	-10		
		Annual energy consumption kWh	35		
		ηs (Seasonal space heating efficiency) %	35		
B Condition (2°C _{CD} -B/1°C _{CWB})	Prated at 2°C kW	General	Prated at 2°C kW	7,245	
			Qhe Annual energy consumption (GCV) GJ	160	
			Qhe Annual energy consumption (GCV) GJ	26	
	C Condition (7°C _{CD} -B/6°C _{CWB})	Annual energy consumption kWh	General	Annual energy consumption kWh	2,573
				ηs (Seasonal space heating efficiency) %	246
				Prated at 2°C kW	12.0
D Condition (12°C _{CD} -B/11°C _{CWB})	Qhe Annual energy consumption (GCV) GJ	General	Qhe Annual energy consumption (GCV) GJ	9	
			Annual energy consumption kWh	12.0	
			ηs (Seasonal space heating efficiency) %	9	
Space heating 	Warm climate water outlet 35°C	D Condition (12°C _{CD} -B/11°C _{CWB})	Cdh (Degradation heating)	1.0	
			COPd	3.30	
			Pdh kW	11.9	
	Tbiv (bivalent temperature)	PERd %	General	PERd %	132.0
				Cdh (Degradation heating)	1.0
				COPd	5.64
Class of temperature control	Tbiv (bivalent temperature)	General	Pdh kW	8.1	
			PERd %	225.6	
			Tbiv °C	2	
Contribution to seasonal space heating efficiency	PERd %	General	PERd %	132.0	
			Tbiv °C	2	
Control systems	Contribution to seasonal space heating efficiency	General	Tbiv °C	2	
			PERd %	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	
	Voltage range	Min.	%	-10	
		Max.	%	10	
Power supply	Name		V3		
	Phase		1~		
	Frequency		Hz	50	
	Voltage		V	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	
	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	
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)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	Step1		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	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					
Fan	Type				Propeller fan						
	Quantity				1						
	Discharge direction				Horizontal						
	Air flow rate	Heating	High	m ³ /min	48.0	55.8		70.4			
Cooling			High	m ³ /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*l	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	Nom.	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	G1" (male)			
	Piping		inch	1-1/4"			
	Piping Max. length	OU - Tank	m	10			
	Level Max. difference		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/ 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			
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						
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	2,880	3,350	4,220	
		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	5,404	6,134
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
			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	
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)		1.0			
		COPd		4.80	4.81	4.88	
		Pdh	kW		4.4		
D Condition (12°CDB/11°CWB)		PERd	%	192.0	192.4	195.2	
		Cdh (Degradation heating)		1.0			
		COPd		6.45	6.41	6.58	
		Pdh	kW		5.3		
Tol (temperature operating limit)	PERd	%	258.0	256.4	263.2		
	COPd		1.70	1.64	1.70		
	Pdh	kW		7.6			
	PERd	%	68.0	65.6	68.0		
	TOL	°C	-10				
	WTOL	°C	55				

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

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Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3		
Space heating	Average climate water outlet 35°C	A Condition (-7°C-D B/-8°CWB)	PERd	%	122.8	121.2	118.0	
			Cdh (Degradation heating)				1.0	
			COPd		4.52	4.37	4.35	
		B Condition (2°C-D B/1°CWB)	Pdh	kW		5.5		6.1
			PERd	%	180.8	174.8	174.0	
			C Condition (7°C-D B/6°CWB)				1.0	
		C Condition (7°C-D B/6°CWB)	COPd		6.78	6.74	6.70	
			Pdh	kW	4.7		4.6	
			PERd	%	271.2	269.6	268.0	
		D Condition (12°C-D B/11°CWB)	Cdh (Degradation heating)				1.0	
			COPd		8.75	8.54	8.65	
			Pdh	kW	5.5		5.4	
		Tol (temperature operating limit)	PERd	%	350.0	341.6	346.0	
			COPd		2.64	2.58	2.51	
			Pdh	kW	8.3	10.1	11.2	
		Tbiv (bivalent temperature)	PERd	%	105.6	103.2	100.4	
			TOL	°C		-10		
			WTOL	°C		35		
		Rated heat output supplementary capacity	COPd		2.75	2.58	2.51	
			Pdh	kW	8.7	10.1	11.2	
			PERd	%	110.0	103.2	100.4	
		Cold climate water outlet 35°C	Tbiv	°C	-9		-10	
			Psup (at Tdesign -10°C)	kW	0.7		0.0	
			General					
Warm 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		
B Condition (2°C-D B/1°CWB)	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		
C Condition (7°C-D B/1°CWB)	B Condition (2°C-D B/1°CWB)	Cdh (Degradation heating)				1.0		
		COPd		3.36	3.30	3.45		
		Pdh	kW	9.0	10.3	10.8		
C Condition (7°C-D B/1°CWB)	C Condition (7°C-D B/1°CWB)	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°C-D B/11°CWB)	Pdh	kW	5.9	6.7	7.4	
			PERd	%	223.6	228.0	230.8	
			Cdh (Degradation heating)				1.0	
Tbiv (bivalent temperature)	D Condition (12°C-D B/11°CWB)	COPd		7.87		7.73		
		Pdh	kW		5.2			
		PERd	%	314.8		309.2		
Control systems	Class of temperature control	COPd		3.36	3.30	3.45		
		Pdh	kW	9.0	10.3	10.8		
		PERd	%	134.4	132.0	138.0		
Contribution to seasonal space heating efficiency	Class of temperature control	Tbiv	°C	2				
						VI		
				4				
Electrical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3		
Compressor	Starting method			Inverter driven				
Pump	Type			Grundfos UPMXL GEO 25-125130 PWM				
Compressor component	Main power supply	Phase		1~				
		Voltage	V	230				
		Voltage range	Min.	-10				
		Max.	10					

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Electrical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Hydraulic component	Back-up heater	Type			3V3	
		Power	Phase		1~	
	current 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	Type of wires			3G	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	
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 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			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

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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			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
	Fan	Type				Propeller fan
Quantity					1	
Discharge direction					Horizontal	
Air flow rate		Heating	High	m ³ /min	85.0	
	Cooling	High	m ³ /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	
	Type				Hermetically sealed swing compressor	
PED	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	
	Domestic hot water	Ambient	Min.	°CDB	-25	
			Max.	°CDB	35	
		Water side	Min.	°C	25	
			Max.	°C	55 (6)	
		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	
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	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	
Water filter	Heater	W		65	
	Diameter perforations	mm		0.8	
Water circuit	Material			Stainless steel	
	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/ 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		
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)		m ³ /h	5,100
		Other	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	
	Integrated supplementary heater	Type of energy input			Electrical

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Technical specifications			EBLA16D3V37			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,359	
			η_s (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)	Cdh (Degradation heating)		1.0	
			COPd		1.95	
			Pdh	kW	9.4	
			PERd	%	78.0	
		B Condition (2°CDB)	Cdh (Degradation heating)		1.0	
			COPd		3.27	
			Pdh	kW	6.9	
			PERd	%	130.8	
		C Condition (7°CDB)	Cdh (Degradation heating)		1.0	
			COPd		4.93	
			Pdh	kW	4.4	
			PERd	%	197.2	
		D Condition (12°CDB)	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			

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Technical specifications				EBLA16D3V37
Space heating Average climate water outlet 55°C Cold climate water outlet 55°C Warm climate water outlet 55°C Average climate water outlet 35°C	Rated heat output supplementary capacity T _{biv} (bivalent temperature)	P _{sup} (at T _{design} -10°C)	kW	4.1
		COP _d		2.13
		P _d	kW	10.1
		PER _d	%	85.2
	General Annual energy consumption η _s (Seasonal space heating efficiency) Prated at -22°C Q _{he} Annual energy consumption (GCV)	T _{biv}	°C	-5
		Annual energy consumption	kWh	9,599
		η _s (Seasonal space heating efficiency)	%	120
		Prated at -22°C	kW	12.0
	General Annual energy consumption η _s (Seasonal space heating efficiency) Prated at 2°C Q _{he} Annual energy consumption (GCV)	Q _{he} Annual energy consumption (GCV)	Gj	35
		Annual energy consumption	kWh	4,418
		η _s (Seasonal space heating efficiency)	%	168
		Prated at 2°C	kW	14.1
	B Condition (2°CDB/1°CWB)	Q _{he} Annual energy consumption (GCV)	Gj	16
		C _{dh} (Degradation heating)		1.0
		COP _d		2.17
	C Condition (7°CDB/6°CWB)	P _d	kW	9.8
		PER _d	%	86.8
		C _{dh} (Degradation heating)		1.0
	D Condition (12°CDB/11°CWB)	COP _d		3.73
		P _d	kW	9.1
		PER _d	%	149.2
	T _{biv} (bivalent temperature)	C _{dh} (Degradation heating)		1.0
		COP _d		5.69
		P _d	kW	5.0
	T _{biv} (bivalent temperature)	PER _d	%	227.6
		COP _d		2.51
		P _d	kW	12.1
General Annual energy consumption η _s (Seasonal space heating efficiency) Prated at -10°C Q _{he} Annual energy consumption (GCV)	PER _d	%	100.4	
	T _{biv}	°C	4	
	Annual energy consumption	kWh	5,281	
General Annual energy consumption η _s (Seasonal space heating efficiency) Prated at -10°C Q _{he} Annual energy consumption (GCV)	η _s (Seasonal space heating efficiency)	%	185	
	Prated at -10°C	kW	12.0	
	Q _{he} Annual energy consumption (GCV)	Gj	19	
A Condition (-7°CDB/-8°CWB)	SCOP		4.69	
	Seasonal space heating eff. class		A+++	
A Condition (-7°CDB/-8°CWB)	COP _d		2.87	
	P _d	kW	11.2	

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Technical specifications				EBLA16D3V37		
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/8°CWB)	PERd	%	114.8	
		B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			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			11.8
			PERd			99.2
			TOL			-10
			WTOL			35
		Tbiv (bivalent temperature)	COPd			2.48
			Pdh			11.8
			PERd			99.2
			Tbiv			-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)			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/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd			3.30	
		Pdh	kW		11.9	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
		COPd			5.64	
		Pdh	kW		8.1	
Space heating	Warm climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%	225.6	
			D Condition (12°CDB/11°CWB)			1.0
		D Condition (12°CDB/11°CWB)	COPd			7.73
			Pdh	kW		5.2
			PERd	%		309.2
		Tbiv (bivalent temperature)	COPd			3.30
			Pdh			11.9
			PERd			132.0
Tbiv			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		1~		
		Voltage	V	230		
	Voltage range	Min.	%		-10	
		Max.	%		10	

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Electrical specifications				EBLA16D3V37
Hydraulic component	Back-up heater	Type		3V3
		Power	Phase	1~
	current supply	Frequency	Hz	50
		Voltage	V	230
		Running current	Back-up heater	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	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
	RST	Quantity		2
		Type of wires		Minimum 2.5 mm ²
	For connection with R6T	Quantity		2
		Remark		Wire included in option EKHWS*
	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 (PIP2)
	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				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			
	Packed unit				147			
Packing	Material				PE wrapping foil / Carton / Wood (pallet)			
	Weight				17			
Heat exchanger	Length				1,136 /1,166 /1,195			
	Rows	Quantity			3			
	Fin pitch				1.4			
	Passes	Quantity			13			
	Face area				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				
Fan motor	Air flow rate	Heating	High	m ³ /min	48.0	55.8	70.4	
	Quantity			1				
Compressor	Model			Brushless DC motor				
	Speed	Steps			8			
		Heating	Nom.	rpm	400	450	550	
	Output			W				
	Drive			234				
Compressor	Type			Direct drive				
Compressor	Quantity			1				
PED	Model			2Y350BPAY1P#C				
	Type			Hermetically sealed swing compressor				
	Category			Category II				
Operation range	Most critical part	Name			Accumulator			
	Heating	Ambient	Min.	°CDB	159			
			Max.	°CDB	-25			
	Water side	Min.			°C			
			Max.			°C		
	Domestic hot water	Ambient	Min.			°CDB		
			Max.			°CDB		
Water side		Min.			°C			
	Max.				°C			
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				

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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)			
Minimum water volume in the system			l	50 (4)				
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								
Space heating general	Air to water unit	Rated airflow (outdoor)		m ³ /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


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Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1	
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	
	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		6.8	7.6	7.8	
		PERd %		192.0	192.4	195.2	
	Tol (tem- perature operating limit)	Cdh (Degradation heating)			1.0		
		COPd		6.45	6.41	6.58	
		Pdh kW		258.0	256.4	263.2	
		PERd %		1.70	1.64	1.70	
		TOL °C		6.8	7.6	7.8	
	Rated heat output sup- plementary capacity	WTOL °C		68.0	65.6	68.0	
		Psup (at Tdesign -10°C) kW		2.2	2.4	3.2	
		Tbiv (bivalent tempera- ture)	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	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		

