

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

Reversible air to water monobloc system, ideal when indoor space is limited

- › 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

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	Nom.	kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)	
	Heating	Nom.	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*I	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	
	Domestic hot water	Water side	Min.	°C	5		
			Max.	°C	22		
		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		
	Charge			TCO2Eq	2.57		
	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

Technical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
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 Heating	kPa	106.5	102.9	97.6	
	ESP unit Cooling	kPa	106.6	99.2	94.1	
	Power input	W		180		
Water side Heat exchanger	Type			Plate heat exchanger		
	Quantity			1		
	Water volume	l		2.16		
	Water Heating Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)	
	flow rate Cooling Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)	
	Insulation material			EPDM type		
Expansion vessel	Heater	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 Max. OU - Tank length	m		10		
	Level dif- Max. ference	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		
Manu- Name or trademark			Daikin Europe N.V.			
Product details						
description Air-to-water heat pump				Yes		
description Brine-to-water heat pump				No		
description Heat pump combination heater				No		
General	description Low-temperature heat pump			No		
	description Supplementary heater integrated			No		
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			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

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-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			
			Rated heat output supplementary capacity	WTOL °C			55		
Psup (at Tdesign -10°C) kW	2.2	2.4		3.2					

2 Specifications

Technical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1	
Space heating	Average climate water outlet 55°C	Tbiv	COPd	1.92	1.90	2.09	
		(bivalent tempera- ture)	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°CWB)	Cdh (Degradation heating)	COPd		1.0		2.17
			Pdh kW	2.12	2.18	9.8	
			PERd %	84.8	87.2	86.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0		3.83
			Pdh kW	3.65	3.74	6.2	
			PERd %	146.0	149.6	153.2	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0		5.69
			Pdh kW	5.68	5.0	227.2	
			PERd %	227.2	227.2	227.6	
Tbiv (bivalent tempera- ture)	COPd	Pdh kW	2.12	2.18	2.40		
		PERd %	9.0	9.8	11.0		
			84.8	87.2	96.0		
			Tbiv °C	2		3	
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	
		ηs (Seasonal space heating efficiency)	%	190	186	185	
		Prated at -10°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	14	16	17	
		SCOP		4.82	4.73	4.70	
		Seasonal space heating eff. class			A+++		
A Condition (-7°CDB/-8°CWB)	COPd	Pdh kW	3.07	3.03	2.95		
		PERd %	8.5	9.2	10.1		
			122.8	121.2	118.0		

2 Specifications

Technical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0		
			COPd	4.52	4.37	4.35
			Pdh kW	5.5		
		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		
		Tol (temperature operating limit)	COPd	8.75	8.54	8.65
			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		
			Tbiv 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
		General	Prated at -22°C kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV) GJ	18	21	23
			Annual energy consumption kWh	1,938	2,128	2,333
B Condition (2°CDB/1°CWB)	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°CDB/6°CWB)	Cdh (Degradation heating)	1.0				
	COPd	3.36	3.30	3.45		
	Pdh kW	9.0	10.3	10.8		
D Condition (12°CDB/11°CWB)	PERd %	134.4	132.0	138.0		
	Cdh (Degradation heating)	1.0				
	COPd	5.59	5.70	5.77		
Tbiv (bivalent temperature)	Pdh kW	5.9	6.7	7.4		
	PERd %	223.6	228.0	230.8		
	Tbiv °C	2				
Control systems	Class of temperature control		VI			
	Contribution to seasonal space heating efficiency %		4			
Electrical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
Compressor	Starting method			Inverter		
Pump	Type			PWM		

2 Specifications

Electrical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1	
Compressor component	Main power supply	Phase Voltage	V		3N~ 400		
		Voltage range	Min.	%		-10	
	Max.		%		10		
	Power supply	Name				W1	
Phase					3~		
Frequency			Hz		50		
Voltage			V		400		
Voltage range	Min.		%		-10		
	Max.		%		10		
Current	Maximum running current	Heating	A		14.0		
		Recommended fuses	A		16		
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		
	Remark				Minimum 0.75 mm ²		
Wiring connections	Domestic hot water pump	Remark					
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	Nom.	kW	4.58 (3) / 3.24 (4)
	Heating	Nom.	kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate


2 Specifications

Technical specifications				EBLA16DW17	
Dimensions	Unit	Height	mm	870	
		Width	mm	1,380	
		Depth	mm	460	
Packed unit	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	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	
		Ps*V	Bar*I	159	
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	25 (6)
	Water side	Ambient	Min.	°C	9 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
	Water side	Ambient	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
Water side	Ambient	Min.	°C	25	
		Max.	°C	55 (6)	
Refrigerant	Type			R-32	
	GWP			675.0	
	Charge		kg	3.80	
	Charge		TCO2Eq	2.57	
	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	

2 Specifications

Technical specifications				EBLA16DW17
Pump	Quantity			1
	Nr of speeds			PWM
	Nominal	Heating	kPa	76.7
	ESP unit	Cooling	kPa	88.4
	Power input			W
Water side Heat exchanger	Type			Plate heat exchanger
	Quantity			1
	Water volume			l
	Water	Heating	Nom.	l/min
	flow rate	Cooling	Nom.	l/min
	Insulation material			EPDM type
	Heater			W
Expansion vessel	Volume			l
	Max. water pressure			bar
	Pre pressure			bar
	Heater			W
	Diameter perforations			mm
Water filter	Material			Stainless steel
	Diameter perforations			mm
Water circuit	Piping connections diameter			inch
	Piping			inch
	Piping	Max.	OU - Tank	m
	length			
	Level dif-	Max.		m
	ference			
	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/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
	Manu-	Name or trademark		Daikin Europe N.V.
	facturer			
	details			
	Product	Air-to-water heat pump		Yes
	descrip-	Brine-to-water heat pump		No
tion	Heat pump combination heater		No	
	Low-temperature heat pump		No	
	Supplementary heater integrated		No	
General	Product	Water-to-water heat pump		No
	descrip-			
	tion			
LW(A) Sound power level (according to EN14825)				dB(A)
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)		m ³ /h
				5,100
	Other	Capacity control		Inverter
		Pck (Crankcase heater mode)	kW	0.000
		Poff (Off mode)	kW	0.023
		Psb (Standby mode)	kW	0.023
Pto (Thermostat off)	kW	0.023		

2 Specifications

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		

2 Specifications

Technical specifications				EBLA16DW17	
Space heating	Average climate water outlet 55°C	Tbiv (bivalent temperature)	COPd	2.13	
			Pdh kW	10.1	
			PERd %	85.2	
			Tbiv °C	-5	
			Cold climate water outlet 55°C		General
				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) COPd	1.0
				Pdh kW	2.17
				PERd %	9.8
	C Condition (7°CDB/6°CWB)			Cdh (Degradation heating) COPd	86.8
				Pdh kW	1.0
				PERd %	3.73
	D Condition (12°CDB/11°CWB)			Cdh (Degradation heating) COPd	9.1
				Pdh kW	149.2
				PERd %	1.0
				Tbiv (bivalent temperature) COPd	5.69
				Pdh kW	2.51
				PERd %	12.1
				Tbiv °C	100.4
	Average climate water outlet 35°C		General	Annual energy consumption kWh	4
				ηs (Seasonal space heating efficiency) %	5,281
			Prated at -10°C kW	185	
			Qhe Annual energy consumption (GCV) GJ	12.0	
			SCOP	19	
			Seasonal space heating eff. class	4.69	
			A Condition (-7°CDB/-8°CWB) COPd	A+++	
			Pdh kW	2.87	
			PERd %	11.2	
				114.8	

2 Specifications

Technical specifications				EBLA16DW17
Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°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 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°CDB/1°CWB)	Cdh (Degradation heating)	1.0	
		COPd	3.30	
		Pdh kW	11.9	
		PERd %	132.0	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0		
	COPd	5.64		
	Pdh kW	8.1		
	PERd %	225.6		
Space heating	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0
			COPd	7.73
			Pdh kW	5.2
			PERd %	309.2
		Tbiv (bivalent temperature)	COPd	3.30
	Pdh kW		11.9	
	PERd %		132.0	
	Tbiv °C		2	
	Control systems	Class of temperature control		VI
Contribution to seasonal space heating efficiency %		4		

Electrical specifications		EBLA16DW17
Compressor	Starting method	Inverter
Pump	Type	PWM

2 Specifications

Electrical specifications				EBLA16DW17	
Compressor component	Main power supply	Phase Voltage	V	3N~ 400	
	Voltage range	Min.	%	-10	
		Max.	%	10	
Power supply	Name			W1	
	Phase			3~	
	Frequency	Hz		50	
	Voltage	V		400	
Voltage range	Min.	%		-10	
	Max.	%		10	
Current	Maximum running current	Heating	A	14.0	
		Recommended fuses	A	16	
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				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Heating capacity	Nom.		kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Cooling capacity	Nom.		kW	9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)
Heater capacity	Step 1		kW	3		
Power input	Cooling	Nom.	kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating	Nom.	kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER				3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER				5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour	Silver				
	Material	Polyester painted galvanised steel plate				

2 Specifications

Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	
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	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*I	159			
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type	R-32					
	GWP	675.0					
	Charge		kg	3.80			
	Charge		TCO2Eq	2.57			
	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				
Safety devices	Item	03	Fan driver overload protector				
		04	Fuse				
		05	Compressor motor thermal protector				

2 Specifications

Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Pump	Quantity			1		
	Nr of speeds			PWM		
	Nominal Heating		kPa	106.9	102.7	96.5
	ESP unit Cooling		kPa	107.0	98.4	92.3
	Power input			W		
Water side Heat exchanger	Type			Plate heat exchanger		
	Quantity			1		
	Water volume			l		
	Water Heating Nom.		l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
	flow rate 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		
	Diameter perforations			mm		
Water filter	Material			Stainless steel		
	Piping connections diameter			inch		
Water circuit	Piping			inch		
	Piping Max.	OU - Tank	m	10		
	length					
	Level dif- ference	Max.	m	5		
	Safety valve			bar		
	Drain valve / fill valve			Yes		
	Shut off valve			Yes		
	Air purge valve			Yes		
	Minimum water volume in the system			l		
	Heater			W		
	General	Supplier/ Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
Manu- Name or trademark			Daikin Europe N.V.			
Product Air-to-water heat pump			Yes			
descrip- Brine-to-water heat pump			No			
tion Heat pump combination heater			No			
General	Product Low-temperature heat pump			No		
	Product Supplementary heater integrated			Yes		
LW(A) Sound power level (according to EN14825)	Product Water-to-water heat pump			No		
	Sound condition Ecodesign and energy label			dB(A)		
Space heating general	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		

2 Specifications



Technical specifications			EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	
Space heating	Average climate water outlet 55°C	General	Annual energy consumption kWh	5,404	6,134	6,651
		ηs (Seasonal space heating efficiency) %	135	132	134	
		Prated at -10°C kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV) GJ	19	22	24	
		SCOP	3.44	3.37	3.42	
		Seasonal space heating eff. class	A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0		
			COPd	2.09	1.90	2.02
			Pdh kW	8.5	9.3	9.4
			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				

2 Specifications

Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1	
Space heating 	Average climate water outlet 55°C	Tol (temperature operating limit)	WTOL °C		55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
	Cold climate water outlet 55°C	General	Tbiv (bivalent temperature)	COPd	1.92	1.90	2.09
				Pdh	8.8	9.3	9.4
				PERd	76.8	76.0	83.6
				Tbiv	-8	-7	-6
	Warm 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
Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	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	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
		COPd		2.12	2.18	2.17	
	D Condition (12°CDB/11°CWB)	Pdh	kW	9.0	9.8		
		PERd	%	84.8	87.2	86.8	
	Average climate water outlet 35°C	General	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	
Average climate water outlet 35°C	General	Cdh (Degradation heating)			1.0		
		COPd			5.68	5.69	
		Pdh	kW			5.0	
		PERd	%		227.2	227.6	
Average climate water outlet 35°C	General	Tbiv (bivalent temperature)	COPd	2.12	2.18	2.40	
			Pdh	9.0	9.8	11.0	
			PERd	84.8	87.2	96.0	
			Tbiv		2	3	
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	
		ηs (Seasonal space heating efficiency)	%	190	186	185	
		Prated at -10°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	14	16	17	
Average climate water outlet 35°C	General	SCOP		4.82	4.73	4.70	
		Seasonal space heating eff. class			A+++		
Average climate water outlet 35°C	General	A Condition (-7°CDB/-8°CWB)	COPd	3.07	3.03	2.95	

2 Specifications

2

Technical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1		
Space heating 	Average climate water outlet 35°C	A Condition	Pdh	kW	8.5	9.2	10.1	
		(7°CDB/-8°CWB)	PERd	%	122.8	121.2	118.0	
		B Condition	Cdhd (Degradation heating)			1.0		
			COPd		4.52	4.37	4.35	
		(2°CDB/-B/1°CWB)	Pdh	kW		5.5		6.1
			PERd	%	180.8	174.8	174.0	
		C Condition	Cdhd (Degradation heating)			1.0		
			COPd		6.78	6.74	6.70	
		(7°CDB/-B/6°CWB)	Pdh	kW	4.7		4.6	
			PERd	%	271.2	269.6	268.0	
		D Condition (12°CDB/11°CWB)	Cdhd (Degradation heating)			1.0		
			COPd		8.75	8.54	8.65	
	Pdh		kW	5.5		5.4		
	Tol (temperature operating limit)	PERd			341.6		346.0	
		COPd		2.64	2.58	2.51		
		Pdh	kW	8.3	10.1	11.2		
	Tbiv (bivalent temperature)	PERd			103.2		100.4	
		TOL	°C		-10			
		WTOL	°C		35			
	Rated heat output supplementary capacity	COPd			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			-10			
		Psup (at Tdesign -10°C)	kW	0.7		0.0		
General		Annual energy consumption	kWh	4,980	5,732	6,266		
Warm climate water outlet 35°C	ηs (Seasonal space heating efficiency)			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			
B Condition (2°CDB/-B/1°CWB)	Qhe Annual energy consumption (GCV)		Gj	7	8			
	Cdhd (Degradation heating)			1.0				
	COPd		3.36	3.30	3.45			
C Condition (7°CDB/-B/6°CWB)	Pdh	kW	9.0	10.3	10.8			
	PERd	%	134.4	132.0	138.0			
Space heating 	Warm climate water outlet 35°C	Cdhd (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		
		Cdhd (Degradation heating)			1.0			
		COPd			7.87		7.73	
	D Condition (12°CDB/11°CWB)	Pdh	kW		5.2			
		PERd	%		314.8			
		COPd			3.36	3.30	3.45	
		Pdh	kW	9.0	10.3	10.8		
		PERd	%	134.4	132.0	138.0		
		Tbiv	°C		2			
Control systems	Class of temperature control			VI				
	Contribution to seasonal space heating efficiency			4				

Electrical specifications		EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Compressor	Starting method		Inverter	

2 Specifications

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

(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)