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

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Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1		
Space heating 35°C	Average climate water outlet	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW %	8.3 105.6	10.1 103.2	11.2 100.4	
			Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %	2.75 8.7 110.0 -9	2.58 10.1 103.2	2.51 11.2 100.4
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	-10 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-D- B/1°CWB)	Cdh (Degradation heating)	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-D- B/6°CWB)	Cdh (Degradation heating)	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-D- B/11°CWB)	Cdh (Degradation heating)	COPd			7.87	7.73		
		Pdh	kW		5.2			
		PERd	%		314.8			
Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv		kW %	3.36 9.0 134.4	3.30 10.3 132.0	3.45 10.8 138.0		
					2			
					4			
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	
			Min. range	%		-10	
			Max. range	%		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				EDLA09DW1	EDLA11DW1	EDLA14DW1
Wiring connections	Optional domestic hot water tank + Q2L	Quantity			3G	
		Type of wires			Minimum 2.5 mm ²	
		RST	Quantity		2	
	For connection with R6T	Type of wires			Wire included in option EKHWS*	
		Quantity			2	
	A3P	Remark			Minimum 0.75 mm ²	
		Quantity			4	
	M2S	Type of wires			Select diameter and type according to national and local regulations	
		Quantity			2	
	M3S	Type of wires			Select diameter and type according to national and local regulations	
		Quantity			3	
	For power supply	Type of wires			Select diameter and type according to national and local regulations	
		Quantity			2	
	For connection with user interface	Type of wires			Wire included in option EKFLSW1	
		Quantity			4G	
	Preferential kWh rate power supply	Remark			See installation manual outdoor unit	
		Quantity			4	
Domestic hot water pump	Remark			0.75 mm ² till 1.25 mm ² (max length 200 m)		
	Type of wires			0,75 ~1,25 mm ² (P1P2)		
Wiring connections	Power: 2					
	Remark			Power 6.3A		
Cable requirements	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				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	m ³ /min	85.0
Fan motor	Quantity			1	
	Model			Brushless DC motor	
	Speed	Steps			8
		Heating	Nom.	rpm	650
	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	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	76.7
	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	G1" (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 (4)
	Heater			W	66.0

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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)		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		
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	
		SCOP			3.33	
Space heating 	Average climate water outlet 55°C	General	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		
		Annual energy consumption		kWh	4,519	
Warm climate water outlet 55°C	General	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°CWB)	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		
	D Condition (12°CΔ- B/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd		5.69		
		Pdh	kW	5.0		
	Tbiv (bivalent temperature)	PERd			227.6	
		COPd			2.51	
		Pdh		kW	12.1	
		PERd		%	100.4	
	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°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			
Tol (temperature operating limit)	COPd			8.82		
	Pdh		kW	5.5		
	PERd		%	352.8		
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 Pdh PERd Tbiv	kW % °C	3.30 11.9 132.0 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 GEO 25-125 130 PWM	
Compressor component	Main power supply	Phase		3N~	
		Voltage	V	400	
	Voltage range	Min. Max.	% %	-10 10	
Power supply	Name			W1	
	Phase			3~	
	Frequency			50	
	Voltage			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
	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	
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	
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	m ³ /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	Accumulator				
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
	Water side	Min.	°C	15 (3)			
			°C	60 (3)			
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
	Water side	Min.	°C	25			
			°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						
Safety devices	Item	01	Inverter controlled				
		02	High pressure switch				
		03	Low pressure switch				
		04	Fan driver overload protector				
		05	Fuse				
Pump	Quantity	1					
	Nr of speeds	PWM					
	Nominal ESP	Heating	unit	kPa	106.9	102.7	96.5
	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)
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		

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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)	m ³ /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	
			Prated at -10°C	kW	9.0	10.0	11.0	
Space heating	Average climate water outlet 55°C	General	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	
				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
	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		
		Prated at 2°C	kW	9.0	10.0	12.1		
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)	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 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	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)	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°CDB/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		2.58	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)	General	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)	General	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)	General	Cdh (Degradation heating)			1.0			
		COPd			7.87	7.73		
		Pdh	kW			5.2		
		PERd	%		314.8			
	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 GE0 25-125 130 PWM		
Compressor component	Main power supply	Phase			3N~		
		Voltage	V		400		
		Voltage range	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	
Power supply	Wiring connections			Select diameter and type according to national and local regulations			
	Name				W1		
	Phase				3~		
	Frequency	Hz			50		
	Voltage	V			400		
Voltage range	Min.	%			-10		
	Max.	%			10		

2 Specifications

2 - 1 Specifications

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) 0.75 ~1.25 mm ² (P1P2)	
	Preferential kWh rate power supply	Quantity			Power: 2	
		Remark			Power 6.3A	
Wiring connections	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

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

2 - 1 Specifications

Technical specifications					EDLA16D3W17
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m ³ /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	-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
	Power input				W
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
	Water volume				l
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (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
	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				EDLA16D3W17		
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)		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		
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	

2 Specifications

2 - 1 Specifications

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 _{CWB})	Cdh (Degradation heating)	1.0	
			COPd	2.17	
			Pdh kW	9.8	
			PERd %	86.8	
		C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	1.0	
			COPd	3.73	
			Pdh kW	9.1	
			PERd %	149.2	
		D Condition (12°C _{CD} -B/11°C _{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	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 _{CWB})	COPd	2.87	
			Pdh kW	11.2	
			PERd %	114.8	
		B Condition (2°C _{CD} -B/1°C _{CWB})	Cdh (Degradation heating)	1.0	
		COPd	4.33		
		Pdh kW	6.7		
	PERd %	173.2			
C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	1.0			
	COPd	6.83			
	Pdh kW	4.7			
	PERd %	273.2			
D Condition (12°C _{CD} -B/11°C _{CWB})	Cdh (Degradation heating)	1.0			
	COPd	8.82			
	Pdh kW	5.5			

2 Specifications

2 - 1 Specifications

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
		Tbiv (bivalent temperature)	PERd	%	99.2	
			TOL	°C	-10	
			WTOL	°C	35	
		Rated heat output supplementary capacity	Tbiv	COPd		2.48
			Pdh	kW	11.8	
			PERd	%	99.2	
		Cold climate water outlet 35°C	General	Tbiv	°C	-10
				Psup (at Tdesign -10°C)	kW	0.0
				Annual energy consumption	kWh	7,296
				ηs (Seasonal space heating efficiency)	%	159
		Warm climate water outlet 35°C	General	Prated at -22°C	kW	12.0
				Qhe Annual energy consumption (GCV)	Gj	26
	Annual energy consumption			kWh	2,675	
	ηs (Seasonal space heating efficiency)			%	237	
	B Condition (2°CDB/1°CWB)		Prated at 2°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	10	
			Cdh (Degradation heating)		1.0	
	C Condition (7°CDB/6°CWB)		COPd		3.30	
			Pdh	kW	11.9	
			PERd	%	132.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
		COPd		5.64		
		Pdh	kW	8.1		
	Control systems	Class of temperature control	PERd	%	225.6	
Cdh (Degradation heating)				1.0		
COPd				7.73		
Pdh			kW	5.2		
PERd			%	309.2		
Tbiv			COPd		3.30	
Control systems	Contribution to seasonal space heating efficiency	Pdh	kW	11.9		
		PERd	%	132.0		
		Tbiv	°C	2		
				VI		
				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		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Hydraulic component	Back-up heater current	Type		3V3		
		Power supply	Phase		1~	
			Frequency	Hz	50	
	Running current	Voltage	V	230		
		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		

2 Specifications

2 - 1 Specifications

2

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) 0.75 ~1.25 mm ² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
Cable requirements	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

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			
Fan motor	Air flow rate	Heating	High	m ³ /min	48.0	55.8	70.4
	Quantity			1			
	Model			Brushless DC motor			
	Speed	Steps			8		
		Heating	Nom.		rpm	400	450
	Output			W	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*l	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	106.5	102.9	97.6
	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)
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	G1" (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 (4)		
	Heater			W	66.0		


2 Specifications

2 - 1 Specifications

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)	m ³ /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
			SCOP		3.39	3.32	3.37
Space heating	Average climate water outlet 55°C	General	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	General	Psup (at Tdesign -10°C)	kW	2.2	2.4
Tbiv	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			
		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			
B Condition (2°CDB/ 1°CWB)	General	Cdh (Degradation heating)		1.0			


2 Specifications

2 - 1 Specifications

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3	
Space heating 	Warm climate water outlet	B Condition (2°C- B/1°CWB)	COPd	2.12	2.18	2.17	
			Pdh kW	9.0		9.8	
			PERd %	84.8		86.8	
	55°C	C Condition (7°C- 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°C- B/11°CWB)	Cdh (Degradation heating)			1.0	
				COPd		5.68	5.69
			Pdh kW		5.0		
	Tbiv (bivalent temperature)	Tbiv	Cdh (Degradation heating)			227.2	227.6
				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	Annual energy consumption		3,939	4,456	4,923
			ηs (Seasonal space heating efficiency)		186		182
			Prated at -10°C		9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)		14	16	18
			SCOP		4.72	4.64	4.62
			Seasonal space heating eff. class			A+++	
		A Condition (-7°C- B/-8°CWB)	Cdh (Degradation heating)			1.0	
				COPd	3.07	3.03	2.95
				Pdh kW	8.5	9.2	10.1
		B Condition (2°C- B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd	4.52	4.37	4.35	
			Pdh kW	4.5	5.5	6.1	
	C Condition (7°C- B/6°CWB)	Cdh (Degradation heating)			1.0		
			COPd	6.78	6.74	6.70	
			Pdh kW	4.7	4.6	4.6	
D Condition (12°C- B/11°CWB)	Cdh (Degradation heating)			1.0			
		COPd	8.75	8.54	8.65		
		Pdh kW	5.5	5.4	5.4		
Tol (temperature operating limit)	Cdh (Degradation heating)			1.0			
		COPd	2.64	2.58	2.51		

2 Specifications

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Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3		
Space heating 	Average climate water outlet 35°C	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW %	8.3 105.6	10.1 103.2	11.2 100.4	
		Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %	2.75 8.7 110.0 -9	2.58 10.1 103.2	2.51 11.2 100.4	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	-10 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°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 Pdh PERd Tbiv	kW %	3.36 9.0 134.4	3.30 10.3 132.0	3.45 10.8 138.0		
	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			1~	
		Voltage	V		230	
	Voltage range	Min.	%		-10	
Max.		%		10		
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	

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Electrical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
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	
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		
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

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Technical specifications				EDLA16DV37		
Fan	Type			Propeller fan		
	Quantity			1		
	Discharge direction			Horizontal		
	Air flow rate	Heating	High	m ³ /min	85.0	
Fan motor	Quantity			1		
	Model			Brushless DC motor		
	Speed	Steps			8	
		Heating	Nom.	rpm	650	
	Output			W	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		
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	unit	kPa	76.7	
	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	G1" (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 (4)	
	Heater			W	66.0	

2 Specifications


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Technical specifications				EDLA16DV37		
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		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		
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		
		SCOP		3.33		
Space heating	Average climate water outlet 55°C	General	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				
Qhe Annual energy consumption (GCV)		Gj 16				
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0		

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Technical specifications				EDLA16DV37		
Space heating 	Warm climate water outlet 55°C	B Condition (2°CΔ- B/1°CWB)	COPd	2.17		
			Pdh kW	9.8		
			PERd %	86.8		
	55°C	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)		1.0	
			COPd	5.69		
	Tbiv (bivalent temperature)		Pdh kW	5.0		
			PERd %	227.6		
			COPd	2.51		
			Pdh kW	12.1		
	Average climate water outlet 35°C	General	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°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		
Tol (temperature operating limit)		COPd	8.82			
		Pdh kW	5.5			
		PERd %	352.8			
		COPd	2.48			

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Technical specifications				EDLA16DV37	
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		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
			General	Annual energy consumption	kWh
	Cold climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	159
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
			General	Annual energy consumption	kWh
	Warm climate water outlet 35°C	General	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)	General	Cdh (Degradation heating)
	COPd				3.30
	Pdh	kW			11.9
	C Condition (7°CDB/6°CWB)	General	PERd	%	132.0
			Cdh (Degradation heating)		1.0
			COPd		5.64
D Condition (12°CDB/11°CWB)	General	Pdh	kW	8.1	
		PERd	%	225.6	
		Cdh (Degradation heating)		1.0	
Tbiv (bivalent temperature)	General	COPd		7.73	
		Pdh	kW	5.2	
		PERd	%	309.2	
Tbiv (bivalent temperature)	General	Tbiv	°C	2	
		COPd		3.30	
		Pdh	kW	11.9	
Control systems	Class of temperature control	PERd	%	132.0	
		Tbiv	°C	2	
Control systems	Contribution to seasonal space heating efficiency			VI	
				4	

Electrical specifications				EDLA16DV37
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. range	%	-10
Power supply	Name	Max.	%	10
		Phase		V3
		Frequency	Hz	50
		Voltage	V	230
Voltage range	Min. range	Max.	%	-10
		Max.	%	10
Current	Maximum running current	Heating	A	30.8
		Recommended fuses	A	32

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Electrical specifications				EDLA16DV37
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
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	
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				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

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Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	
Fan	Type	Propeller fan					
	Quantity	1					
	Discharge direction	Horizontal					
Fan motor	Air flow rate	Heating	High	m ³ /min	48.0	55.8	70.4
	Quantity	1					
	Model	Brushless DC motor					
	Speed	Steps	8				
		Heating	Nom.	rpm	400	450	550
	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				
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
	Water side	Min.	°C	15 (3)			
			°C	60 (3)			
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
	Water side	Min.	°C	25			
			°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						
Safety devices	Item	01	Inverter controlled				
		02	High pressure switch				
		03	Low pressure switch				
		04	Fan driver overload protector				
		05	Fuse				
Pump	Quantity	1					
	Nr of speeds	PWM					
	Nominal ESP	Heating	unit	kPa	106.9	102.7	96.5
	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)
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

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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)	m ³ /h	2,880	3,350	4,220		
		Other		Inverter				
	Capacity control				0.000			
	Pck (Crankcase heater mode)		kW		0.023			
	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)	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)	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)	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)	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		
		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		