2 Specifications

Technical specifications					EBLA16D3W17	
Heater capacity	Step 1			kW	3	
Power input	Cooling	Nom.		kW	4.58 (3) / 3.24 (4)	
	Heating	Nom.		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	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			
	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	
		P _s *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	
	Charge			TCO ₂ Eq	2.57	
	Control				Expansion valve	
	Circuits	Quantity				1
Type				FW68DA		
Refrigerant oil	Charged volume			l	1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	

2 Specifications


Technical specifications				EBLA16D3W17	
Safety devices	Item	01		High pressure switch	
		02		Low pressure switch	
Safety devices	Item	03		Fan driver overload protector	
		04		Fuse	
		05		Compressor motor thermal protector	
Pump	Quantity			1	
	Nr of speeds			PWM	
	Nominal Heating	kPa		71.4	
	ESP unit Cooling	kPa		85.5	
	Power input	W		180	
Water side Heat exchanger	Type			Plate heat exchanger	
	Quantity			1	
	Water volume	l		2.16	
	Water flow rate Heating	l/min	Nom.	45.9 (1) / 45.9 (2)	
	Water flow rate Cooling	l/min	Nom.	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		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
		Name or trademark		Daikin Europe N.V.	
	Product description	Air-to-water heat pump			Yes
		Brine-to-water heat pump			No
		Heat pump combination heater			No
Low-temperature heat pump			No		
General	Product description	Supplementary heater integrated		Yes	
	Water-to-water heat pump			No	
LW(A) Sound power level (according to EN14825)		dB(A)		62.0	
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825	
Space heating general	Air to water unit	Rated airflow (outdoor)	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

2 Specifications

2

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	
			Q _{he} 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
			C Condition (7°CDB/6°CWB)	PERd	%	130.8
				Cdh (Degradation heating)		1.0
				COPd		4.93
			D Condition (12°CDB/11°CWB)	Pdh	kW	4.4
				PERd	%	197.2
				Cdh (Degradation heating)		1.0
			Tol (temperature operating limit)	COPd		6.60
Pdh	kW	5.3				
PERd	%	264.0				
TOL	°C	-10				

2 Specifications

Technical specifications				EBLA16D3W17	
Space heating 	Average climate water outlet 55°C	Tol (temperature operating limit)	WTOL °C	55	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	4.1	
	(bivalent temperature)	Tbiv	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,510
			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/B/1°CWB)	Cd	Cdh (Degradation heating)		1.0
			COPd		2.17
		Pd		kW	9.8
			PERd	%	86.8
	C Condition (7°CDB/B/6°CWB)	Cd	Cdh (Degradation heating)		1.0
			COPd		3.73
	Pd		kW	9.1	
		PERd	%	149.2	
D Condition (12°CDB/11°CWB)	Cd	Cdh (Degradation heating)		1.0	
		COPd		5.69	
		Pdh	kW	5.0	
(bivalent temperature)	Pd		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

2 Specifications

Technical specifications				EBLA16D3W17			
Space heating 	Average climate water outlet 35°C	A Condition (7°CDB/-8°CWB)	Pdh kW	11.2			
			PERd %	114.8			
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.33		
		C Condition (7°CDB/-6°CWB)	Pdh kW		6.7		
			PERd %		173.2		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.83		
		Tol (temperature operating limit)	Pdh kW		4.7		
			PERd %		273.2		
			TOL °C		-10		
		Tbiv (bivalent temperature)	WTOL °C		35		
			COPd		2.48		
			Pdh kW		11.8		
		Rated heat output supplementary capacity	PERd %		99.2		
			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°CDB/-1°CWB)	Cdh (Degradation heating)			1.0			
	COPd			3.30			
	Pdh kW			11.9			
	PERd %			132.0			
Space heating 	Warm climate water outlet 35°C	C Condition (7°CDB/-6°CWB)	COPd	5.64			
			Pdh kW	8.1			
		D Condition (12°CDB/11°CWB)	PERd %	225.6			
			Cdh (Degradation heating)	1.0			
		Tbiv (bivalent temperature)	COPd	7.73			
			Pdh kW	5.2			
			PERd %	309.2			
		Control systems	Class of temperature control			VI	
				Contribution to seasonal space heating efficiency %			4

Electrical specifications		EBLA16D3W17
Compressor	Starting method	Inverter

2 Specifications

Electrical specifications				EBLA16D3W17
Pump	Type			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~
	Running current	Frequency	Hz	50
		Voltage	V	230
	Voltage range	Back-up heater	A	13.0
		Min.	%	-10
	Max.	%	10	
Wiring connections	Type of wires		Select diameter and type according to national and local regulations	
Power supply	Name		W1	
	Phase		3~	
	Frequency	Hz	50	
	Voltage	V	400	
Voltage range	Min.	%	-10	
	Max.	%	10	
Current	Maximum running current	Heating	A	14.0
	Recommended fuses		A	16
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
	R5T	Type of wires		Minimum 2.5 mm ²
		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
	Wiring connections	For power supply	Type of wires	
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)	
Cable requirements	Cooling/ Heating output	Power: 2		
		Remark		Power 6.3A
Cable requirements	Cooling/ Heating output	Quantity		3
		Remark		Minimum 0.75 mm ²

(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)


2 Specifications

Technical specifications					EBLA09DV3		EBLA11DV3		EBLA14DV3		
Power input	Cooling	Nom.		kW	2.79 (3) / 1.71 (4)		3.56 (3) / 2.17 (4)		4.06 (3) / 2.51 (4)		
		Heating	Nom.	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			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						
Fan motor	Speed	Steps	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	Ps*V	Bar*I	Accumulator						
					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					
	Domestic hot water	Water side	Min.	°C	5						
			Max.	°C	22						
		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						
	Charge			TCO2Eq	2.57						
	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

Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3	
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 Heating	kPa	106.5	102.9	97.6		
	ESP unit Cooling	kPa	106.6	99.2	94.1		
	Power input	W		180			
Water side Heat exchanger	Type			Plate heat exchanger			
	Quantity			1			
	Water volume	l		2.16			
	Water Heating Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)		
	flow rate Cooling Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)		
	Insulation material			EPDM type			
Expansion vessel	Heater	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 Max. OU - Tank length	m		10			
	Level dif- ference Max.	m		5			
	Safety valve	bar		3			
	Drain valve / fill valve			Yes			
	Shut off valve			Yes			
	Air purge valve			Yes (Manually)			
	Minimum water volume in the system	l		50 (7)			
	Heater	W		66.0			
	General	Supplier/ Manu- facturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
			Name or trademark	Daikin Europe N.V.			
Product descrip- tion		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					
General	Product descrip- tion	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

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-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			

2 Specifications

Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3	
Space heating	Average climate water outlet 55°C	Tbiv	COPd	1.92	1.90	2.09	
		(bivalent tempera- ture)	Pdh kW	8.8	9.3	9.4	
			PERd %	76.8	76.0	83.6	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376	8,196	8,808
			ηs (Seasonal space heating efficiency)	%	117		120
		Prated at -22°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	27	30	32	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690
			ηs (Seasonal space heating efficiency)	%	168	170	172
		Prated at 2°C	kW	9.0	10.0	12.1	
		Qhe Annual energy consumption (GCV)	Gj	10	11	13	
	B Condition (2°CDB/1°CWB)	CdH (Degradation heating)			1.0		
		COPd		2.12	2.18	2.17	
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)			1.0		
		COPd		3.65	3.74	3.83	
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			1.0		
		COPd		5.68		5.69	
	Tbiv (bivalent tempera- ture)	Pdh	kW		5.0		
		PERd	%	227.2		227.6	
	Tbiv (bivalent tempera- ture)	COPd		2.12	2.18	2.40	
		Pdh kW		9.0	9.8	11.0	
Tbiv (bivalent tempera- ture)	PERd	%	84.8	87.2	96.0		
	Tbiv °C		2		3		
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	
		ηs (Seasonal space heating efficiency)	%	190	186	185	
	Prated at -10°C	kW	9.0	10.0	11.0		
	Qhe Annual energy consumption (GCV)	Gj	14	16	17		
	SCOP		4.82	4.73	4.70		
	Seasonal space heating eff. class			A+++			
A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95		
	Pdh kW		8.5	9.2	10.1		
	PERd	%	122.8	121.2	118.0		

2 Specifications

Technical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3	
Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd	4.52	4.37	4.35	
			Pdh kW		5.5	6.1	
		PERd %		180.8	174.8	174.0	
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
				COPd	6.78	6.74	6.70
		Pdh kW		4.7		4.6	
		PERd %		271.2	269.6	268.0	
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
				COPd	8.75	8.54	8.65
	Pdh kW	5.5			5.4		
	PERd %		350.0	341.6	346.0		
		Tol (temperature operating limit)	COPd	2.64	2.58	2.51	
			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°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			
Space heating	Warm climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd %	223.6	228.0	230.8	
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
				COPd		7.87	7.73
	Pdh kW			5.2			
	PERd %		314.8		309.2		
		Tbiv (bivalent temperature)	COPd	3.36	3.30	3.45	
Pdh kW			9.0	10.3	10.8		
PERd %	134.4		132.0	138.0			
Tbiv °C			2				
	Control systems	Class of temperature control		VI			
Contribution to seasonal space heating efficiency %				4			

Electrical specifications		EBLA09DV3	EBLA11DV3	EBLA14DV3
Compressor	Starting method		Inverter	
Pump	Type		PWM	

2 Specifications

Electrical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Compressor component	Main power supply	Phase Voltage	V		1~ 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	
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	Nom.	kW	4.58 (3) / 3.24 (4)
	Heating	Nom.	kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
EER				3.06 (3) / 4.74 (4)
SEER				5.59 (5)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate

2 Specifications

Technical specifications				EBLA16DV37		
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			147		
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	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		
Drive			Direct drive			
Compressor	Quantity			1		
	Model			2Y350BPAX1P#C		
	Type			Hermetically sealed swing compressor		
PED	Category			Category II		
	Most critical part	Name			Accumulator	
		Ps*V	Bar*I	159		
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	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		
	Charge			TCO2Eq		
	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			
Safety devices	Item	01			Inverter controlled	
		02			High pressure switch	
		03			Low pressure switch	
Safety devices	Item	04			Fan driver overload protector	
		05			Fuse	
					Compressor motor thermal protector	

2 Specifications

Technical specifications				EBLA16DV37
Pump	Quantity			1
	Nr of speeds			PWM
	Nominal	Heating	kPa	76.7
	ESP unit	Cooling	kPa	88.4
	Power input			W
Water side Heat exchanger	Type			Plate heat exchanger
	Quantity			1
	Water volume			l
	Water	Heating	Nom.	l/min
	flow rate	Cooling	Nom.	l/min
	Insulation material			EPDM type
	Heater			W
Expansion vessel	Volume			l
	Max. water pressure			bar
	Pre pressure			bar
	Heater			W
	Diameter perforations			mm
Water filter	Material			Stainless steel
	Diameter perforations			mm
Water circuit	Piping connections diameter			inch
	Piping			inch
	Piping	Max.	OU - Tank	m
	length			
	Level dif-	Max.		m
	ference			
	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/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
	Manu-	Name or trademark		Daikin Europe N.V.
	facturer			
	details			
	Product	Air-to-water heat pump		Yes
	descrip-	Brine-to-water heat pump		No
tion	Heat pump combination heater		No	
	Low-temperature heat pump		No	
	Supplementary heater integrated		No	
General	Product	Water-to-water heat pump		No
	descrip-			
	tion			
LW(A) Sound power level (according to EN14825)				dB(A)
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)		m ³ /h
				5,100
	Other	Capacity control		Inverter
		Pck (Crankcase heater mode)	kW	0.000
		Poff (Off mode)	kW	0.023
		Psb (Standby mode)	kW	0.023
Pto (Thermostat off)	kW	0.023		

2 Specifications

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/-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		

2 Specifications

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

2 Specifications

Technical specifications				EBLA16DV37	
Space heating	Average climate water outlet 35°C	B Condition (2°CDB/1°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 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°CDB/1°CWB)	Cdh (Degradation heating)	1.0		
		COPd	3.30		
		Pdh kW	11.9		
		PERd %	132.0		
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0			
	COPd	5.64			
	Pdh kW	8.1			
	PERd %	225.6			
Space heating	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0	
			COPd	7.73	
			Pdh kW	5.2	
			PERd %	309.2	
		Tbiv (bivalent temperature)	COPd	3.30	
			Pdh kW	11.9	
			PERd %	132.0	
			Tbiv °C	2	
		Control systems	Class of temperature control		VI
			Contribution to seasonal space heating efficiency %		4

Electrical specifications		EBLA16DV37
Compressor	Starting method	Inverter
Pump	Type	PWM

2 Specifications

Electrical specifications				EBLA16DV37
Compressor component	Main power supply	Phase Voltage	V	1~ 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
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	Step 1		kW		3	
Power input	Cooling	Nom.	kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating	Nom.	kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER				3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER				5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour				Silver	
	Material				Polyester painted galvanised steel plate	

2 Specifications


Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
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	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*I	159			
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type	R-32					
	GWP	675.0					
	Charge		kg	3.80			
	Charge		TCO2Eq	2.57			
	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				
Safety devices	Item	03	Fan driver overload protector				
		04	Fuse				
		05	Compressor motor thermal protector				

2 Specifications

Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Pump	Quantity			1		
	Nr of speeds			PWM		
	Nominal Heating		kPa	106.9	102.7	96.5
	ESP unit Cooling		kPa	107.0	98.4	92.3
	Power input			W		
Water side Heat exchanger	Type			Plate heat exchanger		
	Quantity			1		
	Water volume			l		
	Water Heating Nom.		l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
	flow rate 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		
	Diameter perforations			mm		
Water filter	Material			Stainless steel		
	Piping connections diameter			inch		
Water circuit	Piping			inch		
	Piping Max.	OU - Tank	m	10		
	length					
	Level dif- ference	Max.	m	5		
	Safety valve			bar		
	Drain valve / fill valve			Yes		
	Shut off valve			Yes		
	Air purge valve			Yes		
	Minimum water volume in the system			l		
	Heater			W		
	General	Supplier/ Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
Manu- Name or trademark			Daikin Europe N.V.			
Product Air-to-water heat pump			Yes			
descrip- Brine-to-water heat pump			No			
tion Heat pump combination heater			No			
General	Product Low-temperature heat pump			No		
	Product Supplementary heater integrated			Yes		
LW(A) Sound power level (according to EN14825)	Product Water-to-water heat pump			No		
	Sound condition Ecodesign and energy label			dB(A)		
Space heating general	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		

2 Specifications

2

Technical specifications			EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh	5,404	6,134	6,651
		ηs (Seasonal space heating efficiency) %	135	132	134	
		Prated at -10°C kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV) GJ	19	22	24	
		SCOP	3.44	3.37	3.42	
		Seasonal space heating eff. class	A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0		
			COPd	2.09	1.90	2.02
			Pdh kW	8.5	9.3	9.4
			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				