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Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3			
Space heating 	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)		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			
		C Condition (7°CDB/6°CWB)	PERd %		84.8	87.2	86.8		
			Cdh (Degradation heating)			1.0			
			COPd		3.65	3.74	3.83		
		D Condition (12°CDB/11°CWB)	Pdh kW			6.2	7.6		
			PERd %		146.0	149.6	153.2		
			Cdh (Degradation heating)			1.0			
		Tbiv (bivalent temperature)	COPd		5.68		5.69		
			Pdh kW			5.0			
			PERd %		227.2		227.6		
		Average climate water outlet 35°C	General	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	
				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				
C Condition (7°CDB/6°CWB)	PERd %		180.8	174.8	174.0				
	Cdh (Degradation heating)			1.0					
	COPd		6.78	6.74	6.70				
D Condition (12°CDB/11°CWB)	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					

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Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3		
Space heating	Average climate water outlet 35°C	D Condition (12°CDB/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°CDB/1°CWB)	General	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)	General	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)	General	Cdh (Degradation heating)			1.0			
		COPd			7.87	7.73		
		Pdh	kW			5.2		
		PERd	%		314.8			
Tbiv (bivalent temperature)	General	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	
		Voltage range	Min. Max.	%		-10 10
Hydraulic component	Back-up heater current	Type			3V3	
		Power supply	Phase		1~	
			Frequency	Hz		50
	Running current	Voltage	V		230	
		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			V3		
	Phase			1~		
	Frequency		Hz	50		
Voltage range	Voltage	V		230		
	Min.	%		-10		
	Max.	%		10		

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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) 0.75 ~1.25 mm ² (P1P2)	
	Preferential kWh rate	Quantity			Power: 2	
		Remark			Power 6.3A	
Wiring connections	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

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

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Technical specifications				EDLA16D3V37		
Fan	Type	Propeller fan				
	Quantity	1				
	Discharge direction	Horizontal				
	Air flow rate	Heating	High	m ³ /min	85.0	
Fan motor	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	Accumulator			
Operation range	Heating	Ambient	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	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	

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Technical specifications				EDLA16D3V37		
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)		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		
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)	Gj	16	
		B Condition (2°C _{CD} -B/1°C _{CWB})	Cdh (Degradation heating)	1.0	
			COPd	2.17	
			Pdh kW	9.8	
			PERd %	86.8	
		C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	1.0	
			COPd	3.73	
			Pdh kW	9.1	
			PERd %	149.2	
		D Condition (12°C _{CD} -B/11°C _{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	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 _{CWB})	COPd	2.87	
			Pdh kW	11.2	
			PERd %	114.8	
		B Condition (2°C _{CD} -B/1°C _{CWB})	Cdh (Degradation heating)	1.0	
		COPd	4.33		
		Pdh kW	6.7		
	PERd %	173.2			
C Condition (7°C _{CD} -B/6°C _{CWB})	Cdh (Degradation heating)	1.0			
	COPd	6.83			
	Pdh kW	4.7			
	PERd %	273.2			
D Condition (12°C _{CD} -B/11°C _{CWB})	Cdh (Degradation heating)	1.0			
	COPd	8.82			
	Pdh kW	5.5			

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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	
		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)	COPd			1.0
				Pdh	kW		3.30
				PERd	%		11.9
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd			1.0
				Pdh	kW		5.64
				PERd	%		8.1
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd			1.0	
			Pdh	kW		7.73	
PERd			%		5.2		
Tbiv (bivalent temperature)	COPd				309.2		
		Pdh	kW		3.30		
		PERd	%		11.9		
Tbiv	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	
Hydraulic component	Voltage range	Max.	%	10	
		Back-up heater	Type	3V3	
	Power supply	Phase	Power		1~
			Frequency	Hz	50
			Voltage	V	230
	Running current	Back-up heater		A	13.0
			Min.	%	-10
Voltage range	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	

2 Specifications

2 - 1 Specifications

2

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
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) 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

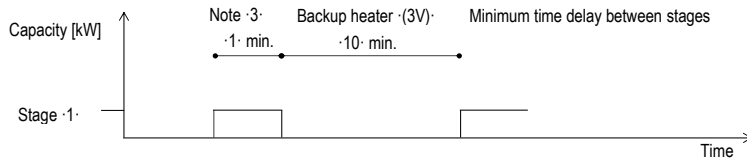
3 - 1 Electrical Data

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

Electrical specifications

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%
	Current	Nominal running current		A	13
Zmax (backup heater) (2)			Ω	-	
			Complex	-	
Minimum Ssc value		kVA	-		

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

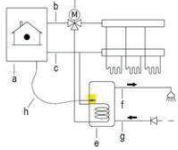
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

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

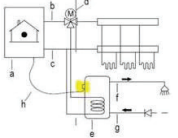
Reference	Description	Notes	E(B/D)LA(09/11/14/16)DA			
			No backup heater		Backup heater	
			Heating only	Reversible	Heating only	Reversible
			EDLA(09/11/14/16) DA(V3/W1), EDLA16DA (V37/W17)	EBLA(09/11/14/16) DA(V3/W1), EBLA16DA (V37/W17)	EDLA(09/11/14/16) DA3(V3/W1), EDLA16DA3 (V37/W17)	EBLA(09/11/14/16) 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
EKLBUHCB6W	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 EKRS4* 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.

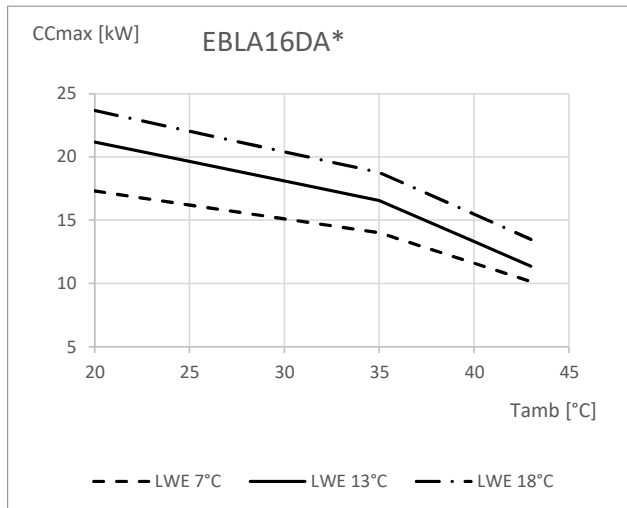
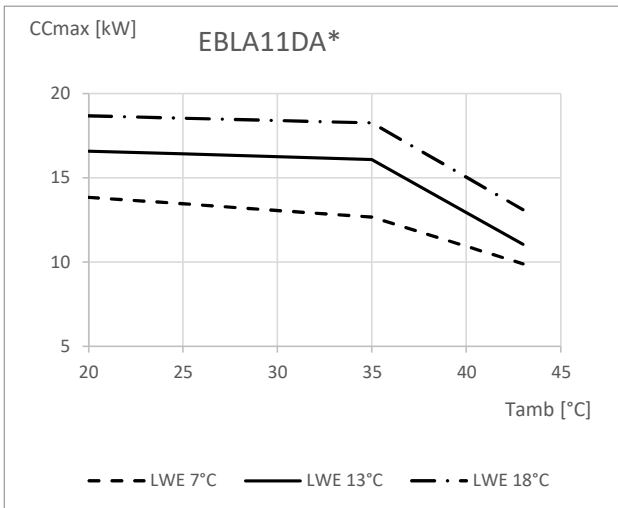
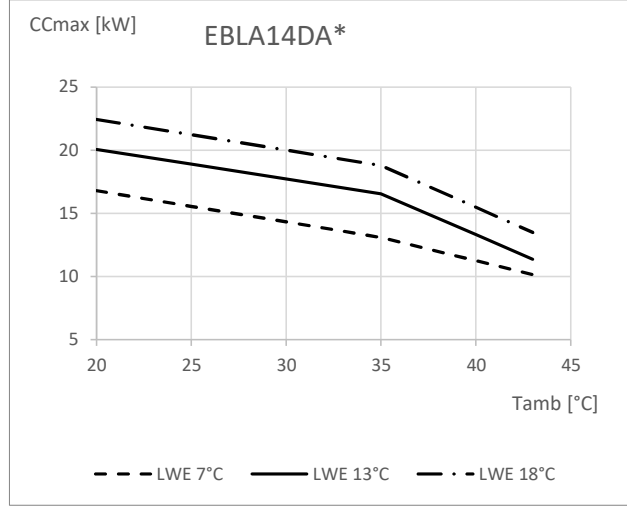
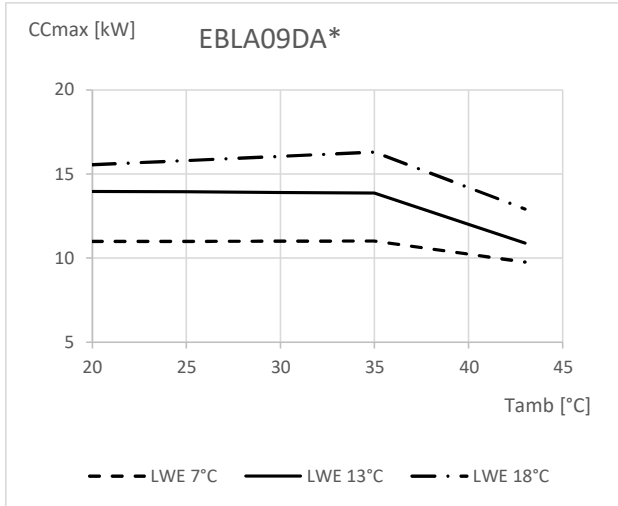
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5 Capacity graphs

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 ΔT = 3~8°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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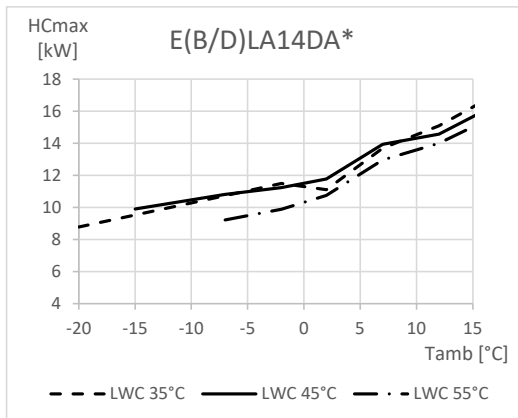
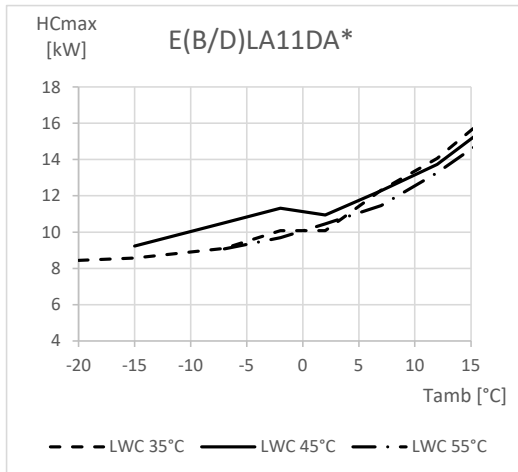
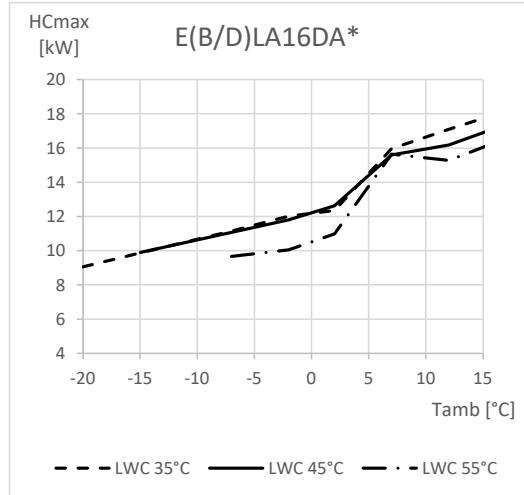
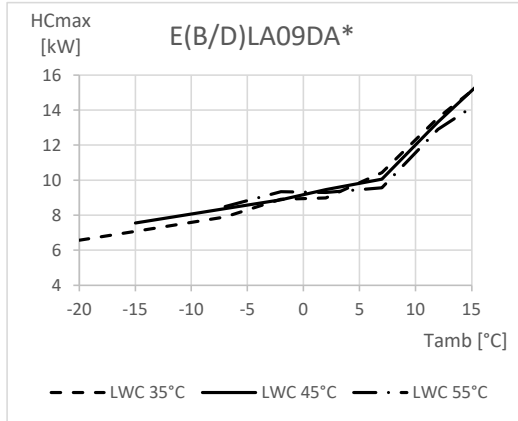
5 Capacity graphs

5 - 2 Heating Capacity Graphs

5

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 ΔT = 3~8°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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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

Tamb	EWC	LWC	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)	
			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

Tamb	EWC	LWC	E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1)(7)		Used for:
			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

Tamb	EWE	LWE	EBLA09DA(3)(V3/W1)		EBLA11DA(3)(V3/W1)		EBLA14DA(3)(V3/W1)		EBLA16DA(3)(V3/W1)(7)		Used for:
			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
35	12	7	9.35	3.35	11.59	3.26	12.82	3.16	14.01	3.06	Keymark