2 Specifications

Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Space heating 	Average climate water outlet 55°C	Tol (temperature operating limit)	WTOL °C		55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376	8,196	8,808
			ηs (Seasonal space heating efficiency)	%		117	120
		Prated at -22°C	kW	9.0	10.0	11.0	
		Qhe Annual energy consumption (GCV)	Gj	27	30	32	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690
			ηs (Seasonal space heating efficiency)	%	168	170	172
			Prated at 2°C	kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV)	Gj	10	11	13
B Condition (2°CDB/1°CWB)		CdH (Degradation heating)	COPd		1.0	2.17	
			PdH	kW	2.12	2.18	9.8
C Condition (7°CDB/6°CWB)		CdH (Degradation heating)	COPd		1.0	3.83	
			PdH	kW	3.65	3.74	6.2
D Condition (12°CDB/11°CWB)		CdH (Degradation heating)	COPd		1.0	153.2	
			PdH	kW	146.0	149.6	227.2
	PERd		%		227.2	227.6	
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	
A Condition (-7°CDB/-8°CWB)	Seasonal space heating eff. class	SCOP		4.82	4.73	4.70	
		COPd		3.07	3.03	2.95	
		PERd	%		A+++		

2 Specifications

Technical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Space heating 	Average climate water outlet 35°C	A Condition (7°CDB/-8°CWB)	Pdh kW	8.5	9.2	10.1	
			PERd %	122.8	121.2	118.0	
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)		1.0		
			COPd		4.52	4.37	4.35
			Pdh kW	5.5		6.1	
			PERd %	180.8	174.8	174.0	
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh kW	4.7	4.6		
			PERd %	271.2	269.6	268.0	
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)		1.0		
			COPd		8.75	8.54	8.65
	Pdh kW			5.5	5.4		
		PERd %	350.0	341.6	346.0		
	Tol (temperature operating limit)	COPd		2.64	2.58	2.51	
		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	
	Rated heat output supplementary capacity	Tbiv °C		-9			
		Psup (at Tdesign -10°C) kW		0.7			
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°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				
Space heating 	Warm climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd	5.59	5.70	5.77	
			Pdh kW	5.9	6.7	7.4	
			PERd %	223.6	228.0	230.8	
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)		1.0		
			COPd		7.87		7.73
		Pdh kW	5.2				
		PERd %	314.8		309.2		
	Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45	
		Pdh kW		9.0	10.3	10.8	
		PERd %		134.4	132.0	138.0	
	Tbiv °C		2				
Control systems	Class of temperature control			VI			
	Contribution to seasonal space heating efficiency %			4			

Electrical specifications		EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Compressor	Starting method	Inverter		

2 Specifications

Electrical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3	
Pump	Type					PWM	
Compressor component	Main power supply	Phase				1~	
		Voltage	V			230	
	Voltage range	Min.	%			-10	
		Max.	%			10	
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	Quantity				3G	
		Type of wires				Minimum 2.5 mm ²	
	R5T	Quantity					2
		Type of wires					Wire included in option EKHWS*
	For connection with R6T	Quantity					2
		Remark					Minimum 0.75 mm ²
	A3P	Quantity					4
		Type of wires					Select diameter and type according to national and local regulations
	M2S	Quantity					2
		Type of wires					Select diameter and type according to national and local regulations
	M3S	Quantity					3
		Type of wires					Select diameter and type according to national and local regulations
Wiring connections	For power supply	Quantity				2	
		Type of wires				Wire included in option EKFLSW1	
	For connection with user interface	Quantity					2G
		Remark					See installation manual outdoor unit
	Preferential kWh rate power supply	Quantity					4
		Remark					0.75 mm ² till 1.25 mm ² (max length 200 m)
	Domestic hot water pump	Type of wires					0,75 ~1,25 mm ² (P1P2)
		Quantity					Power: 2
	Cable requirements	Cooling/ Heating output	Remark				Power 6.3A
			Quantity				3
Cable requirements	Cooling/ Heating output	Remark				Minimum 0.75 mm ²	
		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)

2 Specifications

Technical specifications					EBLA16D3V37	
Heater capacity	Step 1			kW	3	
Power input	Cooling	Nom.		kW	4.58 (3) / 3.24 (4)	
	Heating	Nom.		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	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				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	
		P _s *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	
	Charge			TCO ₂ Eq	2.57	
	Control				Expansion valve	
	Circuits	Quantity				1
Type				FW68DA		
Refrigerant oil	Charged volume			l	1.35	
Defrost method					Reversed cycle	
Defrost control					Sensor for outdoor heat exchanger temperature	
Capacity control	Method				Inverter controlled	

2 Specifications

Technical specifications				EBLA16D3V37	
Safety devices	Item	01		High pressure switch	
		02		Low pressure switch	
	Item	03		Fan driver overload protector	
		04		Fuse	
		05		Compressor motor thermal protector	
Pump	Quantity			1	
	Nr of speeds			PWM	
	Nominal	Heating	kPa	71.4	
	ESP unit	Cooling	kPa	85.5	
	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	45.9 (1) / 45.9 (2)	
		Cooling Nom.	l/min	40.2 (3) / 43.9 (4)	
	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 (7)	
	Heater		W	66.0	
General	Supplier/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
	Manu- facturer details	Name or trademark		Daikin Europe N.V.	
	Product descrip- tion	Air-to-water heat pump		Yes	
		Brine-to-water heat pump		No	
		Heat pump combination heater		No	
Low-temperature heat pump		No			
General	Product descrip- tion	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		
	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	
	Inte- grated supple- mentary heater	Type of energy input			Electrical

2 Specifications

2

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	
			Q _{he} 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
			C Condition (7°CDB/6°CWB)	PERd	%	130.8
				Cdh (Degradation heating)		1.0
				COPd		4.93
			D Condition (12°CDB/11°CWB)	Pdh	kW	4.4
				PERd	%	197.2
				Cdh (Degradation heating)		1.0
			Tol (temperature operating limit)	COPd		6.60
Pdh	kW	5.3				
PERd	%	264.0				
TOL	°C	-10				

2 Specifications

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

2 Specifications

2

Technical specifications				EBLA16D3V37	
Space heating 	Average climate water outlet 35°C	A Condition (7°CDB/-8°CWB)	Pdh kW	11.2	
			PERd %	114.8	
		B Condition (2°CDB/-1°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 kW	11.8	
			PERd %	99.2	
			TOL °C	-10	
			WTOL °C	35	
		Tbiv (bivalent temperature)	COPd	2.48	
			Pdh kW	11.8	
			PERd %	99.2	
			Tbiv °C	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245	
		ηs (Seasonal space heating efficiency)	%	160	
		Prated at -22°C	kW	12.0	
		Qhe Annual energy consumption (GCV)	Gj	26	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
Space heating 	Warm climate water outlet 35°C	B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1.0	
			COPd	3.30	
			Pdh kW	11.9	
			PERd %	132.0	
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)	1.0	
			COPd	5.64	
			Pdh kW	8.1	
			PERd %	225.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0	
			COPd	7.73	
	Pdh kW	5.2			
	PERd %	309.2			
	Tbiv (bivalent temperature)	COPd	3.30		
	Pdh kW	11.9			
	PERd %	132.0			
	Tbiv °C	2			
Control systems	Class of temperature control			VI	
	Contribution to seasonal space heating efficiency		%	4	

Electrical specifications		EBLA16D3V37
Compressor	Starting method	Inverter

2 Specifications

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

(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	Nom.	kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)

2 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1			
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					
	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			13					
		Face area				m ²				
	Stages	Quantity			38					
		Empty tubeplate hole				Quantity				
	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
	Fan motor				Quantity					
Model				Brushless DC motor						
Speed	Steps	rpm			8					
		Heating	Nom.	rpm		400		450		550
Output				W						
Drive				Direct drive						
Compressor	Quantity				1					
Compressor	Model				2Y350BPAY1P#C					
	Type				Hermetically sealed swing compressor					
PED	Category				Category II					
	Most critical part	Name			Accumulator					
		Ps*V	Bar*I		159					
Operation range	Heating	Ambient	Min.	°CDB	-25					
			Max.	°CDB	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					
	Charge				TCO2Eq					
	Control				Expansion valve					
	Circuits	Quantity			1					
Refrigerant oil				Type						
Charged volume				l						
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						
					Compressor motor thermal protector					
Pump	Quantity				1					
	Nr of speeds				PWM					
	Nominal Heating ESP unit	kPa			106.5		102.9		97.6	
		Power input				W				


2 Specifications

Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1	
Water side Heat exchanger	Type	Plate heat exchanger					
	Quantity	1					
	Water volume	l	2.16				
	Water Heating flow rate	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 Max. length	OU - Tank m	10				
	Level dif- ference	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				
General	Supplier/ Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
	Manu- Name or trademark	Daikin Europe N.V.					
	facturer details						
	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			
	General	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 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	

2 Specifications

Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1		
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)	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			
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)		kW	2.2	2.4	3.2		
		Tbiv	COPd	1.92	1.90	2.09		
		Pdh	kW	8.8	9.3	9.4		
		PERd	%	76.8	76.0	83.6		
Cold climate water outlet 55°C	General	Tbiv	°C	-8	-7	-6		
		Annual energy consumption	kWh	7,142	7,899	8,858		
		ηs (Seasonal space heating efficiency)	%	121	122	119		
		Prated at -22°C	kW	9.0	10.0	11.0		
		Qhe Annual energy consumption (GCV)	Gj	26	28	32		
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,921	3,184	3,792		
		ηs (Seasonal space heating efficiency)	%	162	165	168		
		Prated at 2°C	kW	9.0	10.0	12.1		
		Qhe Annual energy consumption (GCV)	Gj		11	14		

2 Specifications

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

2 Specifications

2

Technical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1	
Space heating	Average climate water outlet 35°C	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	
	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)		Cd (Degradation heating)	COPd		3.36	3.30	3.45
			Pdh kW		9.0	10.3	10.8
			PERd %		134.4	132.0	138.0
						1.0	
						5.59	5.70
C Condition (7°CDB/6°CWB)	Cd (Degradation heating)	COPd		5.59	5.70	5.77	
		Pdh kW		5.9	6.7	7.4	
		PERd %		223.6	228.0	230.8	
					1.0		
					7.87		7.73
D Condition (12°CDB/11°CWB)	Cd (Degradation heating)	COPd		7.87		7.73	
		Pdh kW			5.2		
		PERd %		314.8		309.2	
					3.36	3.30	3.45
					9.0	10.3	10.8
Control systems	Class of temperature control				VI		
		Contribution to seasonal space heating efficiency	%		4		

Electrical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Compressor	Starting method				Inverter	
Pump	Type				PWM	
Compressor component	Main power supply	Phase			3N~	
		Voltage	V		400	
		Voltage range	Min. %		-10	
		Max. %		10		
Power supply	Name				W1	
	Phase				3~	
	Frequency			Hz	50	
	Voltage			V	400	
Voltage range	Min.			%	-10	
	Max.			%	10	
Current	Maximum running current	Heating	A		14.0	
		Recommended fuses	A		16	

2 Specifications

Electrical specifications			EDLA09DW1	EDLA11DW1	EDLA14DW1
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		
	Remark		Minimum 0.75 mm ²		
Wiring connections	Domestic hot water pump	Remark			
Cable requirements	Cooling/ Heating output	Maximum running current A		3	

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

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

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

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

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

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

According to EN14825

Technical specifications				EDLA16DW17	
Heating capacity	Nom.		kW	16.0 (1) / 16.0 (2)	
Power input	Heating	Nom.	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

2 Specifications

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		Ps*V	Bar*I	Accumulator 159
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	25 (3)	
	Water side	Domestic hot water	Min.	°C	9 (3)	
			Max.	°C	60 (3)	
	Water side	Domestic hot water	Min.	°CDB	-25	
			Max.	°CDB	35	
	Water side	Domestic hot water	Min.	°C	25	
			Max.	°C	55 (3)	
Refrigerant	Type				R-32	
	GWP				675.0	
	Charge				kg	3.80
	Charge				TCO2Eq	2.57
	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	Heating		kPa	76.7	
	ESP unit					
Power input				W	180	
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume				l	2.16
Water side Heat exchanger	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 (Manually)
	Minimum water volume in the system				l	50 (4)
	Heater				W	66.0

2 Specifications

Technical specifications			EDLA16DW17		
General	Supplier/	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
	Manu- facturer details	Name or trademark	Daikin Europe N.V.		
	Product descrip- tion	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	

2 Specifications

Technical specifications				EDLA16DW17		
Space heating	Average climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	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	
			C Condition (7°CDB/6°CWB)	PERd %	130.8	
				Cdh (Degradation heating)	1.0	
				COPd	4.93	
			D Condition (12°CDB/11°CWB)	Pdh kW	4.4	
				PERd %	197.2	
				Cdh (Degradation heating)	1.0	
			Tol (temperature operating limit)	COPd	6.60	
				Pdh kW	5.3	
				PERd %	264.0	
				TOL °C	1.67	
				WTOL °C	8.0	
			Rated heat output supplementary capacity	Tbiv (bivalent temperature)	Psup (at Tdesign -10°C) kW	66.8
					COPd	-10
Pdh kW	55					
PERd %	4.1					
Tbiv °C	2.13					
COPd	10.1					
Pdh kW	85.2					
PERd %	-5					
Tbiv °C	9,561					
Cold climate water outlet 55°C	General	Annual energy consumption kWh			121	
		ηs (Seasonal space heating efficiency) %	12.0			
		Prated at -22°C kW	34			
		Qhe Annual energy consumption (GCV) GJ	4,519			
		Prated at 2°C kW	164			
Warm climate water outlet 55°C	General	Annual energy consumption kWh	14.1			
		ηs (Seasonal space heating efficiency) %	16			
		Prated at 2°C kW	16			
		Qhe Annual energy consumption (GCV) GJ	16			

2 Specifications

Technical specifications			EDLA16DW17	
Space heating	Warm climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating) COPd	1.0
			Pdh kW	2.17
			PERd %	9.8
				86.8
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd
			Pdh kW	3.73
			PERd %	9.1
				149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd	1.0
			Pdh kW	5.69
		PERd %	5.0	
			227.6	
	Tbiv (bivalent temperature)	COPd		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°CDB/-8°CWB)	COPd	2.87
			Pdh kW	11.2
			PERd %	114.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating) COPd	1.0
		Pdh kW	4.33	
		PERd %	6.7	
			173.2	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd	1.0	
		Pdh kW	6.83	
		PERd %	4.7	
			273.2	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd	1.0	
		Pdh kW	8.82	
		PERd %	5.5	
			352.8	

2 Specifications

Technical specifications				EDLA16DW17	
Space heating	Average climate water outlet 35°C	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		132.0
			Pdh kW		1.0
			PERd %		5.64
D Condition (12°CDB/11°CWB)		CdH (Degradation heating)	COPd		8.1
			Pdh kW		225.6
			PERd %		1.0
			COPd		7.73
	Pdh kW			5.2	
	PERd %			309.2	
Tbiv (bivalent temperature)	COPd			3.30	
		Pdh kW		11.9	
		PERd %		132.0	
	Tbiv °C			2	
Control systems	Class of temperature control			VI	
	Contribution to seasonal space heating efficiency			4	

Electrical specifications				EDLA16DW17
Compressor	Starting method			Inverter
Pump	Type			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
Current	Maximum running current	Heating	A	14.0
		Recommended fuses	A	16

2 Specifications

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	Nom.	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		

2 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	
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	
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Speed	Steps			8			
		Heating	Nom.	rpm	400	450	550	
	Output	W			234			
Compressor	Drive				Direct drive			
	Quantity				1			
	Model				2Y350BPAY1P#C			
PED	Type				Hermetically sealed swing compressor			
	Category				Category II			
	Most critical part	Name	Ps*V	Bar*I	Accumulator 159			
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			
	Charge Control	TCO2Eq			2.57			
	Circuits	Quantity				Expansion valve 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 unit	Heating	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 side Heat exchanger	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				
	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			

2 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Water circuit	Piping connections diameter	inch				G 1" (male)	
	Piping	inch				1-1/4"	
	Piping Max. length	OU - Tank	m				10
	Level dif- ference	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
General	Supplier/ Manu- facturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium				
		Name or trademark	Daikin Europe N.V.				
	Product descrip- tion	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			
	Inte- grated 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

2 Specifications

Technical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1		
Space heating	Average climate water outlet 55°C	General	η_s (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	
			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/B/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/B/6°CWB)	Pdh	kW	5.0	5.4	6.2
				PERd	%	131.2	130.0	131.2
				Cdh (Degradation heating)			1.0	
			D Condition (12°CDB/11°CWB)	COPd		4.80	4.81	4.88
				Pdh	kW		4.4	
				PERd	%	192.0	192.4	195.2
			Tol (temperature operating limit)	Cdh (Degradation heating)			1.0	
				COPd		6.45	6.41	6.58
				Pdh	kW		5.3	
				PERd	%	258.0	256.4	263.2
				COPd		1.70	1.64	1.70
			Rated heat output supplementary capacity	Pdh	kW	6.8	7.6	7.8
				PERd	%	68.0	65.6	68.0
				TOL	°C		-10	
				WTOL	°C		55	
				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			
	Annual energy consumption	kWh	7,142	7,899	8,858			
Cold climate water outlet 55°C	General	η_s (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		
		Annual energy consumption	kWh	2,921	3,184	3,792		
Warm climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%	162	165	168		

2 Specifications

Technical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1		
Space heating	Warm climate water outlet 55°C	General	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)	Cd	Cdh (Degradation heating)		1.0		
				COPd		2.12	2.18	2.17
		Pd	Pdh	kW	9.0	9.8		
			PERd	%	84.8	87.2	86.8	
		C Condition (7°CDB/6°CWB)	Cd	Cdh (Degradation heating)		1.0		
				COPd		3.65	3.74	3.83
		Pd	Pdh	kW		6.2	7.6	
			PERd	%	146.0	149.6	153.2	
	D Condition (12°CDB/11°CWB)	Cd	Cdh (Degradation heating)		1.0			
			COPd		5.68		5.69	
	Pd	Pdh	kW		5.0			
		PERd	%	227.2		227.6		
	Tbiv (bivalent temperature)	COPd	COPd		2.12	2.18	2.40	
			Pdh	kW	9.0	9.8	11.0	
	Tbiv	PERd	PERd	%	84.8	87.2	96.0	
			Tbiv	°C	2		3	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	4,456	4,923	
			ηs (Seasonal space heating efficiency)	%	186	182		
Prated at -10°C		Qhe Annual energy consumption (GCV)	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)		Pd	COPd		3.07	3.03	2.95	
			Pdh	kW	8.5	9.2	10.1	
			PERd	%	122.8	121.2	118.0	
B Condition (2°CDB/1°CWB)		Cd	Cdh (Degradation heating)		1.0			
	COPd			4.52	4.37	4.35		
Pd	Pdh	kW	4.5	5.5	6.1			
	PERd	%	180.8	174.8	174.0			
C Condition (7°CDB/6°CWB)	Cd	Cdh (Degradation heating)		1.0				
		COPd		6.78	6.74	6.70		
Pd	Pdh	kW	4.7	4.6				
	PERd	%	271.2	269.6	268.0			
D Condition (12°CDB/11°CWB)	Cd	Cdh (Degradation heating)		1.0				
		COPd		8.75	8.54	8.65		

2 Specifications

Technical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1		
Space heating	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW	5.5	5.4		
		Tol (temperature operating limit)	COPd	%	350.0	341.6	346.0	
			Pdh	kW	2.64	2.58	2.51	
			PERd	%	8.3	10.1	11.2	
			TOL	°C	105.6	103.2	100.4	
			WTOL	°C		-10		
			Tbiv (bivalent temperature)	COPd		35		
			Pdh	kW	2.75	2.58	2.51	
			PERd	%	8.7	10.1	11.2	
			Tbiv	°C	110.0	103.2	100.4	
					-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)	Cdch (Degradation heating)	COPd		1.0			
			Pdh	kW	3.36	3.30	3.45	
	C Condition (7°CDB/6°CWB)	Cdch (Degradation heating)	COPd		1.0			
			Pdh	kW	9.0	10.3	10.8	
	D Condition (12°CDB/11°CWB)	Cdch (Degradation heating)	COPd		1.0			
			Pdh	kW	134.4	132.0	138.0	
	COPd			1.0				
		Pdh	kW	5.59	5.70	5.77		
	PERd			1.0				
		Tbiv	°C	5.9	6.7	7.4		
	COPd			1.0				
		Pdh	kW	223.6	228.0	230.8		
	PERd			1.0				
		Tbiv	°C	7.87	5.2	7.73		
	COPd			1.0				
		Pdh	kW	314.8		309.2		
	PERd			1.0				
		Tbiv	°C	3.36	3.30	3.45		
	COPd			1.0				
		Pdh	kW	9.0	10.3	10.8		
	PERd			1.0				
		Tbiv	°C	134.4	132.0	138.0		
Control systems	Class of temperature control			VI				
				4				
Control systems	Contribution to seasonal space heating efficiency			4				

Electrical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Compressor	Starting method			Inverter		
Pump	Type			PWM		
Compressor component	Main power supply	Phase		3N~		
		Voltage	V	400		
	Voltage range	Min.	%	-10		
		Max.	%	10		

2 Specifications

Electrical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1	
Hydraulic component	Back-up heater	Type			3V3		
		Power supply	Phase		1~		
	current	Frequency	Hz		50		
			Voltage		230		
		Running current	Back-up heater	A		13.0	
	Voltage range	Min.	%		-10		
		Max.	%		10		
Wiring connections	Type of wires	Select diameter and type according to national and local regulations					
Power supply	Name	W1					
	Phase	3~					
	Frequency	Hz	50				
	Voltage	V	400				
Voltage range	Min.	%	-10				
	Max.	%	10				
Current	Maximum running current	Heating	A	14.0			
		Recommended fuses	A	16			
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G			
		Type of wires		Minimum 2.5 mm ²			
	R5T	Quantity		2			
		Type of wires		Wire included in option EKHWS*			
	For connection with R6T	Quantity		2			
		Remark		Minimum 0.75 mm ²			
	A3P	Quantity		4			
		Type of wires		Select diameter and type according to national and local regulations			
	M2S	Quantity		2			
		Type of wires		Select diameter and type according to national and local regulations			
M3S	Quantity		3				
	Type of wires		Select diameter and type according to national and local regulations				
Wiring connections	For power supply	Quantity		2			
		Type of wires		Wire included in option EKFLSW1			
	For connection with user interface	Quantity		4G			
		Remark		See installation manual outdoor unit			
	Preferential power supply	Quantity		4			
		Remark		0.75 mm ² till 1.25 mm ² (max length 200 m)			
	Domestic hot water pump	Quantity		0,75 ~1,25 mm ² (P1P2)			
		Remark		Power: 2 Power 6.3A			
	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	Step 1		kW	3
Power input	Heating	Nom.	kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour	Silver		
	Material	Polyester painted galvanised steel plate		

2 Specifications

Technical specifications					EDLA16D3W17
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
Fan motor	Quantity	1			
	Model	Brushless DC motor			
	Speed	Steps			8
		Heating	Nom.	rpm	650
	Output			W	234
Compressor	Drive	Direct drive			
	Quantity	1			
	Model	2Y350BPAY1P#C			
PED	Type	Hermetically sealed swing compressor			
	Category	Category II			
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
	Domestic hot water	Water side	Min.	°C	15 (3)
Max.			°C	60 (3)	
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
	Charge		TCO ₂ Eq		2.57
	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	Heating	kPa		71.4
	ESP unit				
	Power input		W		180
Water side Heat exchanger	Type	Plate heat exchanger			
	Quantity	1			
	Water volume		l		2.16


2 Specifications

Technical specifications				EDLA16D3W17	
Water side Heat exchanger	Water Heating flow rate	Nom.	l/min	45.9 (1) / 45.9 (2)	
	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 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 (4)
	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
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

2 Specifications


Technical specifications				EDLA16D3W17		
Space heating	Average climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%	130	
			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		
		η_s (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	η_s (Seasonal space heating efficiency)	%	164		

2 Specifications

Technical specifications			EDLA16D3W17			
Space heating 	Warm climate water outlet 55°C	General	Prated at 2°C	kW	14.1	
			Qhe Annual energy consumption (GCV)	Gj		16
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0
			COPd			2.17
			Pdh	kW		9.8
			PERd	%		86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0
			COPd			3.73
			Pdh	kW		9.1
			PERd	%		149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			COPd			5.69
			Pdh	kW		5.0
			PERd	%		227.6
		Average climate water outlet 35°C	General	Tbiv (bivalent temperature)	COPd	
	Pdh			kW	12.1	
	PERd			%	100.4	
	Tbiv			°C	4	
	Annual energy consumption			kWh	5,366	
	ηs (Seasonal space heating efficiency)			%	182	
	Prated at -10°C			kW	12.0	
	Qhe Annual energy consumption (GCV)			Gj	19	
	SCOP				4.62	
	Seasonal space heating eff. class				A+++	
A Condition (7°CDB/-8°CWB)	COPd				2.87	
	Pdh			kW	11.2	
	PERd			%	114.8	
B Condition (2°CDB/1°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			

2 Specifications

2

Technical specifications				EDLA16D3W17	
Space heating 	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
		Tbiv	°C	-10	
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296
			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)		Cd	Cd (Degradation heating)		1.0
			COPd		3.30
Pdh		kWh	Pdh		11.9
			PERd	%	132.0
C Condition (7°CDB/6°CWB)		Cd	Cd (Degradation heating)		1.0
			COPd		5.64
Pdh	kWh	Pdh		8.1	
		PERd	%	225.6	
D Condition (12°CDB/11°CWB)	Cd	Cd (Degradation heating)		1.0	
		COPd		7.73	
Pdh	kWh	Pdh		5.2	
		PERd	%	309.2	
Tbiv (bivalent temperature)	COPd	Tbiv		3.30	
		Pdh	kWh	11.9	
	PERd			132.0	
		Tbiv	°C	2	
Control systems	Class of temperature control			VI	
Control systems	Contribution to seasonal space heating efficiency			4	

Electrical specifications				EDLA16D3W17	
Compressor	Starting method			Inverter	
Pump	Type			PWM	
Compressor component	Main power supply	Phase	Voltage	V	3N~
	Voltage range	Min.	%		-10
		Max.	%		10

2 Specifications

Electrical specifications				EDLA16D3W17
Hydraulic component	Back-up heater	Type		3V3
		Power supply	Phase	1~
	current	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	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
Wiring connections	Optional domestic hot water tank + Q2L	Quantity	3G	
		Type of wires	Minimum 2.5 mm ²	
	R5T	Quantity	2	
		Type of wires	Wire included in option EKHWS*	
	For connection with R6T	Quantity	2	
		Remark	Minimum 0.75 mm ²	
	A3P	Quantity	4	
		Type of wires	Select diameter and type according to national and local regulations	
	M2S	Quantity	2	
		Type of wires	Select diameter and type according to national and local regulations	
	M3S	Quantity	3	
		Type of wires	Select diameter and type according to national and local regulations	
	Wiring connections	Quantity	2	
		Type of wires	Wire included in option EKFLSW1	
For power supply connection with user interface	For power supply	Quantity	4G	
		Remark	See installation manual outdoor unit	
	For connection with user interface	Quantity	4	
		Remark	0.75 mm ² till 1.25 mm ² (max length 200 m)	
		Type of wires	0,75 ~1,25 mm ² (P1P2)	
	Preferential kWh rate power supply	Quantity	Power: 2	
		Remark	Power 6.3A	
Domestic hot water pump	Quantity	3		
	Remark	Minimum 0.75 mm ²		
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

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

(3)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)
	Heating	Nom.	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				

2 Specifications

2

Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3
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			
	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
Fan motor	Quantity			1			
	Model			Brushless DC motor			
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
Compressor	Output			W			
	Drive			Direct drive			
Compressor	Quantity			1			
Compressor	Model			2Y350BPAX1P#C			
PED	Type			Hermetically sealed swing compressor			
	Category			Category II			
	Most critical part	Name			Accumulator		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	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			
	Charge			TCO ₂ Eq			
	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 Heating			kPa			
	ESP unit			106.5			
	Power input			W			


2 Specifications

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3	
Water side Heat exchanger	Type	Plate heat exchanger					
	Quantity	1					
	Water volume	l	2.16				
	Water Heating flow rate	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 Max. length	OU - Tank m	10				
	Level dif- ference	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				
General	Supplier/ Manu- facturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium				
		Name or trademark	Daikin Europe N.V.				
	Product descrip- tion	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	Air to water	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	

2 Specifications

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3					
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)	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	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			
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	Psup	kW	2.2	2.4	3.2		
					Tbiv (bivalent temperature)	COPd	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					
Qhe Annual energy consumption (GCV)	Gj				11	14					

2 Specifications

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

2 Specifications

2

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3	
Space heating	Average climate water outlet 35°C	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 COPd	2.75	2.58	2.51	
	Cold climate water outlet 35°C	General		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
				Annual energy consumption kWh	5,402	5,783	6,317
				ηs (Seasonal space heating efficiency) %	161	168	169
	Warm climate water outlet 35°C	General		Prated at -22°C kW	10.0		11.0
				Qhe Annual energy consumption (GCV) GJ	19	21	23
				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)		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)		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)		COPd		7.87	7.73
				Pdh kW		5.2	
				PERd %		314.8	309.2
Tbiv (bivalent temperature)	COPd		Pdh kW	3.36	3.30	3.45	
			PERd %	134.4	132.0	138.0	
			Tbiv °C		2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency %				4		

Electrical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Compressor	Starting method				Inverter	
Pump	Type				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

2 Specifications

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		
	Remark				
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	Nom.	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