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
Tapping pattern	XL	XL
Application	Average climate (design temperature: 7°C)	
COP _{DHW}	2.51	2.73
η_{wh} [%]	102.9%	112.0%
AEC [kWh]	1628	1495
Application	Colder climate (design temperature: -2°C)	
COP _{DHW}	2.04	2.24
η_{wh} [%]	83.3%	91.8%
AEC [kWh]	2011	1826
Application	Warmer climate (design temperature: 14°C)	
COP _{DHW}	2.96	3.23
η_{wh} [%]	121.8%	132.9%
AEC [kWh]	1375	1261

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	Tamb	EWC	LWC	EBLA09DA(V3/3V3)		E(B/D)LA11DA(V3/3V3)		E(B/D)LA14DA(V3/3V3)		E(B/D)LA16DA(V3/3V3)(7)	
	[°C]	[°C]	[°C]	HC	COP	HC	COP	HC	COP	HC	COP
A	-7/-8	34	100	7.96	2.50	9.12	2.44	10.68	2.50	11.11	2.55
B	2/1	30	100	9.10	3.33	10.35	3.34	11.22	3.69	12.35	3.43
C	7/6	27	100	9.41	6.04	10.74	5.94	13.85	5.43	15.30	5.28
D	12/11	24	100	15.25	7.15	16.34	7.03	17.99	6.87	19.08	6.79
A	-7/-8	52	100	8.51	1.87	9.57	1.81	9.75	1.82	10.15	1.84
B	2/1	42	100	9.31	2.63	10.68	2.59	11.57	2.63	12.54	2.69
C	7/6	36	100	10.38	4.62	12.31	4.58	13.71	4.47	15.92	4.39
D	12/11	30	100	13.80	4.91	14.32	5.23	15.37	5.84	17.42	6.05

Condition	Tamb	EWC	LWC	EBLA09DA(W1/3W1)		E(B/D)LA11DA(W1/3W1)		E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1)(7)	
	[°C]	[°C]	[°C]	HC	COP	HC	COP	HC	COP	HC	COP
A	-7/-8	34	100	7.96	2.50	9.12	2.44	10.68	2.50	11.11	2.55
B	2/1	30	100	9.10	3.33	10.35	3.34	11.22	3.69	12.35	3.43
C	7/6	27	100	9.41	6.04	10.74	5.94	13.85	5.43	15.30	5.28
D	12/11	24	100	15.25	7.15	16.34	7.03	17.99	6.87	19.08	6.79
A	-7/-8	52	100	8.51	1.87	9.57	1.81	9.75	1.82	10.15	1.84
B	2/1	42	100	9.31	2.63	10.68	2.59	11.57	2.63	12.54	2.69
C	7/6	36	100	10.38	4.62	12.31	4.58	13.71	4.47	15.92	4.39
D	12/11	30	100	13.80	4.91	14.32	5.23	15.37	5.84	17.42	6.05

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

Condition	Tamb	EWC	LWC	EBLA09DA(V3/3V3)		EBLA11DA(V3/3V3)		EBLA14DA(V3/3V3)		EBLA16DA(V3/3V3)(7)	
	[°C]	[°C]	[°C]	HC	COP	HC	COP	HC	COP	HC	COP
A	35	18	100	16.31	3.64	18.25	3.42	18.79	3.99	18.79	3.99
B	30	18	75	11.45	6.20	13.38	5.51	15.53	5.51	16.12	5.32
C	25	18	50	8.19	9.52	9.13	9.04	10.29	9.62	10.29	9.62
D*	20	18	25	4.08	14.28	4.56	14.38	4.70	14.41	4.70	14.41
A	35	7	100	11.02	2.98	12.68	2.74	13.09	3.02	14.01	3.03
B	30	7	75	7.68	4.32	9.03	4.09	10.71	4.04	11.12	3.94
C	25	7	50	5.71	5.83	6.26	5.64	6.81	5.82	6.81	5.82
D*	20	7	25	2.75	6.46	3.17	6.52	3.27	6.53	3.50	6.56

Condition	Tamb	EWC	LWC	EBLA09DA(W1/3W1)		EBLA11DA(W1/3W1)		EBLA14DA(W1/3W1)		EBLA16DA(W1/3W1)(7)	
	[°C]	[°C]	[°C]	HC	COP	HC	COP	HC	COP	HC	COP
A	35	18	100	16.31	3.64	18.25	3.42	18.79	3.99	18.79	3.99
B	30	18	75	11.45	6.20	13.38	5.51	15.53	5.51	16.12	5.32
C	25	18	50	8.19	9.52	9.13	9.04	10.29	9.62	10.29	9.62
D*	20	18	25	4.08	14.28	4.56	14.38	4.70	14.41	4.70	14.41
A	35	7	100	11.02	2.98	12.68	2.74	13.09	3.02	14.01	3.03
B	30	7	75	7.68	4.32	9.03	4.09	10.71	4.04	11.12	3.94
C	25	7	50	5.71	5.83	6.26	5.64	6.81	5.82	6.81	5.82
D*	20	7	25	2.75	6.46	3.17	6.52	3.27	6.53	3.50	6.56

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

SYMBOLS

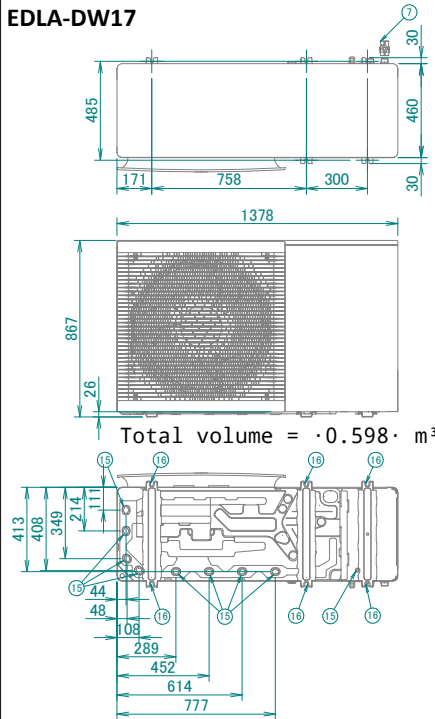
HC	Heating capacity measured according to EN 14511	
CC	Cooling capacity, measured according to EN 14511	
COP/EER	Coefficient of Performance/Energy efficiency ratio according to EN 14511	
EWC	Entering water condenser temperature	[°C]
LWC	Leaving water condenser temperature	[°C]
EWE	Entering water evaporator 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

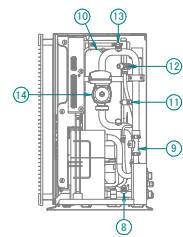
7 - 1 Dimensional Drawings

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



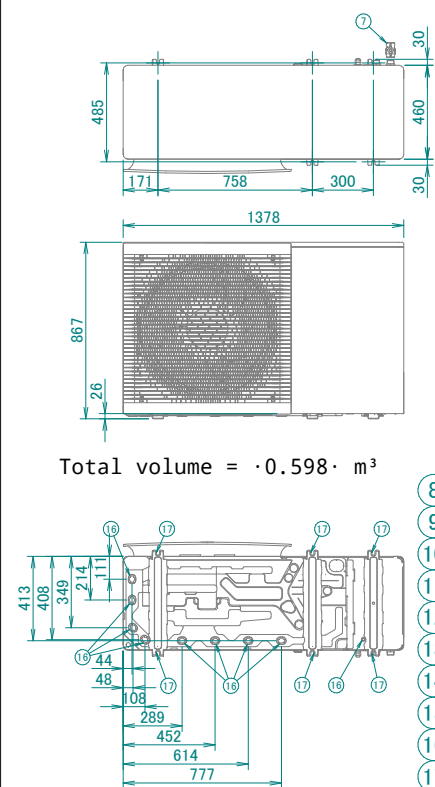
- ① Water in connection ·1"·M·
- ② Water out connection ·1"·M·
- ③ Wiring intake (low voltage wiring)
- ④ Wiring intake (high voltage wiring)
- ⑤ Wiring intake (power supply)
- ⑥ Backup heater power supply
- ⑦ Shut-off valve / filter (included accessory)

- ⑧ Drain valve water circuit
- ⑨ Flow sensor
- ⑩ Expansion vessel
- ⑪ Space heating water pressure sensor
- ⑫ Safety valve
- ⑬ Manual air purge valve
- ⑭ Pump
- ⑮ Drain outlet
- ⑯ ·6· holes for anchor bolts



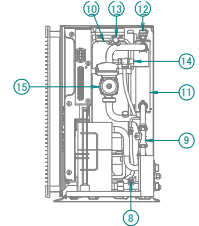
3D129505A

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



- ① Water in connection ·1"·M·
- ② Water out connection ·1"·M·
- ③ Wiring intake (low voltage wiring)
- ④ Wiring intake (high voltage wiring)
- ⑤ Wiring intake (power supply)
- ⑥ Backup heater power supply
- ⑦ Shut-off valve / filter (included accessory)

- ⑧ Drain valve water circuit
- ⑨ Flow sensor
- ⑩ Expansion vessel
- ⑪ Backup heater
- ⑫ Automatic air purge valve
- ⑬ Space heating water pressure sensor
- ⑭ Safety valve
- ⑮ Pump
- ⑯ Drain outlet
- ⑰ ·6· holes for anchor bolts



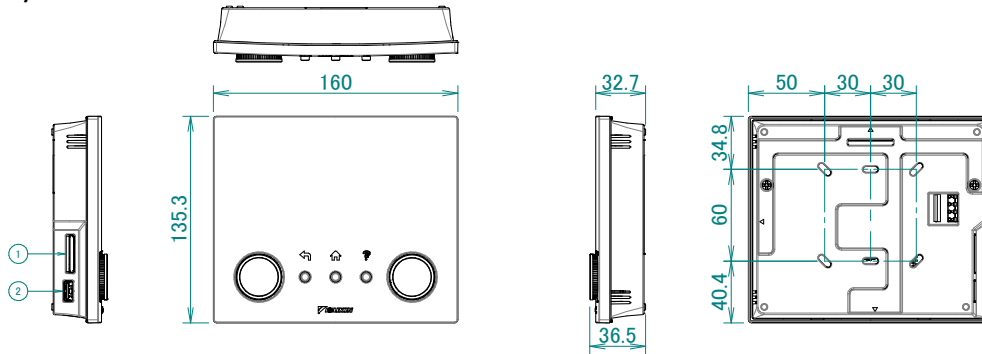
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7 Dimensional drawings

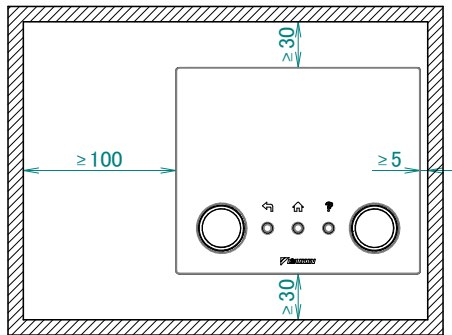
7 - 1 Dimensional Drawings

7

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



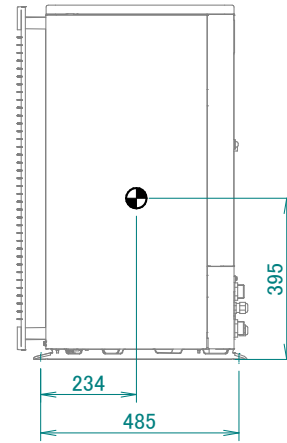
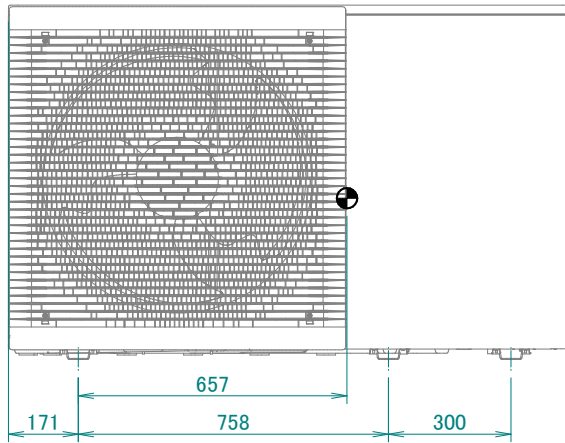
- ① USB Connector
- ② WLAN cartridge