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		Ps*V	Bar*I	Accumulator 159
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	25 (3)	
	Water side	Domestic hot water	Min.	°C	9 (3)	
			Max.	°C	60 (3)	
	Water side	Domestic hot water	Min.	°CDB	-25	
			Max.	°CDB	35	
	Water side	Domestic hot water	Min.	°C	25	
			Max.	°C	55 (3)	
Refrigerant	Type				R-32	
	GWP				675.0	
	Charge				kg	3.80
	Charge				TCO2Eq	2.57
	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	Heating		kPa	76.7	
	ESP unit					
	Power input				W	180
Water side Heat exchanger	Type				Plate heat exchanger	
	Quantity				1	
	Water volume				l	2.16
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)	
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 (Manually)
	Minimum water volume in the system				l	50 (4)
	Heater				W	66.0

2 Specifications

Technical specifications			EDLA16DV37		
General	Supplier/	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
	Manu- facturer details	Name or trademark	Daikin Europe N.V.		
	Product descrip- tion	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	

2 Specifications

Technical specifications				EDLA16DV37
Space heating	Average climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	27
			SCOP	3.33
		A Condition (7°CDB/-8°CWB)	Seasonal space heating eff. class	A++
			Cdh (Degradation heating)	1.0
		B Condition (2°CDB/-1°CWB)	COPd	1.95
			Pdh kW	9.4
			PERd %	78.0
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0
			COPd	3.27
			Pdh kW	6.9
		D Condition (12°CDB/11°CWB)	PERd %	130.8
			Cdh (Degradation heating)	1.0
			COPd	4.93
		Tol (temperature operating limit)	Pdh kW	4.4
			PERd %	197.2
			TOL °C	-10
		Rated heat output supplementary capacity	WTOL °C	55
			Psup (at Tdesign -10°C) kW	4.1
			Tbiv COPd	2.13
		Cold climate water outlet 55°C	(bivalent temperature) Pdh kW	10.1
PERd %	85.2			
Tbiv °C	-5			
Warm climate water outlet 55°C	General	Annual energy consumption kWh	9,650	
	General	ηs (Seasonal space heating efficiency) %	120	
		Prated at -22°C kW	12.0	
		Qhe Annual energy consumption (GCV) GJ	35	
General	ηs (Seasonal space heating efficiency) %	164		
	Prated at 2°C kW	14.1		
	Qhe Annual energy consumption (GCV) GJ	16		

2 Specifications

Technical specifications			EDLA16DV37		
Space heating Warm climate water outlet 55°C Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
		COPd		2.17	
		Pdh kW		9.8	
		PERd %		86.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh kW		9.1
			PERd %		149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
	Pdh kW			5.0	
	PERd %			227.6	
	Tbiv (bivalent temperature)	COPd		2.51	
		Pdh kW		12.1	
		PERd %		100.4	
		Tbiv °C		4	
	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°CDB/-8°CWB)		COPd		2.87	
		Pdh kW		11.2	
		PERd %		114.8	
B Condition (2°CDB/1°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		

2 Specifications

2

Technical specifications				EDLA16DV37	
Space heating	Average climate water outlet 35°C	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
	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
	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			3.30
Pdh kW				11.9	
PERd %				132.0	
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)			1.0
	COPd			5.64	
	Pdh kW		8.1		
	PERd %		225.6		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
COPd			7.73		
Pdh kW			5.2		
PERd %			309.2		
Tbiv (bivalent temperature)		COPd		3.30	
	Pdh kW		11.9		
	PERd %		132.0		
Control systems	Class of temperature control			2	
	Contribution to seasonal space heating efficiency		%	4	

Electrical specifications				EDLA16DV37
Compressor	Starting method			Inverter
Pump	Type			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
	Voltage			V
Voltage range	Min.			%
	Max.			%
Current	Maximum running current	Heating	A	30.8
		Recommended fuses	A	32

2 Specifications

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	Nom. 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	870		
		Width	1,380		
		Depth	460		
	Packed unit	Height	1,053		
		Width	1,520		
	Depth	650			
Weight	Unit	kg	149		
	Packed unit	kg	166		
Packing	Material		PE wrapping foil / Carton / Wood (pallet)		
	Weight	kg	17		

2 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	
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	
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Speed	Steps			8			
		Heating	Nom.	rpm	400	450	550	
	Output	W			230			
Compressor	Drive				Direct drive			
	Quantity				1			
	Model				2Y350BPAX1P#C			
PED	Type				Hermetically sealed swing compressor			
	Category				Category II			
	Most critical part	Name	P _s *V		Bar*I		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			
	Charge Control	TCO ₂ Eq			2.57			
	Circuits	Quantity				Expansion valve		
						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 unit	Heating	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 side Heat exchanger	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				
	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			

2 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3	
Water circuit	Piping connections diameter	inch	G 1" (male)					
	Piping	inch	1-1/4"					
	Piping Max. length	OU - Tank m	10					
	Level dif- ference	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					
General	Supplier/ Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
	Manu- Name or trademark	Daikin Europe N.V.						
	facturer details							
	Product	Air-to-water heat pump	Yes					
	descrip- tion	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							
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	
	Inte- grated 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	

2 Specifications

Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3		
Space heating	Average climate water outlet 55°C	General	η_s (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	
			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/B/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/B/6°CWB)	Pdh	kW	5.0	5.4	6.2
				PERd	%	131.2	130.0	131.2
				Cdh (Degradation heating)			1.0	
			D Condition (12°CDB/11°CWB)	COPd		4.80	4.81	4.88
				Pdh	kW		4.4	
				PERd	%	192.0	192.4	195.2
			Tol (temperature operating limit)	Cdh (Degradation heating)			1.0	
				COPd		6.45	6.41	6.58
				Pdh	kW		5.3	
				PERd	%	258.0	256.4	263.2
				COPd		1.70	1.64	1.70
			Rated heat output supplementary capacity	Pdh	kW	6.8	7.6	7.8
				PERd	%	68.0	65.6	68.0
				TOL	°C		-10	
				WTOL	°C		55	
				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			
	Annual energy consumption	kWh	7,427	8,247	8,858			
Cold climate water outlet 55°C	General	η_s (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		
		Annual energy consumption	kWh	2,921	3,184	3,792		
Warm climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%	162	165	168		

2 Specifications

Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3		
Space heating	Warm climate water outlet 55°C	General	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)	Cd	Cdh (Degradation heating)		1.0		
				COPd		2.12	2.18	2.17
		Pd	Pdh	kW	9.0	9.8		
			PERd	%	84.8	87.2	86.8	
		C Condition (7°CDB/6°CWB)	Cd	Cdh (Degradation heating)		1.0		
				COPd		3.65	3.74	3.83
		Pd	Pdh	kW		6.2	7.6	
			PERd	%	146.0	149.6	153.2	
	D Condition (12°CDB/11°CWB)	Cd	Cdh (Degradation heating)		1.0			
			COPd		5.68		5.69	
	Pd	Pdh	kW		5.0			
		PERd	%	227.2		227.6		
	Tbiv (bivalent temperature)	COPd	COPd		2.12	2.18	2.40	
			Pdh	kW	9.0	9.8	11.0	
	PERd	PERd	%	84.8	87.2	96.0		
		Tbiv	°C		2	3		
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	4,456	4,923	
			ηs (Seasonal space heating efficiency)	%	186	182		
Prated at -10°C		Qhe Annual energy consumption (GCV)	Pdh	kW	9.0	10.0	11.0	
			PERd	%	14	16	18	
SCOP			4.72	4.64	4.62			
Seasonal space heating eff. class				A+++				
A Condition (7°CDB/8°CWB)		COPd	COPd		3.07	3.03	2.95	
			Pdh	kW	8.5	9.2	10.1	
PERd		%	122.8	121.2	118.0			
B Condition (2°CDB/1°CWB)		Cd	Cdh (Degradation heating)		1.0			
	COPd			4.52	4.37	4.35		
Pd	Pdh	kW	4.5	5.5	6.1			
	PERd	%	180.8	174.8	174.0			
C Condition (7°CDB/6°CWB)	Cd	Cdh (Degradation heating)		1.0				
		COPd		6.78	6.74	6.70		
Pd	Pdh	kW	4.7	4.6				
	PERd	%	271.2	269.6	268.0			
D Condition (12°CDB/11°CWB)	Cd	Cdh (Degradation heating)		1.0				
		COPd		8.75	8.54	8.65		

2 Specifications

Technical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3		
Space heating	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW	5.5	5.4		
		Tol (temperature operating limit)	COPd	%	350.0	341.6	346.0	
			Pdh	kW	2.64	2.58	2.51	
			PERd	%	8.3	10.1	11.2	
			TOL	°C	105.6	103.2	100.4	
			WTOL	°C		-10		
			Tbiv (bivalent temperature)	COPd		35		
			Pdh	kW	2.75	2.58	2.51	
			PERd	%	8.7	10.1	11.2	
			Tbiv	°C	110.0	103.2	100.4	
					-9		-10	
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,402	5,783	6,317
				ηs (Seasonal space heating efficiency)	%	161	168	169
				Prated at -22°C	kW	10.0		
Qhe Annual energy consumption (GCV)	Gj			19	21	23		
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435		
		ηs (Seasonal space heating efficiency)	%	233	237	238		
		Prated at 2°C	kW	9.0	10.0	11.0		
		Qhe Annual energy consumption (GCV)	Gj	7	8	9		
	B Condition (2°CDB/1°CWB)	Cdch (Degradation heating)	COPd		1.0			
			Pdh	kW	3.36	3.30	3.45	
		PERd	%	9.0	10.3	10.8		
		PERd	%	134.4	132.0	138.0		
	C Condition (7°CDB/6°CWB)	Cdch (Degradation heating)	COPd		1.0			
			Pdh	kW	5.59	5.70	5.77	
	PERd	%	5.9	6.7	7.4			
	PERd	%	223.6	228.0	230.8			
D Condition (12°CDB/11°CWB)	Cdch (Degradation heating)	COPd		1.0				
		Pdh	kW	7.87				
		PERd	%	5.2	309.2			
	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				
Control systems	Contribution to seasonal space heating efficiency			4				

Electrical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Compressor	Starting method			Inverter		
Pump	Type			PWM		
Compressor component	Main power supply	Phase		1~		
		Voltage	V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		

2 Specifications

Electrical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Hydraulic component	Back-up heater	Type			3V3	
		Power supply	Phase		1~	
	current	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		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity	3G			
		Type of wires	Minimum 2.5 mm ²			
	R5T	Quantity	2			
		Type of wires	Wire included in option EKHWS*			
	For connection with R6T	Quantity	2			
		Remark	Minimum 0.75 mm ²			
	A3P	Quantity	4			
		Type of wires	Select diameter and type according to national and local regulations			
	M2S	Quantity	2			
		Type of wires	Select diameter and type according to national and local regulations			
	M3S	Quantity	3			
Type of wires		Select diameter and type according to national and local regulations				
Wiring connections	Quantity	2				
	Type of wires	Wire included in option EKFLSW1				
For power supply	Quantity	2G				
		Remark	See installation manual outdoor unit			
	For connection with user interface	Quantity	4			
		Remark	0.75 mm ² till 1.25 mm ² (max length 200 m)			
	Preferential kWh rate power supply	Type of wires	0,75 ~1,25 mm ² (P1P2)			
		Quantity	Power: 2			
	Remark	Power 6.3A				
Domestic hot water pump	Quantity	3				
	Remark	Minimum 0.75 mm ²				
Cable requirements	Cooling/ Heating output	Maximum running current	A	3		

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

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

(3)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	Step 1		kW	3
Power input	Heating	Nom.	kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour	Silver		
	Material	Polyester painted galvanised steel plate		

2 Specifications

Technical specifications					EDLA16D3V37
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
	Fin Treatment				Anti-corrosion treatment
	Fan	Type			
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
Compressor	Drive				Direct drive
	Quantity				1
	Model				2Y350BPAX1P#C
PED	Type				Hermetically sealed swing compressor
	Category				Category II
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
	Domestic hot water	Water side	Min.	°C	15 (3)
Max.			°C	60 (3)	
	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
	Charge		TCO ₂ Eq		2.57
	Control				Expansion valve
	Circuits	Quantity			
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 Heating		kPa		71.4
	ESP unit				
	Power input		W		180
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
	Water volume		l		2.16


2 Specifications

Technical specifications				EDLA16D3V37	
Water side Heat exchanger	Water Heating flow rate	Nom.	l/min	45.9 (1) / 45.9 (2)	
	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 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 (4)
	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
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

2 Specifications


Technical specifications				EDLA16D3V37		
Space heating	Average climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%	130	
			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		
		η_s (Seasonal space heating efficiency)	%	120		
		Prated at -22°C	kW	12.0		
		Qhe Annual energy consumption (GCV)	Gj	35		
		Annual energy consumption	kWh	4,519		
Warm climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%	164		

2 Specifications

Technical specifications			EDLA16D3V37			
Space heating 	Warm climate water outlet 55°C	General	Prated at 2°C	kW	14.1	
			Qhe Annual energy consumption (GCV)	Gj	16	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0
			COPd			2.17
			Pdh	kW		9.8
			PERd	%		86.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0
			COPd			3.73
			Pdh	kW		9.1
			PERd	%		149.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
			COPd			5.69
			Pdh	kW		5.0
			PERd	%		227.6
Average climate water outlet 35°C	General	Tbiv (bivalent temperature)	COPd		2.51	
			Pdh	kW	12.1	
			PERd	%	100.4	
			Tbiv	°C	4	
			Annual energy consumption	kWh	5,366	
			ηs (Seasonal space heating efficiency)	%	182	
			Prated at -10°C	kW	12.0	
			Qhe Annual energy consumption (GCV)	Gj	19	
			SCOP		4.62	
			Seasonal space heating eff. class		A+++	
		A Condition (7°CDB/-8°CWB)	COPd			2.87
			Pdh	kW		11.2
			PERd	%		114.8
		B Condition (2°CDB/1°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		

2 Specifications

2

Technical specifications				EDLA16D3V37	
Space heating 	Average climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh kW	5.5	
			PERd %	352.8	
		Tol (temperature operating limit)	COPd	2.48	
			Pdh kW	11.8	
			PERd %	99.2	
			TOL °C	-10	
			WTOL °C	35	
		Tbiv (bivalent temperature)	COPd	2.48	
			Pdh kW	11.8	
			PERd %	99.2	
		Tbiv °C	-10		
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296
			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	
C Condition (7°CDB/6°CWB)		CdH (Degradation heating)	COPd	1.0	
			Pdh kW	5.64	
D Condition (12°CDB/11°CWB)		CdH (Degradation heating)	COPd	1.0	
			Pdh kW	7.73	
	PERd %		5.2		
			309.2		
	Tbiv (bivalent temperature)	COPd		3.30	
			Pdh kW	11.9	
	PERd %		132.0		
		Tbiv °C	2		
Control systems	Class of temperature control		VI		
Control systems	Contribution to seasonal space heating efficiency		4		