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

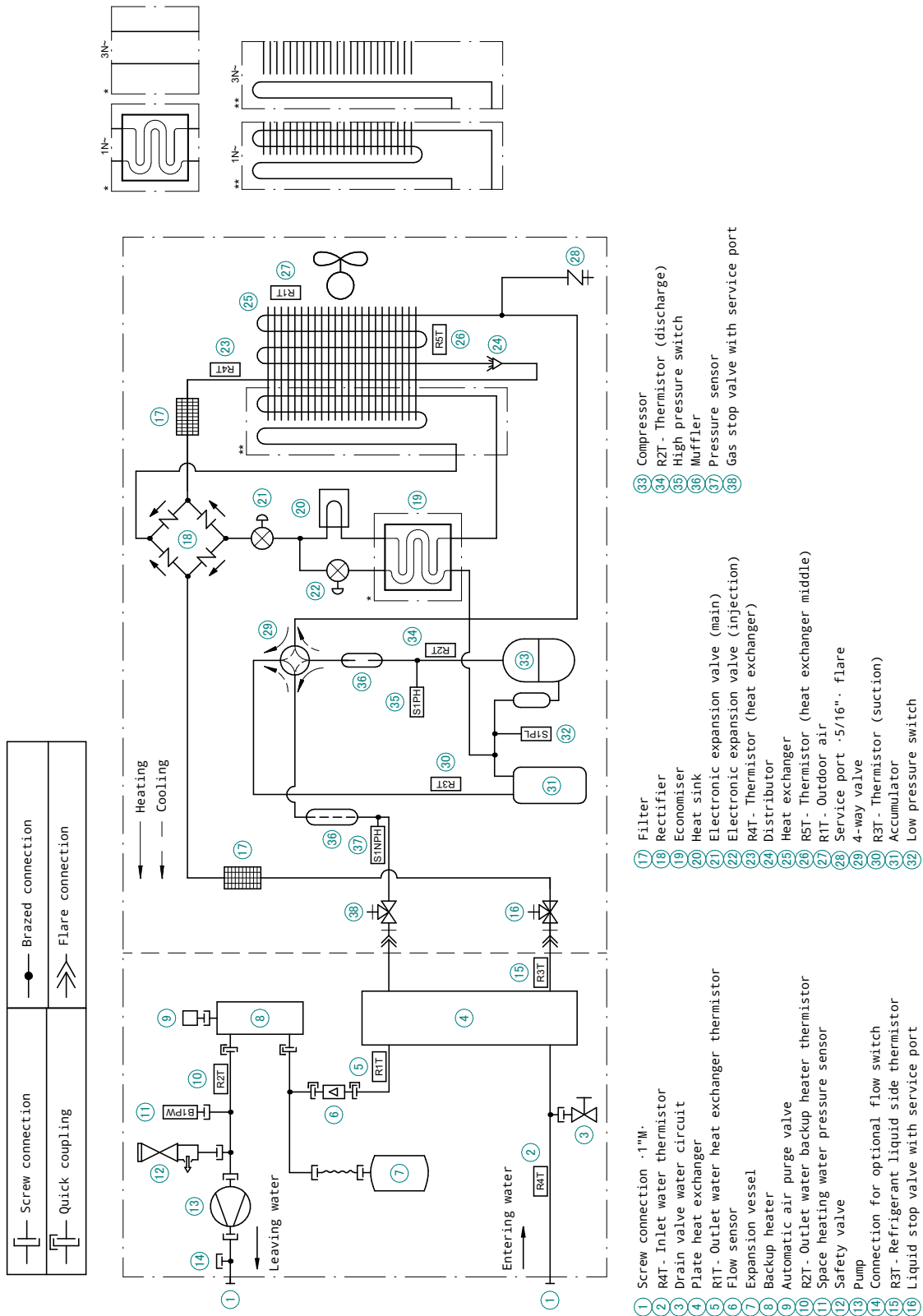


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9 Piping diagrams

9 - 1 Piping Diagrams

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



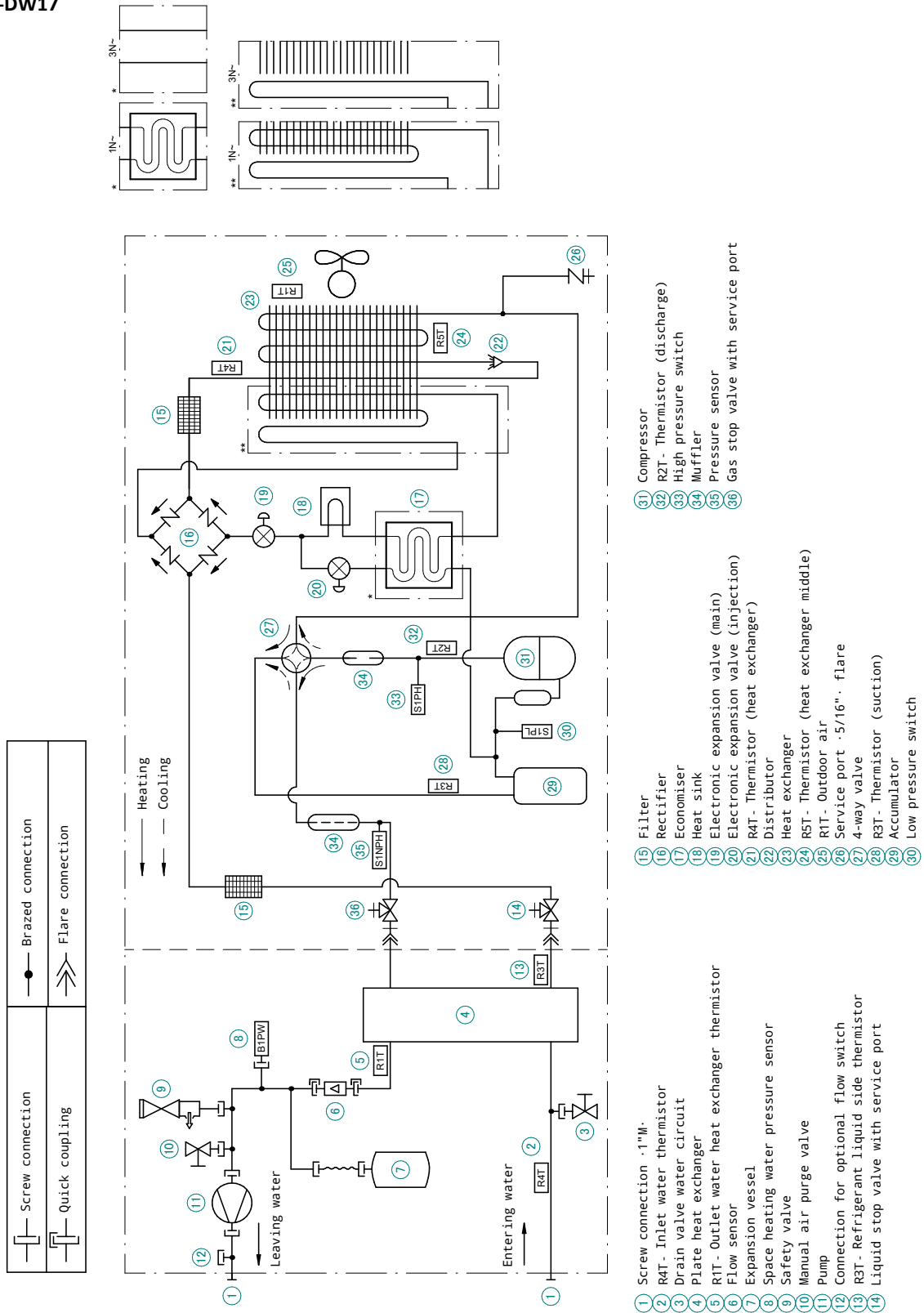
- ① Screw connection ·1"m.
- ② R4T - Inlet water thermistor
- ③ Drain valve water circuit
- ④ Plate heat exchanger
- ⑤ R1T - Outlet water heat exchanger thermistor
- ⑥ Flow sensor
- ⑦ Expansion vessel
- ⑧ Backup heater
- ⑨ Automatic air purge valve
- ⑩ R2T - Outlet water backup heater thermistor
- ⑪ Space heating water pressure sensor
- ⑫ Safety valve
- ⑬ Pump
- ⑭ Connection for optional flow switch
- ⑮ R3T - Refrigerant liquid side thermistor
- ⑯ Liquid stop valve with service port
- ⑰ Filter
- ⑱ Rectifier
- ⑲ Economiser
- ⑳ Heat sink
- ㉑ Electronic expansion valve (main)
- ㉒ Electronic expansion valve (injection)
- ㉓ R4T - Thermistor (heat exchanger)
- ㉔ Distributor
- ㉕ Heat exchanger
- ㉖ R5T - Thermistor (heat exchanger middle)
- ㉗ R1T - Outdoor air
- ㉘ Service port .5/16" - flare
- ㉙ 4-way valve
- ㉚ R3T - Thermistor (suction)
- ㉛ Accumulator
- ㉜ Low pressure switch
- ㉝ Compressor
- ㉞ R2T - Thermistor (discharge)
- ㉟ High pressure switch
- ㊱ Muffler
- ㊲ Pressure sensor
- ㊳ Gas stop valve with service port

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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



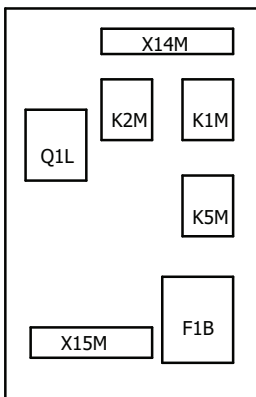
: PCB

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	Contacteur BUH (Step 1)
K2M	Contacteur BUH (Step 2)
K5M	Safety contacteur BUH
Q3DI	# Earth leakage circuit breaker
Q1L	Thermal protector BUH
R2T	Outlet BUH thermistor
X*M	Terminal strip

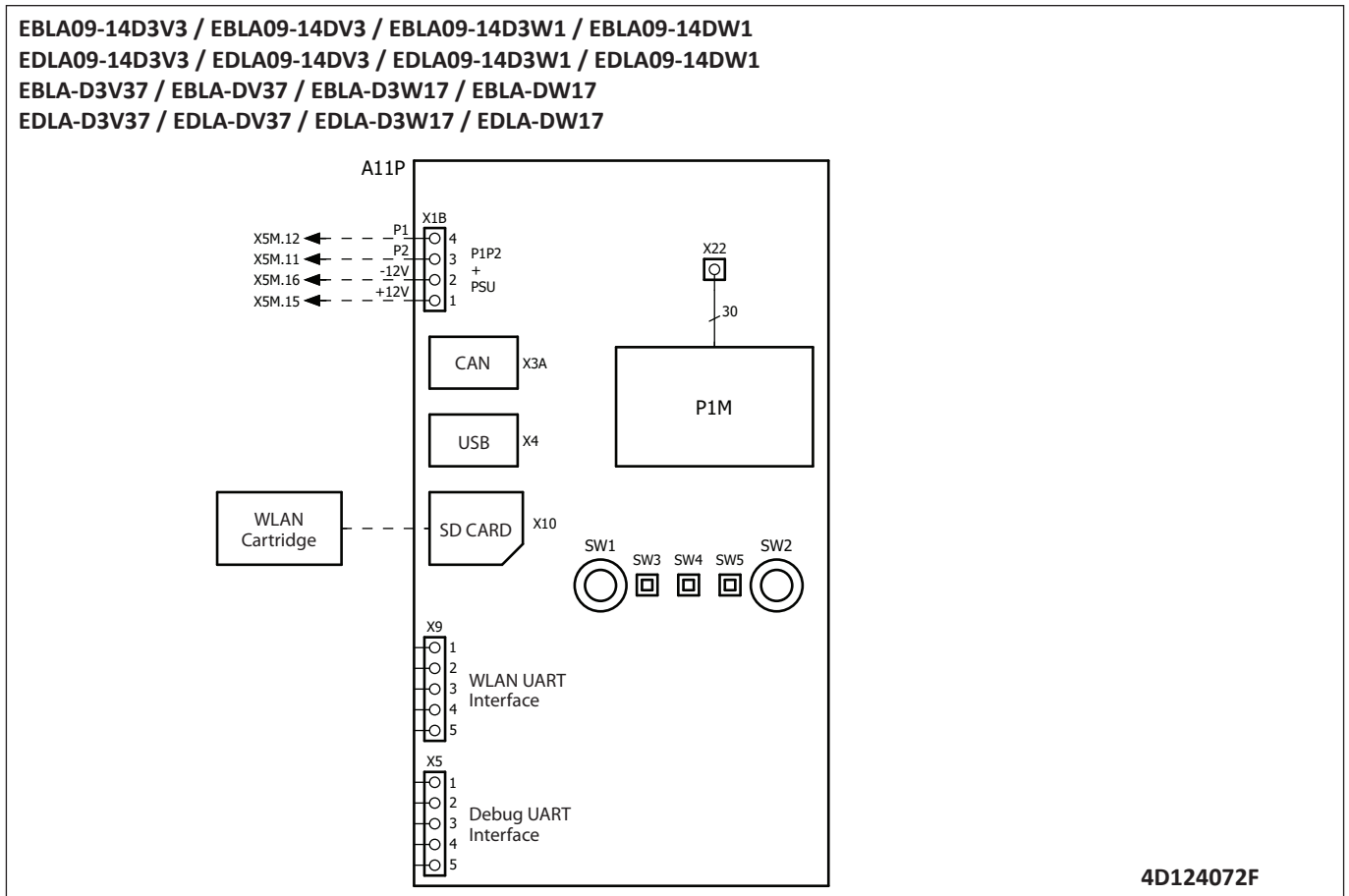
#: field supply

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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



10 Wiring diagrams

10 - 3 Compressor - Notes & Legend

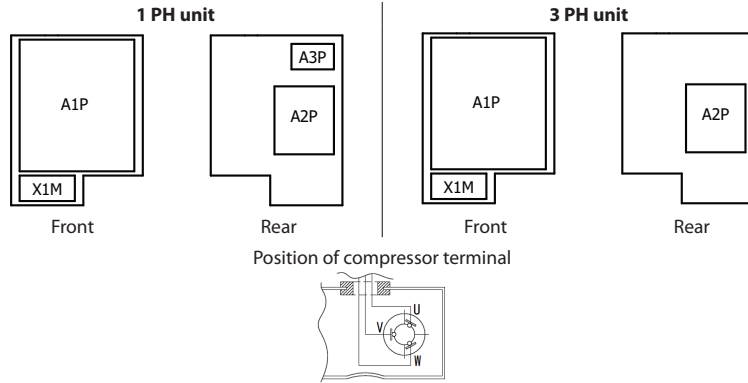
10

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

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS4 and DS1 switches.
2. When operating, do not short-circuit protection device Q1, S1PH and S1PL.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X77A.
4. Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; BRN: brown; YLW: yellow; ORG: orange
5. 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)	K10~13R (A1P)	Magnetic relay
K1R (A1P)	Magnetic relay (Y1S)	K11M (A1P)	Magnetic relay (Main)
K10~13R (A1P)	Magnetic relay	K14~15R (A2P)	Magnetic relay
K11M (A1P)	Magnetic relay (Main)	L*R (A1P)	Reactor
K14~15R (A2P)	Magnetic relay	M1C	Compressor motor
L*R (A1P)	Reactor	M1F	Fan motor
M1C	Compressor motor	PS (A1P)	Switching power supply
M1F	Fan motor	Q1	Thermal overcurrent protector
PS (A1P)	Switching power supply	Q1DI	# Earth leakage circuit breaker (30mA)
Q1	Thermal overcurrent protector	R2~R807 (A1P)	Resistor
Q1DI	# Earth leakage circuit breaker (30mA)	R1T	Thermistor (air)
R533~R807 (A*P)	Resistor	R2T	Thermistor (discharge)
R1T	Thermistor (air)	R3T	Thermistor (suction)
R2T	Thermistor (discharge)	R4T	Thermistor (distribution pipe)
R3T	Thermistor (suction)	R5T	Thermistor (heat exchanger middle)
R4T	Thermistor (distribution pipe)	R11T (A1P)	Thermistor (fin)
R5T	Thermistor (heat exchanger middle)	RC (A2P)	Signal receiver circuit
R11T (A1P)	Thermistor (fin)	S1NPH	Pressure sensor
RC (A2P)	Signal receiver circuit	S1PH	High pressure switch
S1NPH	Pressure sensor	S1PL	Low pressure switch
S1PH	High pressure switch	TC (A2P)	Signal transmission circuit
S1PL	Low pressure switch	V*D (A1P)	Diode
TC (A2P)	Signal transmission circuit	V1R (A1P)	Power module
V*D (A1P)	Diode	V2R (A1P)	Diode module
V1R (A1P)	Power module	V*T (A1P)	IGBT
V2R (A1P)	Diode module	X1M	Terminal strip
V*T (A1P)	IGBT	X*A, X*Y (A*P)	Connector
X1M	Terminal strip	Y1E, Y3E	Electronic expansion valve
X*A, X*Y (A*P)	Connector	Y1S	Solenoid valve (4-way valve)
Y1E, Y3E	Electronic expansion valve	Z*C	Noise filter (ferrite core)
Y1S	Solenoid valve (4-way valve)	Z*F (A*P)	Noise filter
Z*C	Noise filter (ferrite core)		
Z*F (A*P)	Noise filter		

* : optional

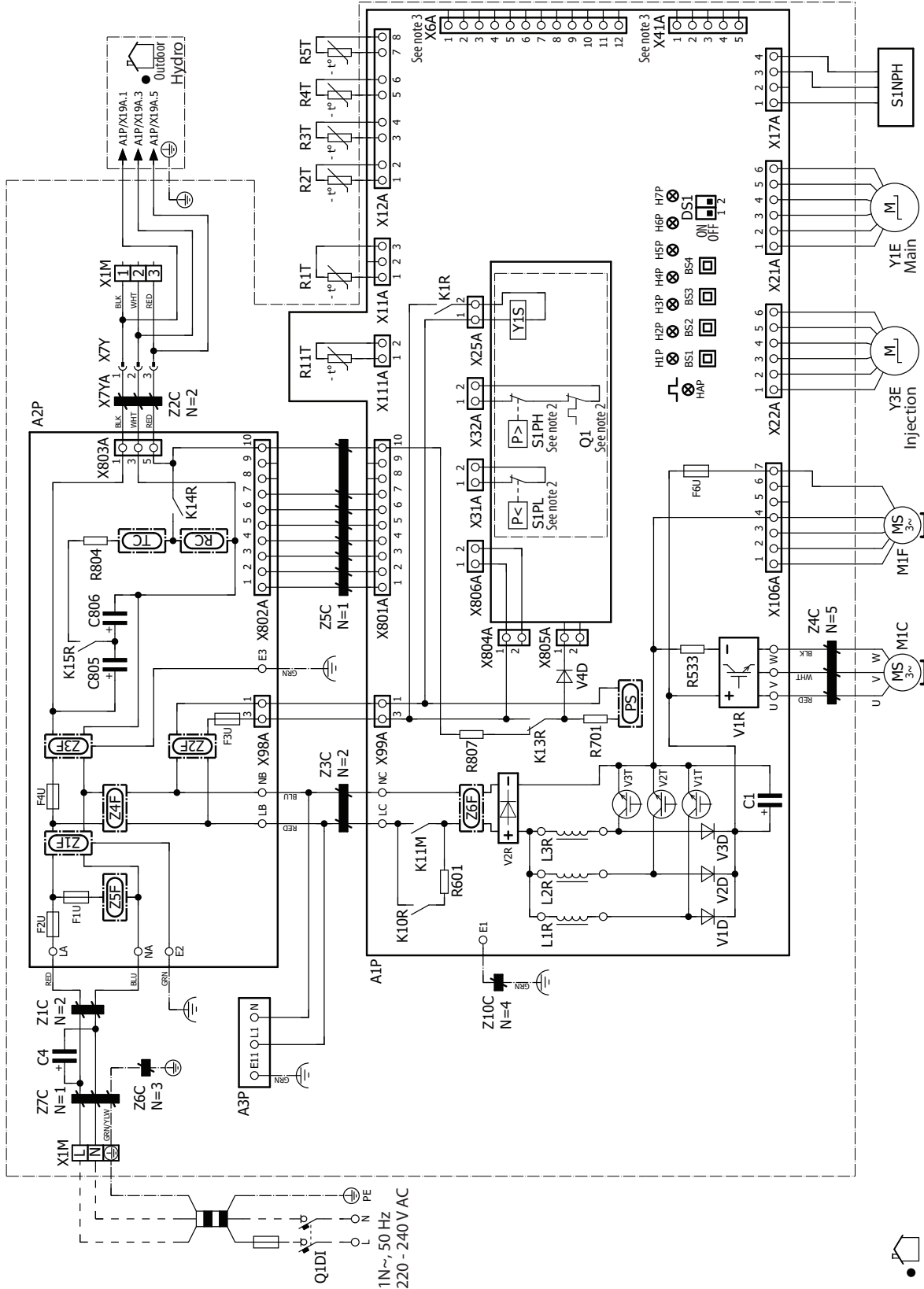
: field supply

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

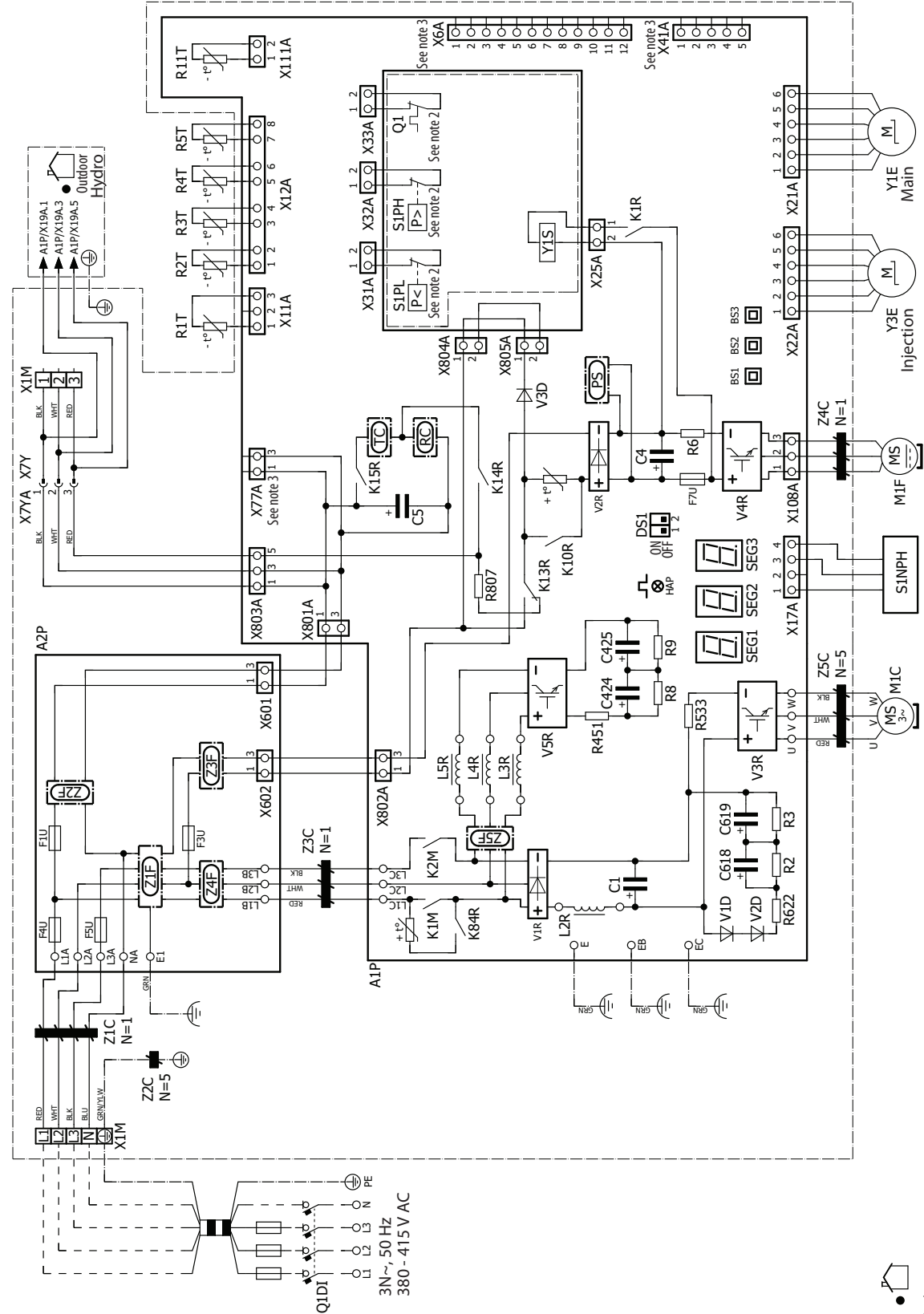


10 Wiring diagrams

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



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10 Wiring diagrams

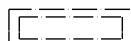
10 - 6 Hydro Module - Notes & Legend

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

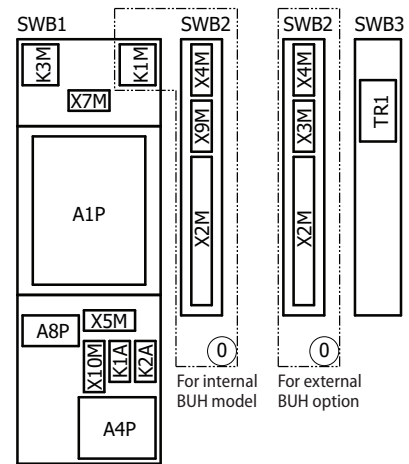
 : Wiring depending on model

 : 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
- Main LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor
- Add LWT:
 - ON/OFF thermostat (wired)
 - ON/OFF thermostat (wireless)
 - Ext. thermistor
 - Heat pump convactor

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
A1P	main PCB
A2P	* ON/OFF thermostat (PC=power circuit)
A3P	* heat pump convactor
A4P	* digital I/O PCB
A8P	* demand PCB
A11P	MMI main PCB
A13P	* LAN adapter
A14P	* user interface PCB
A15P	* receiver PCB (wireless ON/OFF thermostat)
B1L	flow sensor
B1PW	water pressure sensor
CN* (A4P)	* connector
DS1 (A8P)	* dipswitch
E3H	backup heater element (3 kW)
E5H	* booster heater element (2.4 kW)
E6H	PHE heater (50 W)
E7H	OP10 heater (33 W)
E8H	OP10 heater (50 W)
E9H	expansion vessel heater (50 W)
E10H	expansion vessel flex heater (15.6 W)
E11H, E12H	PHE heater IN/OUT (33 W)
E*P (A9P)	indication LED
F1B	# overcurrent fuse backup heater
F1T	thermal fuse backup heater
F2B	# overcurrent fuse booster heater
F2T	thermal fuse booster heater
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)	fuse T 5 A 250 V for PCB
K1A, K2A	* high voltage smartgrid relay
K1M	contactor backup heater
K3M	* contactor booster heater
K*R (A1P-A4P)	relay on PCB
M1P	main supply pump
M2P	# domestic hot water pump
M2S	# 2 way valve for cooling mode
M3S	* 3 way valve for floorheating /domestic hot water
M4S	* valve kit
P1M	MMI display