Electrical specifications				EDLA16D3V37
Compressor	Starting method		Inverter	
Pump	Type		PWM	
Compressor component	Main power supply	Phase	1~	
		Voltage	230	
	Voltage range	Min.	%	-10
		Max.	%	10

2 Specifications

Electrical specifications				EDLA16D3V37
Hydraulic component	Back-up heater	Type		3V3
		Power supply	Phase	1~
	current	Frequency	Hz	50
			Voltage	V
		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
Wiring connections	Optional domestic hot water tank + Q2L	Quantity	3G	
		Type of wires	Minimum 2.5 mm ²	
	R5T	Quantity	2	
		Type of wires	Wire included in option EKHWS*	
	For connection with R6T	Quantity	2	
		Remark	Minimum 0.75 mm ²	
	A3P	Quantity	4	
		Type of wires	Select diameter and type according to national and local regulations	
	M2S	Quantity	2	
		Type of wires	Select diameter and type according to national and local regulations	
	M3S	Quantity	3	
		Type of wires	Select diameter and type according to national and local regulations	
	Wiring connections	Quantity	2	
Type of wires		Wire included in option EKFLSW1		
For power supply connection with user interface	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)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

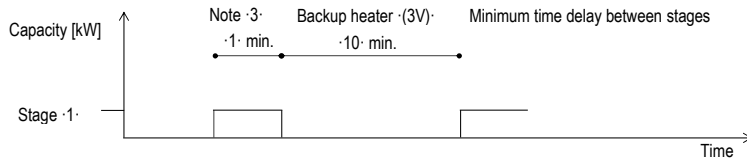
3

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



4D128962

4 Combination table

4 - 1 Combination Table

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

4

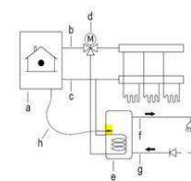
Kit availability for -E(B/D)LA*DA*:

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
EKPCCB4	PC cable kit		o	o	o	o
EKCC8-W	Universal centralised user interface		o	o	o	o
EKHY3PART	Third-party tank connection kit for thermistor pocket	(4) (6)	o	o	o	o
EKHY3PART2	Third-party tank connection kit for thermostat contact	(5) (6)	o	o	o	o
EKLBHUCB6W	Backup heater kit	(7)	o	o	-	-
EKMBHP1	Valve kit	(7)	-	-	-	-
EKFLSW1	Flow switch	(8)	o	o	o	o
AEVALVE1	Freeze protection valve		o	o	o	o
FWXV10-15-20ATV3*	Heat pump convactor					
FWXT10-15-20ATV3*	Heat pump convactor					
FWXM10-15-20ATV3*	Heat pump convactor					
EKHWS150D3V3	Domestic hot water tank -LT 150 1~230V-		o	o	o	o
EKHWS180D3V3	Domestic hot water tank -LT 180 1~230V-		o	o	o	o
EKHWS200D3V3	Domestic hot water tank -LT 200 1~230V-		o	o	o	o
EKHWS250D3V3	Domestic hot water tank -LT 250 1~230V-		o	o	o	o
EKHWS300D3V3	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
EKHWSU180D3V3	Domestic hot water tank -LT 180 1~230V-	(only for UK)	(9)	o	o	o
EKHWSU200D3V3	Domestic hot water tank -LT 200 1~230V-	(only for UK)	(9)	o	o	o
EKHWSU250D3V3	Domestic hot water tank -LT 250 1~230V-	(only for UK)	(9)	o	o	o
EKHWSU300D3V3	Domestic hot water tank -LT 300 1~230V-	(only for UK)	(9)	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
EKRTVA	Wired room thermostat		o	o	o	o
EKTR1	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

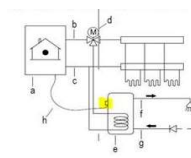
NOTES

- (1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- (2) This option cannot be installed in certain countries. Refer to the country compliance overview of the option.
- (3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- (6) 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.
- (7) Necessity to install a bypass kit -EKMBHP1- to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.
- (8) -EKFLSW1- is obligatory for Monoblock & Mini-chiller in case Glycol is used.
- (9) Only possible in combination with -EKEXPVES-
- (10) Domestic hot water tank with solar connection
Dedicated connection kit available.
Other options
EKRSP4A* Solar pump station
For the combination with -EKHWP*, refer to the combination table of -EKHWP*.
- (11) The installation of -EKBH3S* is mandatory.
As backup or for tank preheating.
For details, see the installer reference guide.
- (12) Can only be used in combination with the wireless room thermostat.

- (4) -EKHY3PART- can be used if you have a tank in which you can insert a thermistor.



- (5) -EKHY3PART2- can be used if you have a tank in which you cannot insert a thermistor.



Remark
Other combinations than mentioned in this combination table are prohibited.

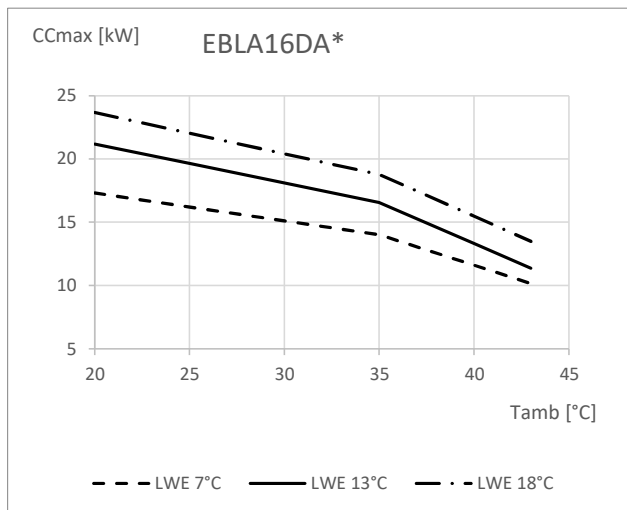
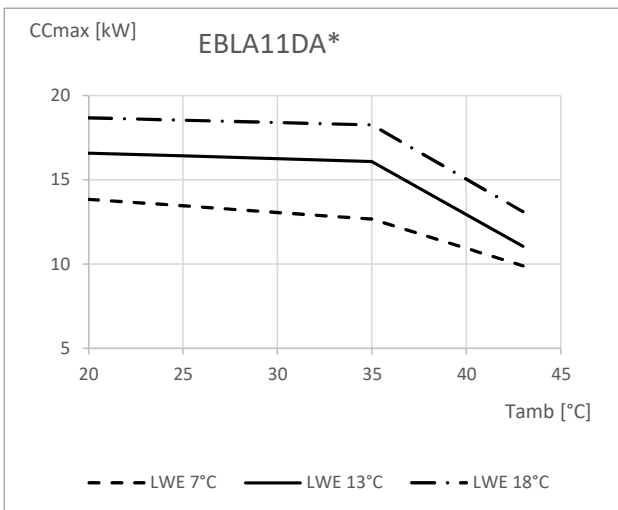
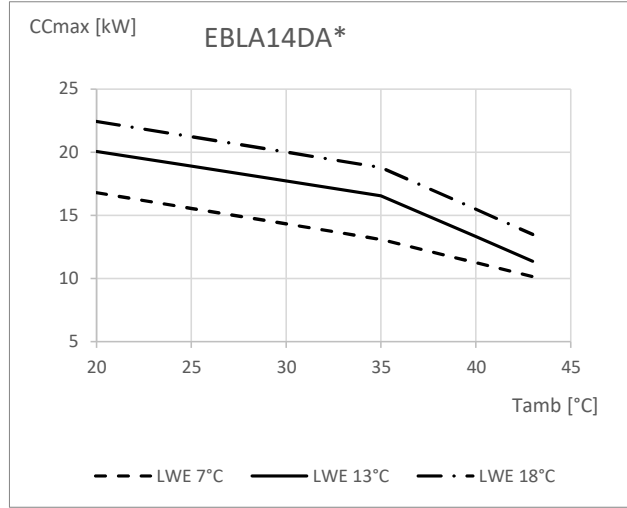
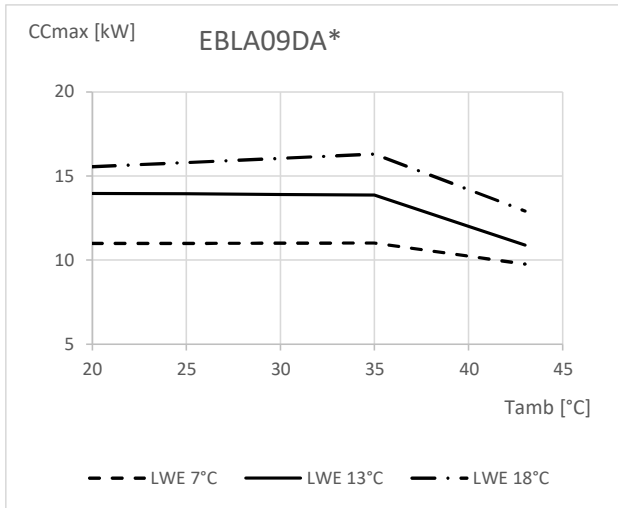
5 Capacity graphs

5 - 1 Cooling Capacity Graphs

5

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.

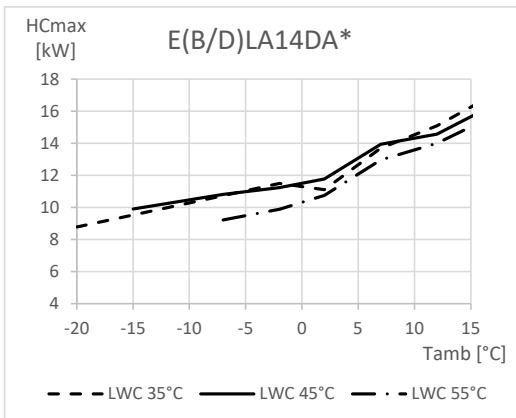
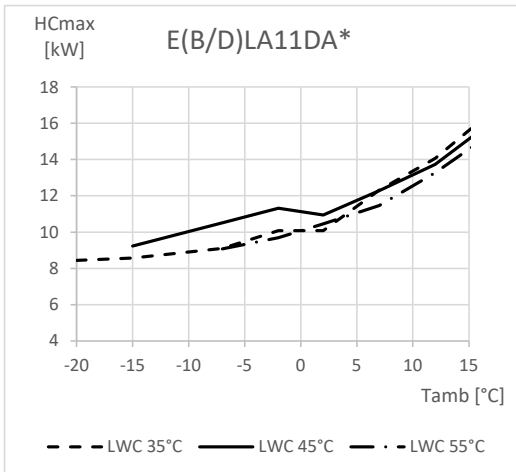
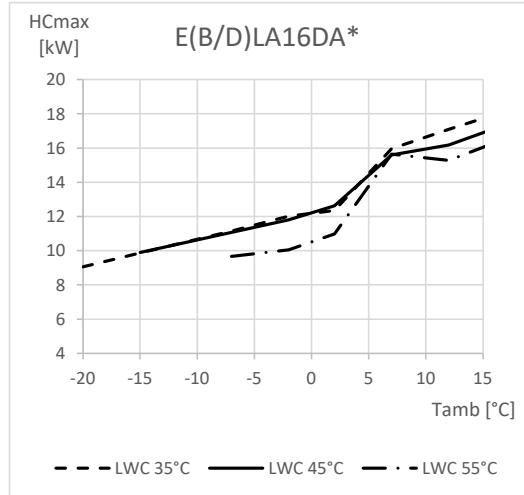
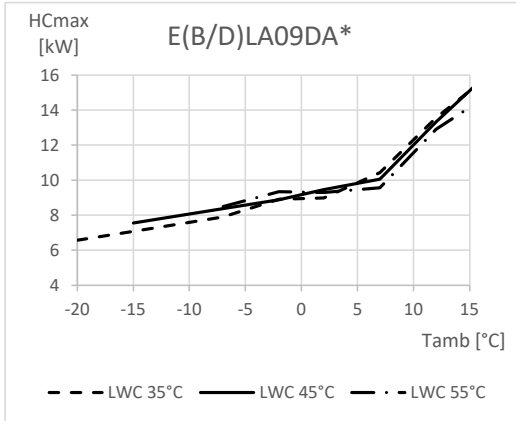
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5 Capacity graphs

5 - 2 Heating Capacity Graphs

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

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

Tamb [°C]	EWC [°C]	LWC [°C]	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 [kW]	COP [-]	HC [kW]	COP [-]	HC [kW]	COP [-]	HC [kW]	COP [-]	HC [kW]	COP [-]	HC [kW]	COP [-]
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 [°C]	EWC [°C]	LWC [°C]	E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1) (7)		Used for:
			HC [kW]	COP [-]	HC [kW]	COP [-]	
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 [°C]	EWE [°C]	LWE [°C]	EBLA09DA(3)(V3/W1)		EBLA11DA(3)(V3/W1)		EBLA14DA(3)(V3/W1)		EBLA16DA(3)(V3/W1)(7)		Used for:
			CC [kW]	EER [-]	CC [kW]	EER [-]	CC [kW]	EER [-]	CC [kW]	EER [-]	
35	23	18	9,10	5,34	11,51	5,31	12,68	5,04	15,33	4,74	General DACI
35	12	7	9,35	3,35	11,59	3,26	12,82	3,16	14,01	3,06	Keymark DAPT

	LWE 7°C				Low temperature Application			
	EBLA09DA(3)(V3/W1)		EBLA11DA(3)(V3/W1)		EBLA14DA(3)(V3/W1)		EBLA16DA(3)(V3/W1)(7)	
Pdes [kW]	9,3		11,5		12,8		14,000	
SEER [-]	5,62		5,79		5,71		5,59	
η _{s,c} [-]	222		229		226		221	
Q _{c,e} [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)		Symbols
	EKHWS(U)250D3V3	EKHWS(U)300D3V3	EKHWS(U)250D3V3	EKHWS(U)300D3V3	
Domestic hot water tank					COP _{DHW} Domestic hot water COP
Tapping pattern	XL	XL	XL	XL	According to EN16147.
Application	Average climate (design temperature: -7°C)				η _{wh} η _{wh} (Water heating energy efficiency) AEC Annual
COP _{DHW} []	2,51	2,73	2,69	2,87	
η _{wh} [%]	102,9%	112,0%	110,1%	117,5%	
AEC [kWh]	1628	1495	1521	1426	
Application	Colder climate (design temperature: -2°C)				
COP _{DHW} []	2,04	2,24	2,20	2,35	
η _{wh} [%]	83,3%	91,8%	89,8%	96,1%	
AEC [kWh]	2011	1826	1865	1744	
Application	Warmer climate (design temperature: -14°C)				
COP _{DHW} []	2,96	3,23	3,12	3,40	
η _{wh} [%]	121,8%	132,9%	128,0%	139,5%	
AEC [kWh]	1375	1261	1309	1200	

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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