Part n°	Description
PC (A15P)	* power circuit
PHC1 (A4P)	* optocoupler input circuit
Q1L	thermal protector backup heater
Q2L	* thermal protector booster heater
Q4L	# safety thermostat
Q*DI	# earth leakage circuit breaker
R1H (A2P)	* humidity sensor
R1T (A1P)	outlet water heat exchanger thermistor
R1T (A2P)	* ambient sensor ON/OFF thermostat
R1T (A14P)	* ambient sensor user interface
R2T (A1P)	internal BUH sensor
R2T (A2P)	* external sensor (floor or ambient)
R3T	refrigerant liquid side thermistor
R4T	inlet water thermistor
R5T	* domestic hot water thermistor
R6T	* external indoor or outdoor ambient thermistor
S1L	* flow switch
S1S	# preferential kWh rate PS contact
S*T	thermostat
S2S	# electrical meter pulse input 1
S3S	# electrical meter pulse input 2
S4S	# smartgrid feed-in
S6S-S9S	* digital power limitation inputs
S10S-S11S	# low voltage smartgrid contact
SS1 (A4P)	* selector switch
SW1~2 (A11P)	turn buttons
SW3~5 (A11P)	push button
TR1	power supply transformer
X4M	* booster heater power supply terminal strip
X6M, X8M	# power supply terminal strip client
X9M	backup heater power supply terminal strip
X10M	* smartgrid power supply terminal strip
X*, X*A, X*Y	connector
X*M	terminal strip
Z*C	noise filter (ferrite core)

*: optional

#: field supply

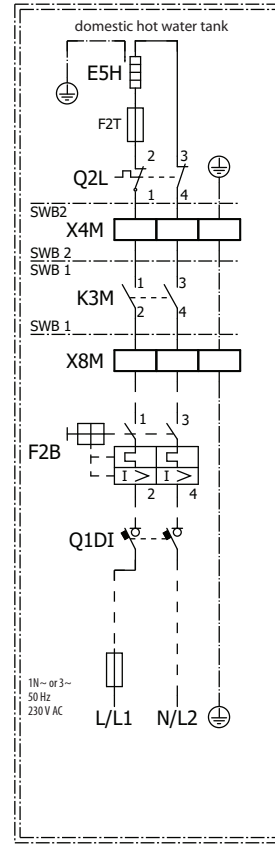
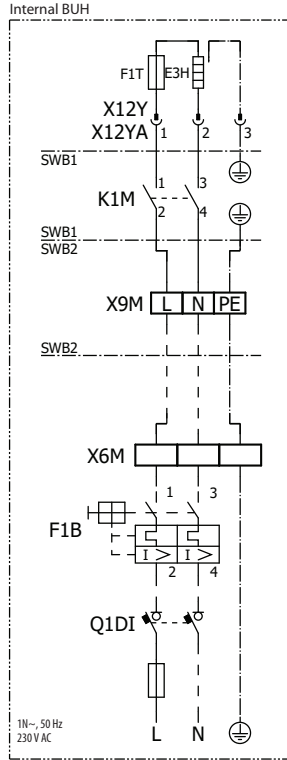
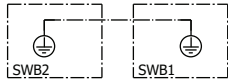
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10 Wiring diagrams

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

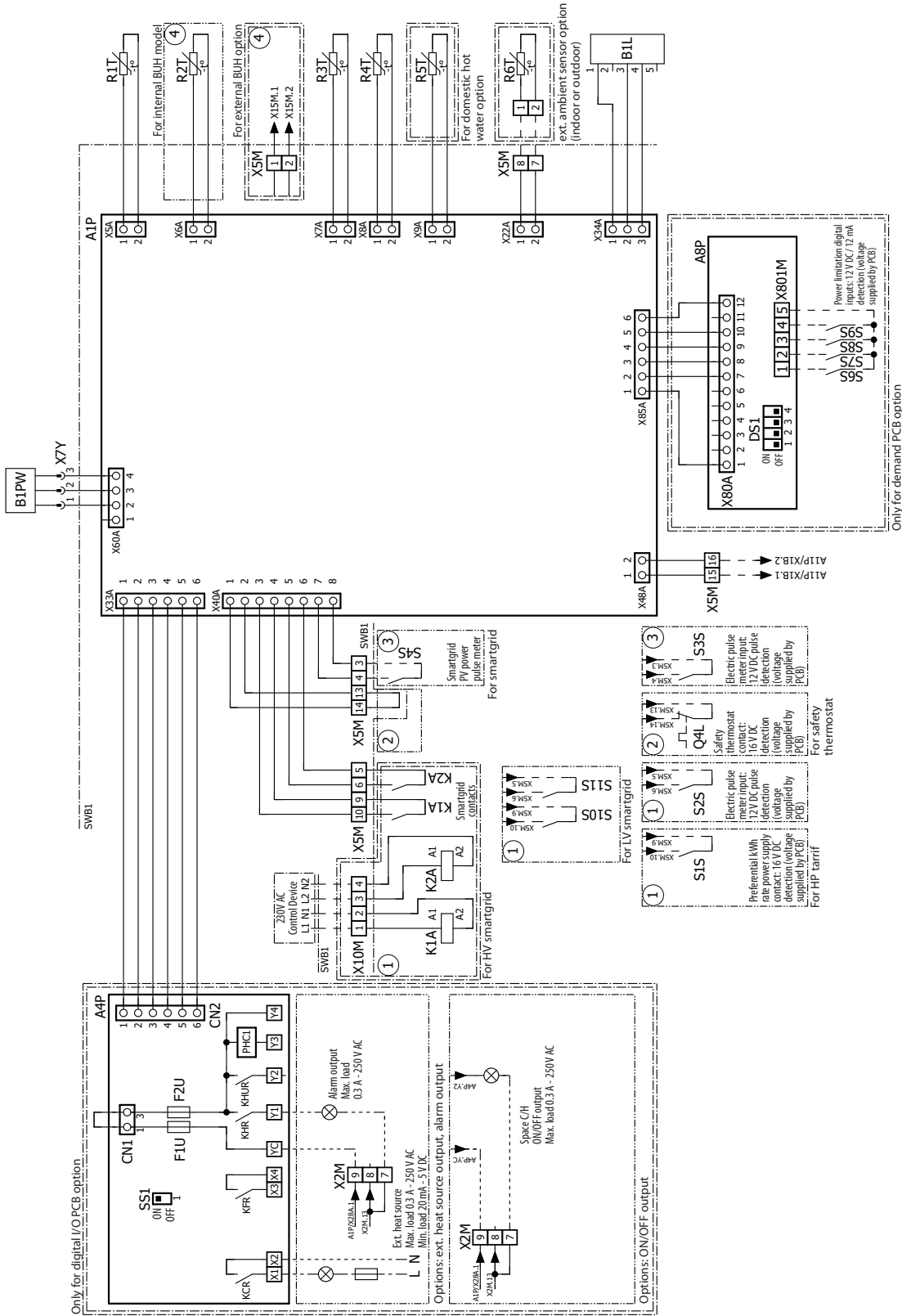


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10 Wiring diagrams

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



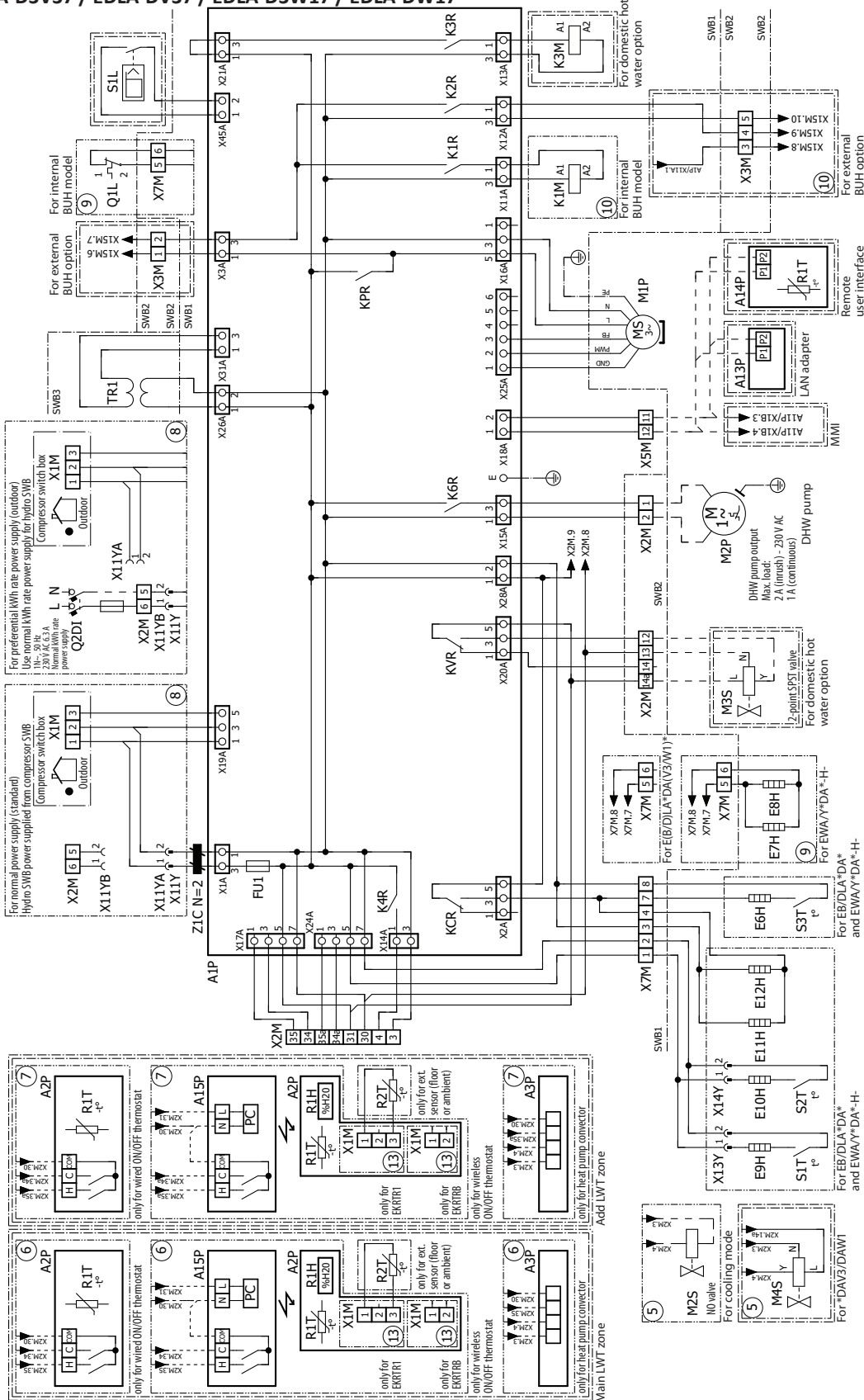
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10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