Measured according to UNI/TS 11300

Condition	Tamb [°C]	LWC [°C]	PLR [%]	EBLA09DA(V3/3V3)		E(B/D)LA11DA(V3/3V3)		E(B/D)LA14DA(V3/3V3)		E(B/D)LA16DA(V3/3V3)(7)		EBLA09DA(W1/3W1)		E(B/D)LA11DA(W1/3W1)		E(B/D)LA14DA(W1/3W1)		E(B/D)LA16DA(W1/3W1)(7)	
				HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	-7/-8	34	100	7,96	2,50	9,12	2,44	10,68	2,50	11,11	2,55	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	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	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	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	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	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	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	13,80	4,91	14,32	5,23	15,37	5,84	17,42	6,05

Rated data for certification programmes - cooling mode

Measured according to UNI/TS 11300

Condition	Tamb [°C]	LWE [°C]	PLR [%]	EBLA09DA(V3/3V3)		EBLA11DA(V3/3V3)		EBLA14DA(V3/3V3)		EBLA16DA(V3/3V3)(7)		EBLA09DA(W1/3W1)		EBLA11DA(W1/3W1)		EBLA14DA(W1/3W1)		EBLA16DA(W1/3W1)(7)	
				CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER
A	35	18	100	16,31	3,64	18,25	3,42	18,79	3,99	18,79	3,99	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	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	8,19	9,52	9,13	9,04	10,29	9,62	10,29	9,62
D*	20	18	25	7,30	14,76	7,30	14,76	7,30	14,76	7,30	14,76	7,30	14,76	7,30	14,76	7,30	14,76	7,30	14,76
A	35	7	100	11,02	2,98	12,68	2,74	13,09	3,02	14,01	3,03	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	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	5,71	5,83	6,26	5,64	6,81	5,82	6,81	5,82
D	20	7	25	4,99	7,34	4,99	7,34	4,99	7,34	4,99	7,34	4,99	7,34	4,99	7,34	4,99	7,34	4,99	7,34

* Minimum CC that the unit can deliver in part load -D-

Rated data for certification programmes - standby power consumption

	E(B/D)LA(O9/11/14/16)DA(V3/3V3)(7)	Used for:
Standby power input	[W]	Taux
	23	

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]
- LWE** 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]
- SEER** Seasonal energy efficiency ratio according to EN14825
- η_{s,c}** Seasonal space cooling energy efficiency according to EN14825
- Q_{ec}** Annual energy consumption for cooling according to EN14825

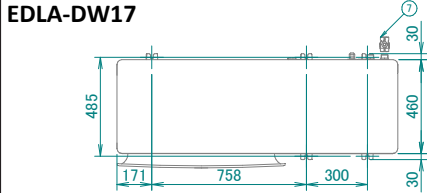
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7 Dimensional drawings

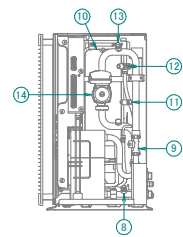
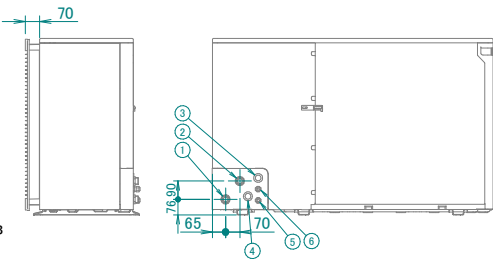
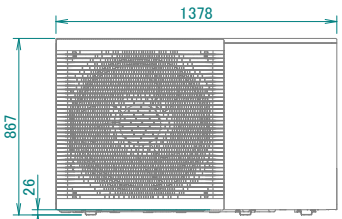
7 - 1 Dimensional Drawings

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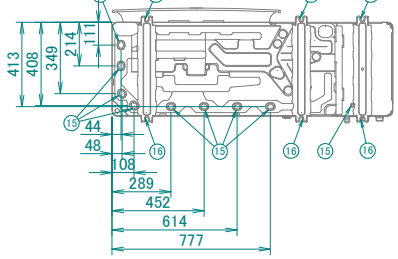
EBLA09-14DV3 / EBLA09-14DW1 / EDLA09-14DV3 / EDLA09-14DW1 / EBLA-DV37 / EBLA-DW17 / EDLA- / EDLA-DW17



- ① Water in connection ·1"·
- ② Water out connection ·1"·
- 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)



Total volume = ·0.598· m³



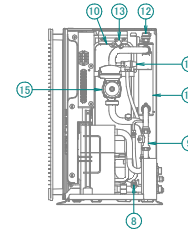
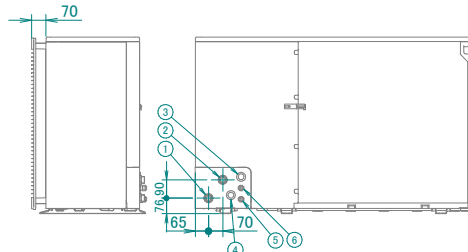
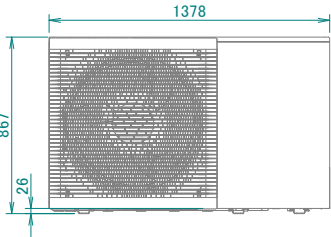
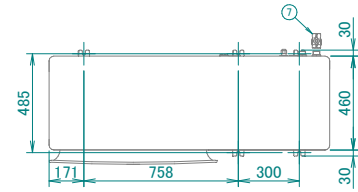
- ⑧ Drain valve water circuit
- ⑨ Flow sensor
- ⑩ Expansion vessel
- ⑪ Space heating water pressure sensor
- ⑫ Safety valve
- ⑬ Manual air purge valve
- ⑭ Pump
- ⑮ Drain outlet
- ⑯ ·6· holes for anchor bolts

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7 Dimensional drawings

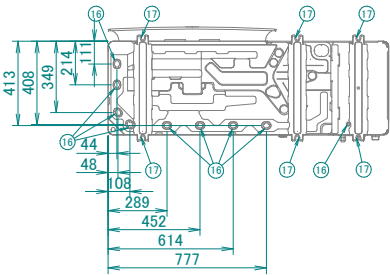
7 - 1 Dimensional Drawings

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



- ① Water in connection ·1"·
- ② Water out connection ·1"·
- 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)

Total volume = ·0.598· m³



- 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

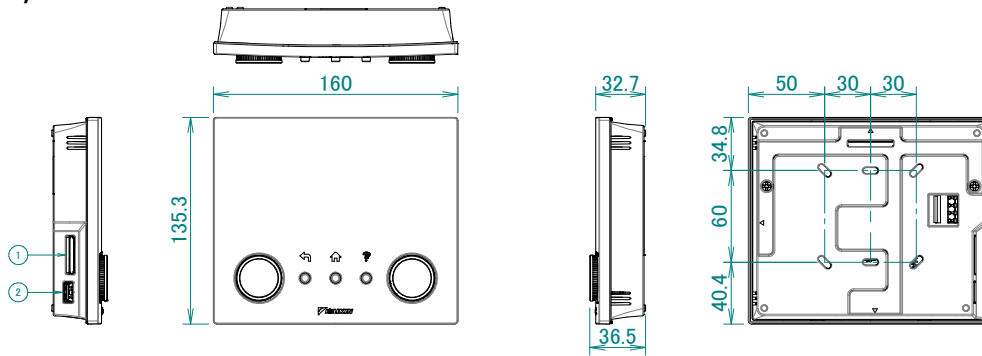
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7 Dimensional drawings

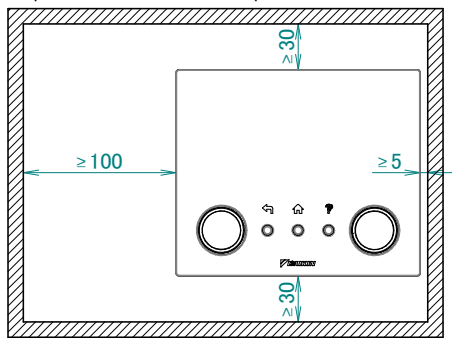
7 - 1 Dimensional Drawings

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



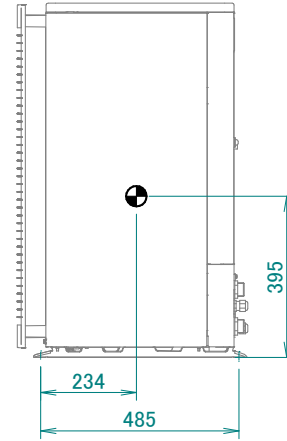
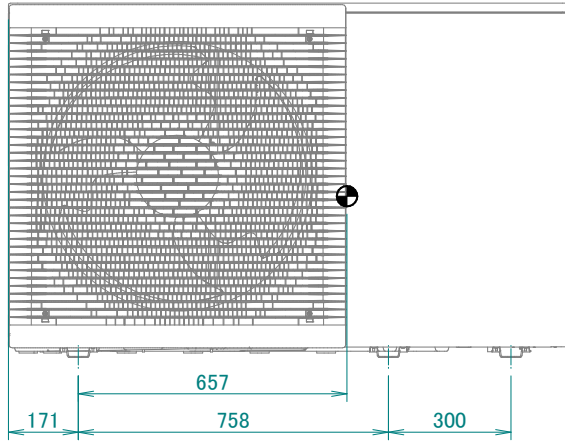
- ① USB Connector
- ② WLAN cartridge