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



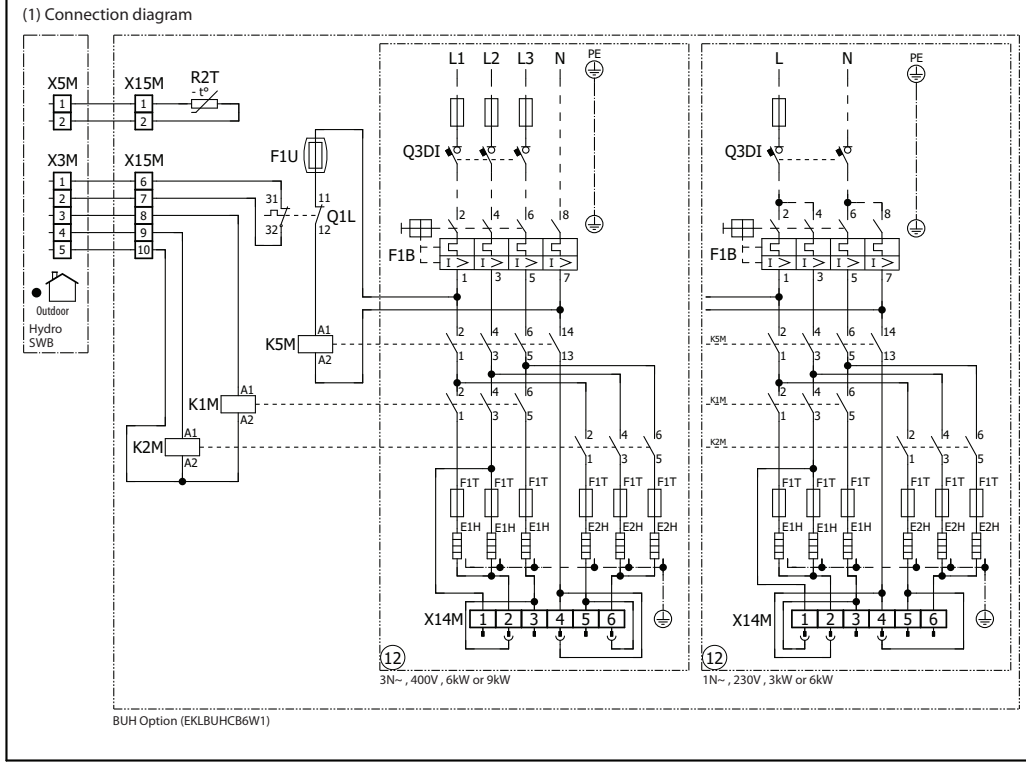
4D124072F

10 Wiring diagrams

10 - 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

10

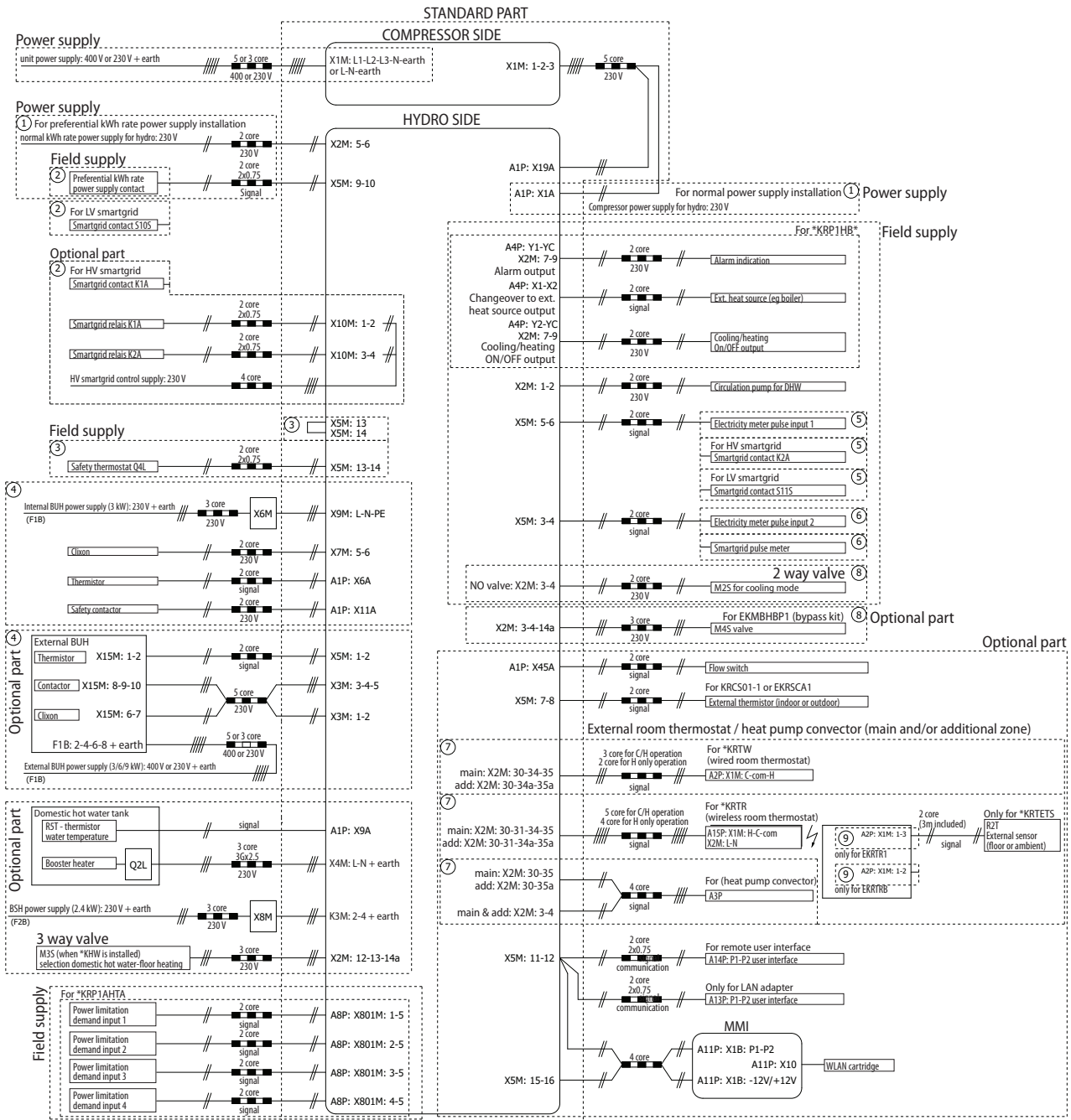


11 External connection diagrams

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



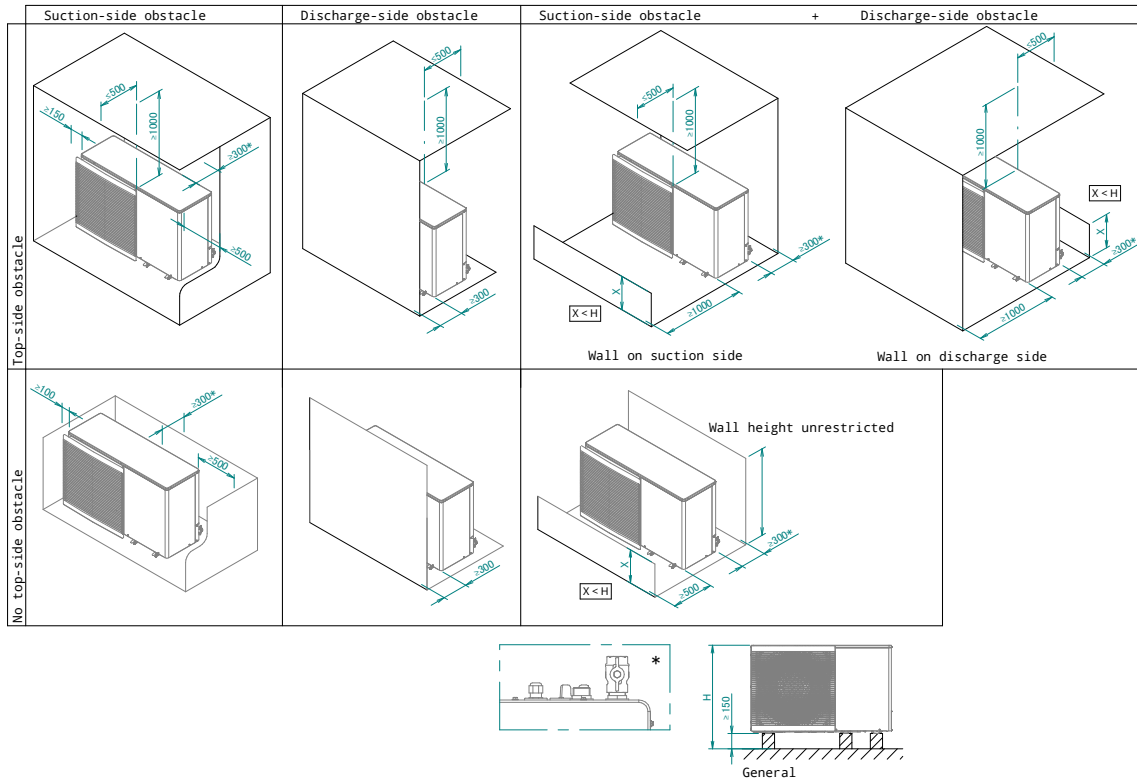
NOTE
 In case of signal cable: keep minimum distance to power cables > 5 cm

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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



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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

Hu Height of the unit

Hb,Hd Height of obstacles B and D

✘ Not allowed



(1)



(2)

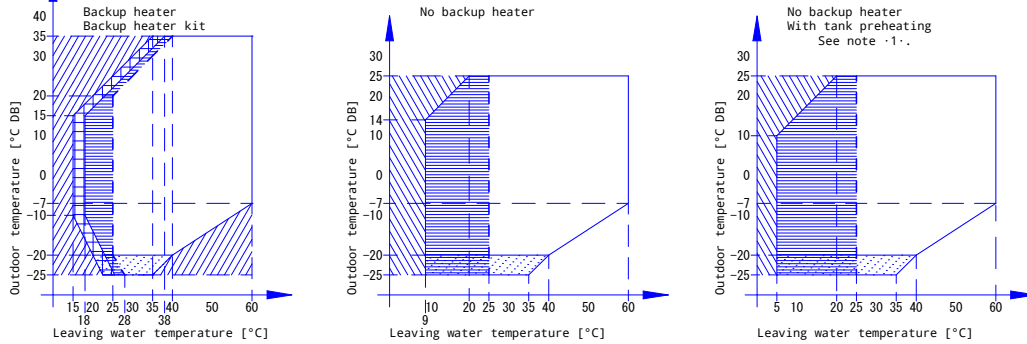
3D142508

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



Legend

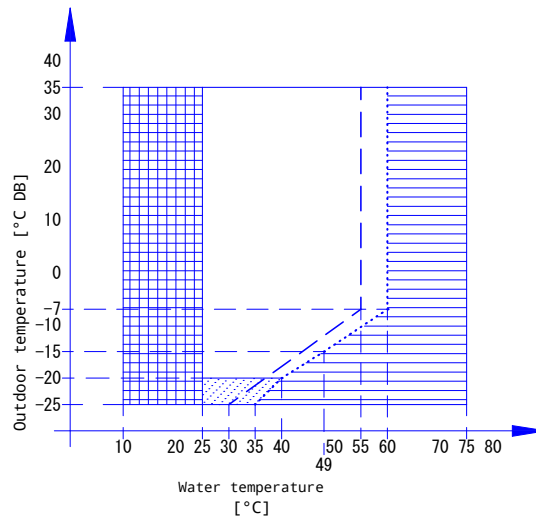
- Backup heater only operation
No outdoor unit operation
- Heat pump + backup heater operation
Pull-up area
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.
See dashed lines
- Operation of outdoor unit possible, but with possible capacity reduction.
- Circulation pump operation only

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

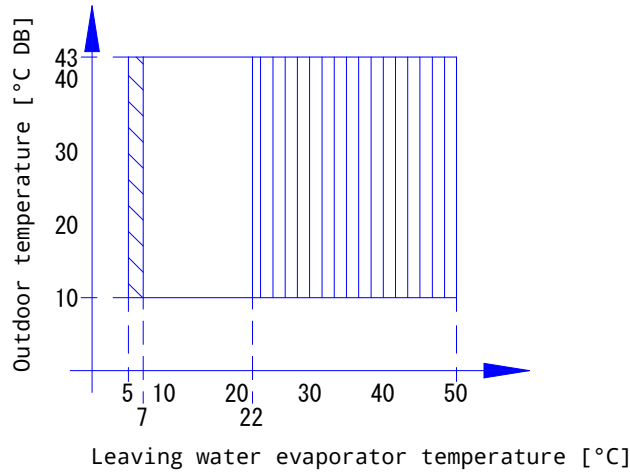
1. In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as EKHS*.
Coil surface > 1.05·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.
3. If negative ambient temperatures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

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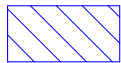
13 Operation range

13 - 1 Operation Range

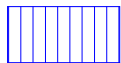
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17



Legend



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



Pull-down area

Notes

- 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.

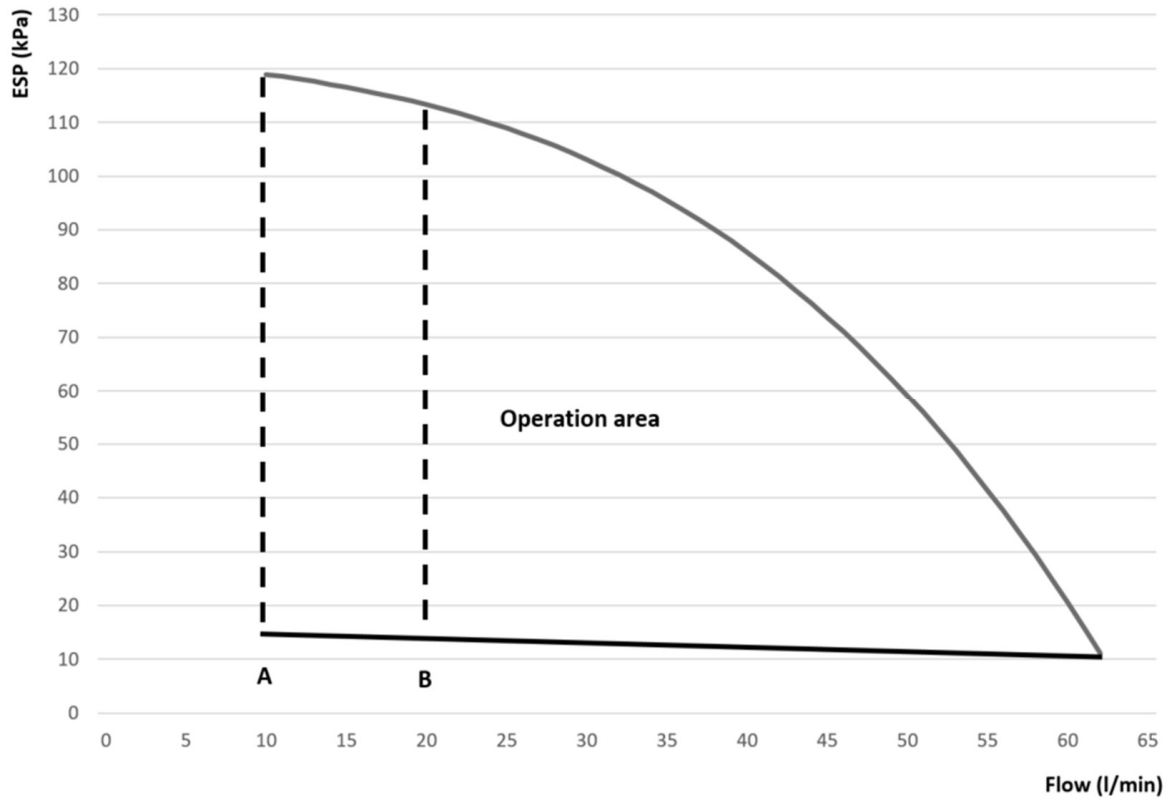
3D130999

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

14

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

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.

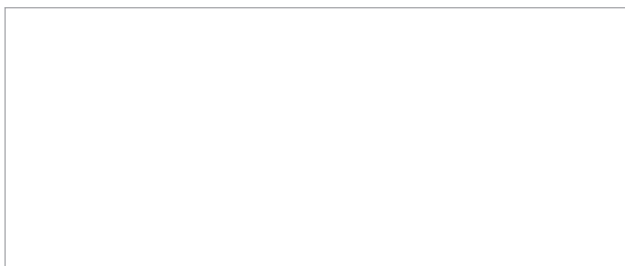
This does not apply to start-up operation, defrost operation, and backup heater operation in case a backup heater is installed.

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

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