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8 Centre of gravity

8 - 1 Centre of Gravity

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



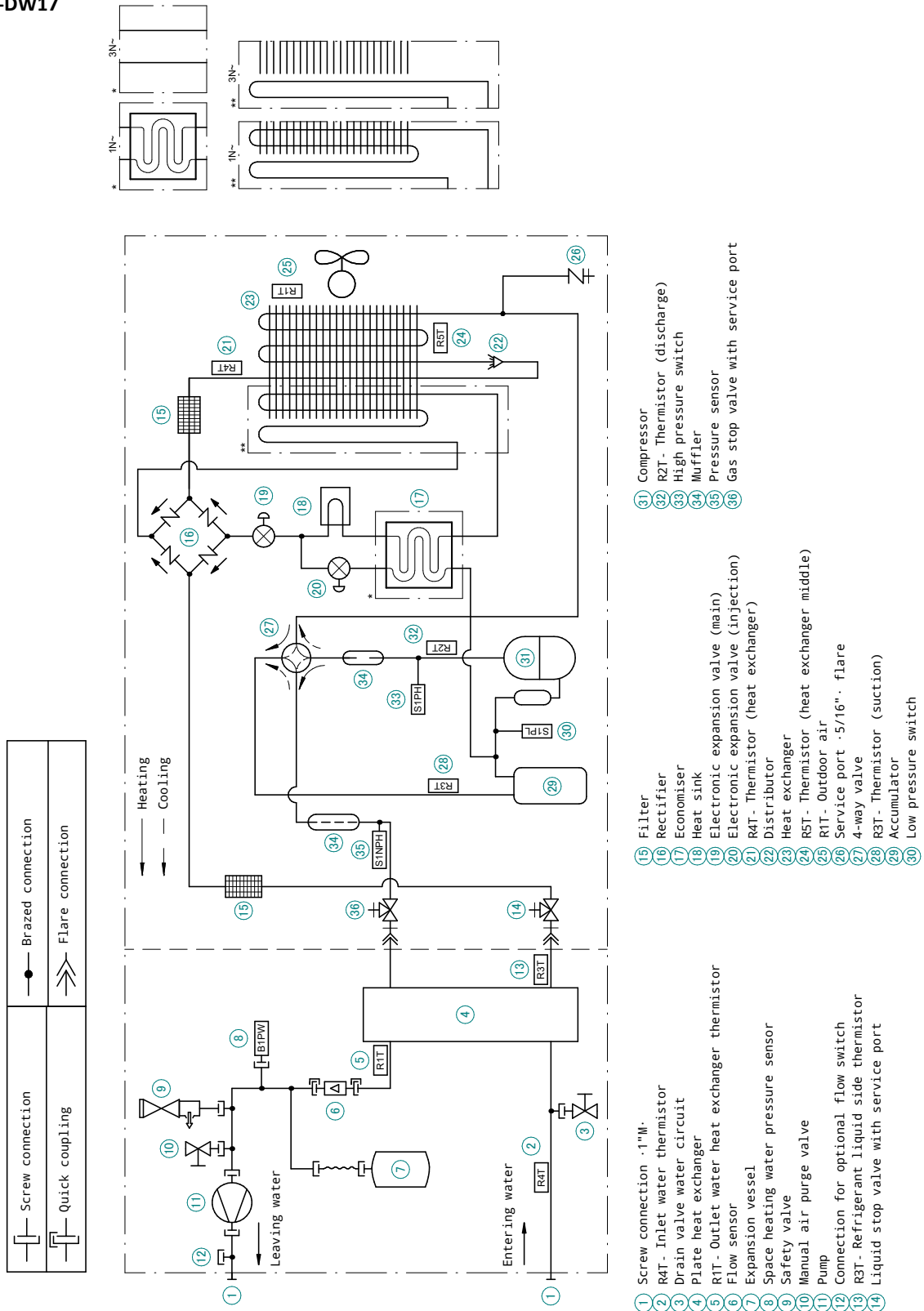
4D128956

9 Piping diagrams

9 - 1 Piping Diagrams

9

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

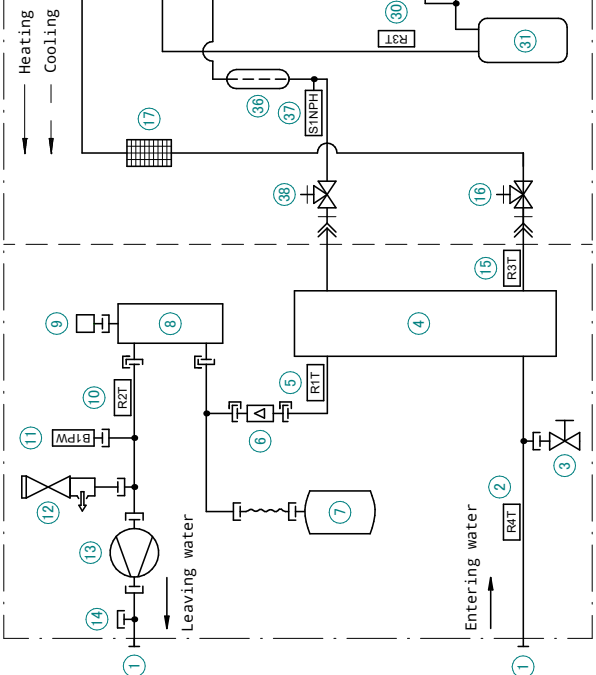
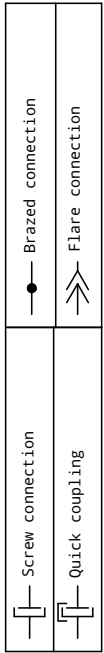
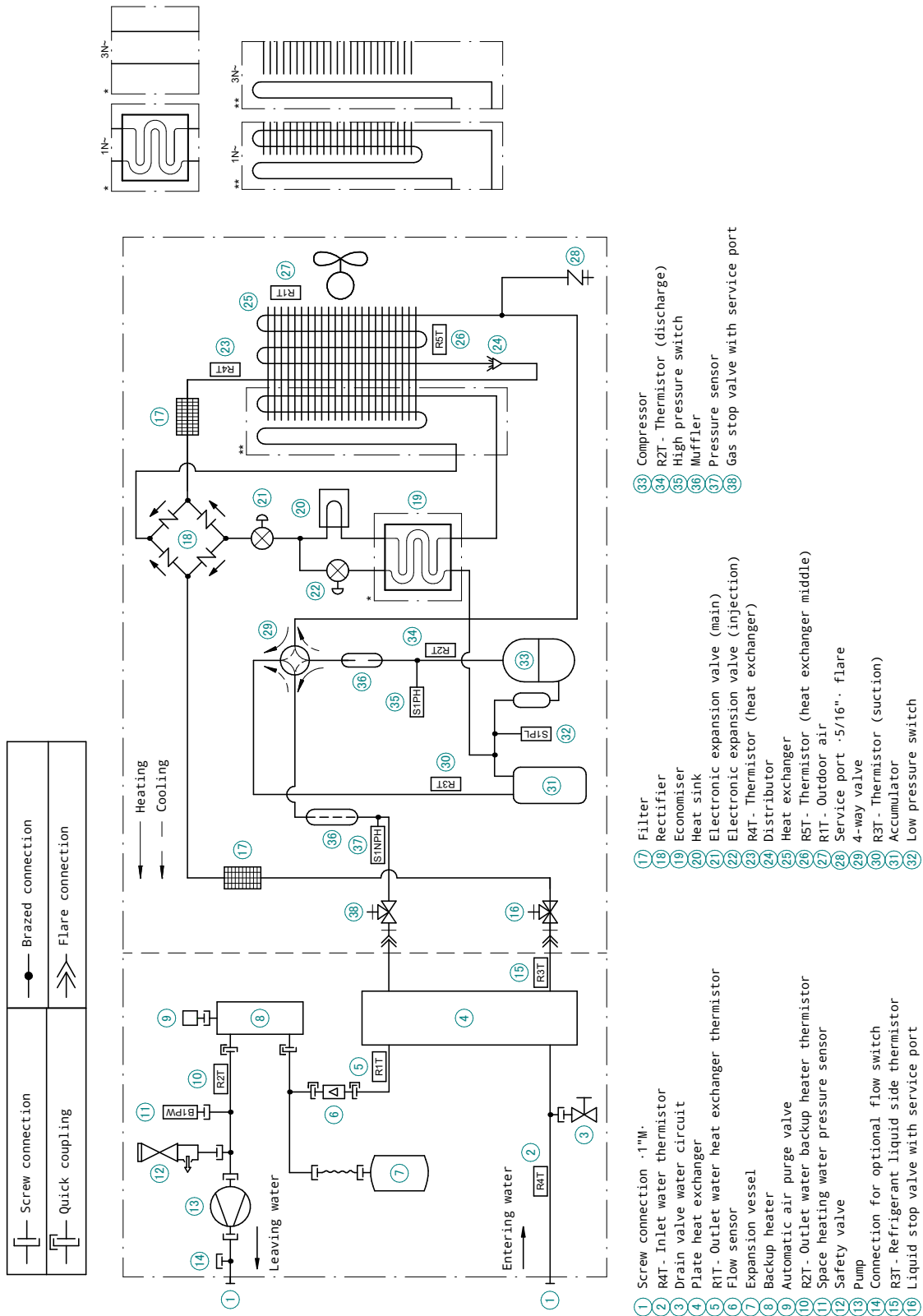


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9 Piping diagrams

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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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



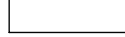
: Option



: Wiring depending on model



: Not mounted in switch box

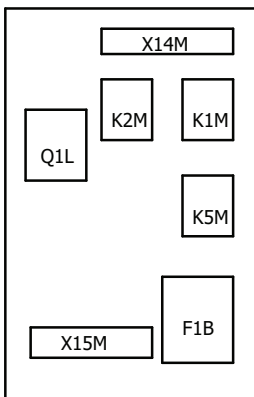


: PCB

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

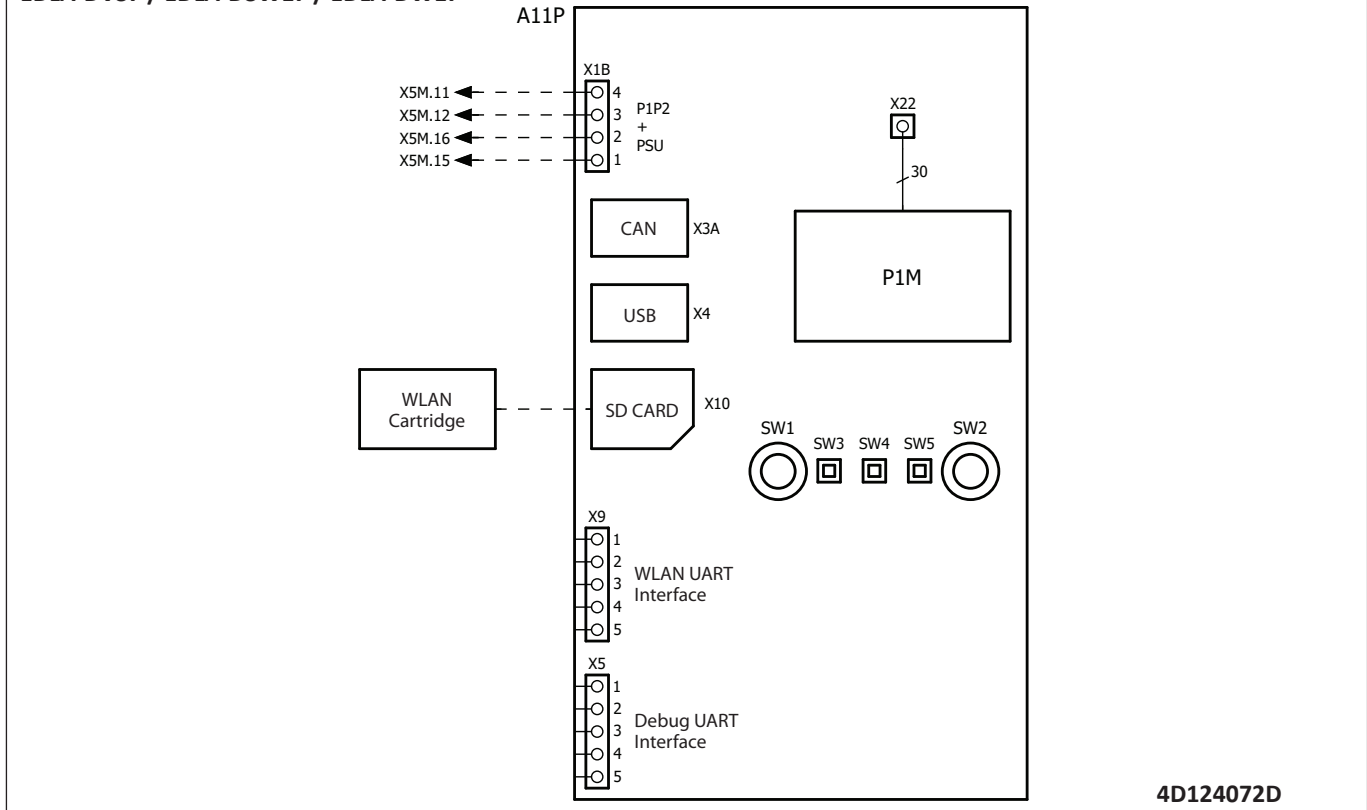
#: field supply

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



10 Wiring diagrams

10 - 3 Compressor - Notes & Legend

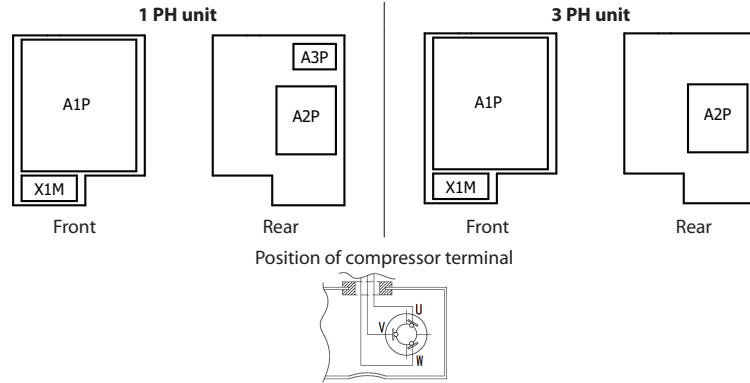
10

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)	K5~8R (A1P)	Magnetic relay
K1R (A1P)	Magnetic relay (Y1S)	K*M (A1P)	Magnetic relay (Main)
K10R (A1P)	Magnetic relay	L*R (A*P)	Reactor
K10R (A1P)	Magnetic relay	M1C	Compressor motor
K11M (A1P)	Magnetic relay (Main)	M1F	Fan motor
K14~15R (A2P)	Magnetic relay	PS (A1P)	Switching power supply
L*R (A1P)	Reactor	Q1	Thermal overcurrent protector
M1C	Compressor motor	Q1DI	# Earth leakage circuit breaker (30mA)
M1F	Fan motor	R1~9 (A1P)	Resistor
PS (A1P)	Switching power supply	R1T	Thermistor (air)
Q1	Thermal overcurrent protector	R2T	Thermistor (discharge)
Q1DI	# Earth leakage circuit breaker (30mA)	R3T	Thermistor (suction)
R1~5 (A*P)	Resistor	R4T	Thermistor (distribution pipe)
R1T	Thermistor (air)	R5T	Thermistor (heat exchanger middle)
R2T	Thermistor (discharge)	R11T (A1P)	Thermistor (fin)
R3T	Thermistor (suction)	RC (A2P)	Signal receiver circuit
R4T	Thermistor (distribution pipe)	S1NPH	Pressure sensor
R5T	Thermistor (heat exchanger middle)	S1PH	High pressure switch
R11T (A1P)	Thermistor (fin)	S1PL	Low pressure switch
RC (A2P)	Signal receiver circuit	TC (A2P)	Signal transmission circuit
S1NPH	Pressure sensor	V*D (A1P)	Diode
S1PH	High pressure switch	V1R (A1P)	Power module
S1PL	Low pressure switch	V2R (A1P)	Diode module
TC (A2P)	Signal transmission circuit	V*T (A1P)	IGBT
V*D (A1P)	Diode	X1M	Terminal strip
V1R (A1P)	Power module	X*A, X*Y (A*P)	Connector
V2R (A1P)	Diode module	Y1E, Y3E	Electronic expansion valve
V*T (A1P)	IGBT	Y1S	Solenoid valve (4-way valve)
X1M	Terminal strip	Z*C	Noise filter (ferrite core)
X*A, X*Y (A*P)	Connector	Z*F (A*P)	Noise filter
Y1E, Y3E	Electronic expansion valve		
Y1S	Solenoid valve (4-way valve)		
Z*C	Noise filter (ferrite core)		
Z*F (A*P)	Noise filter		

* : optional

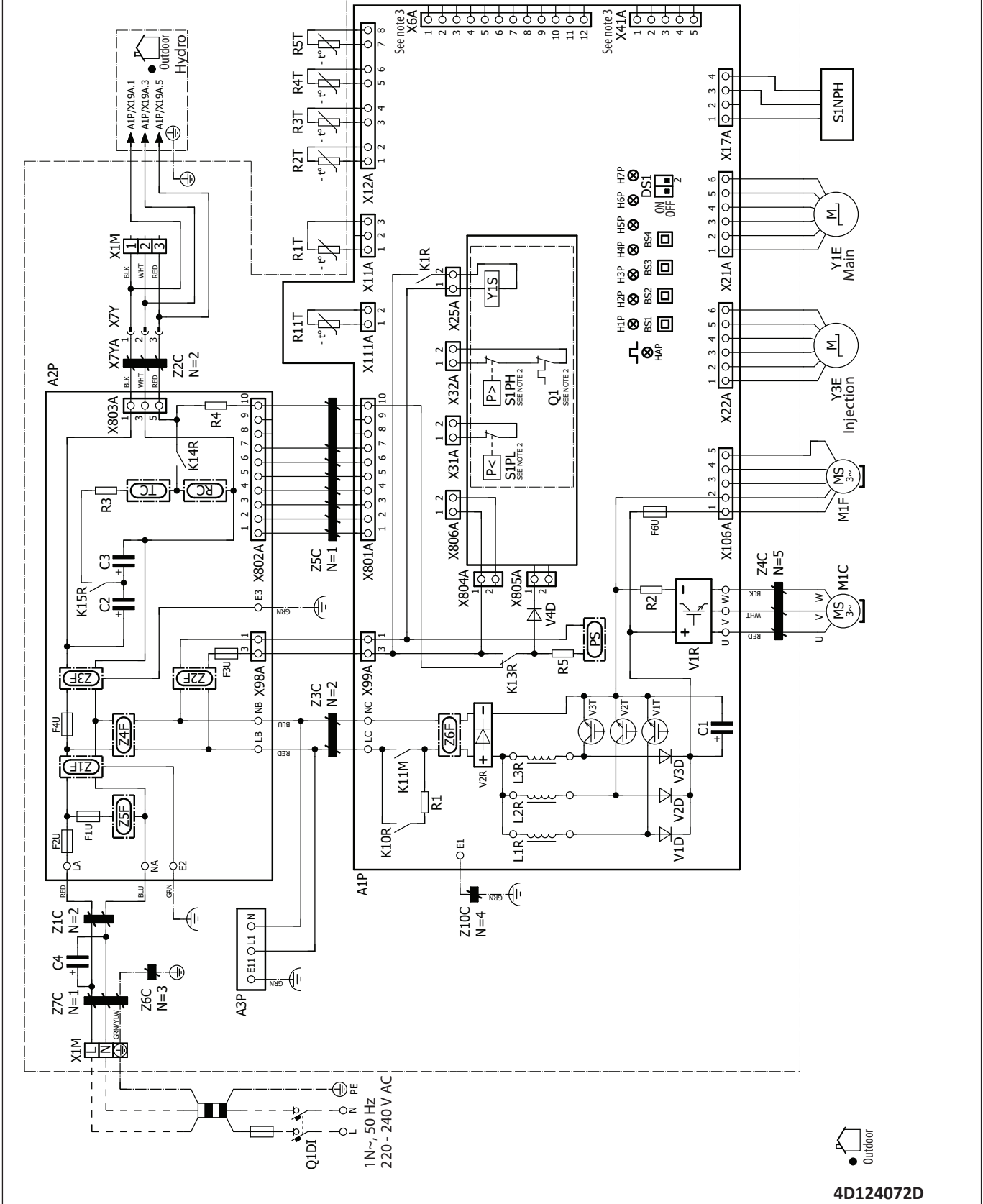
: field supply

4D124072D

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

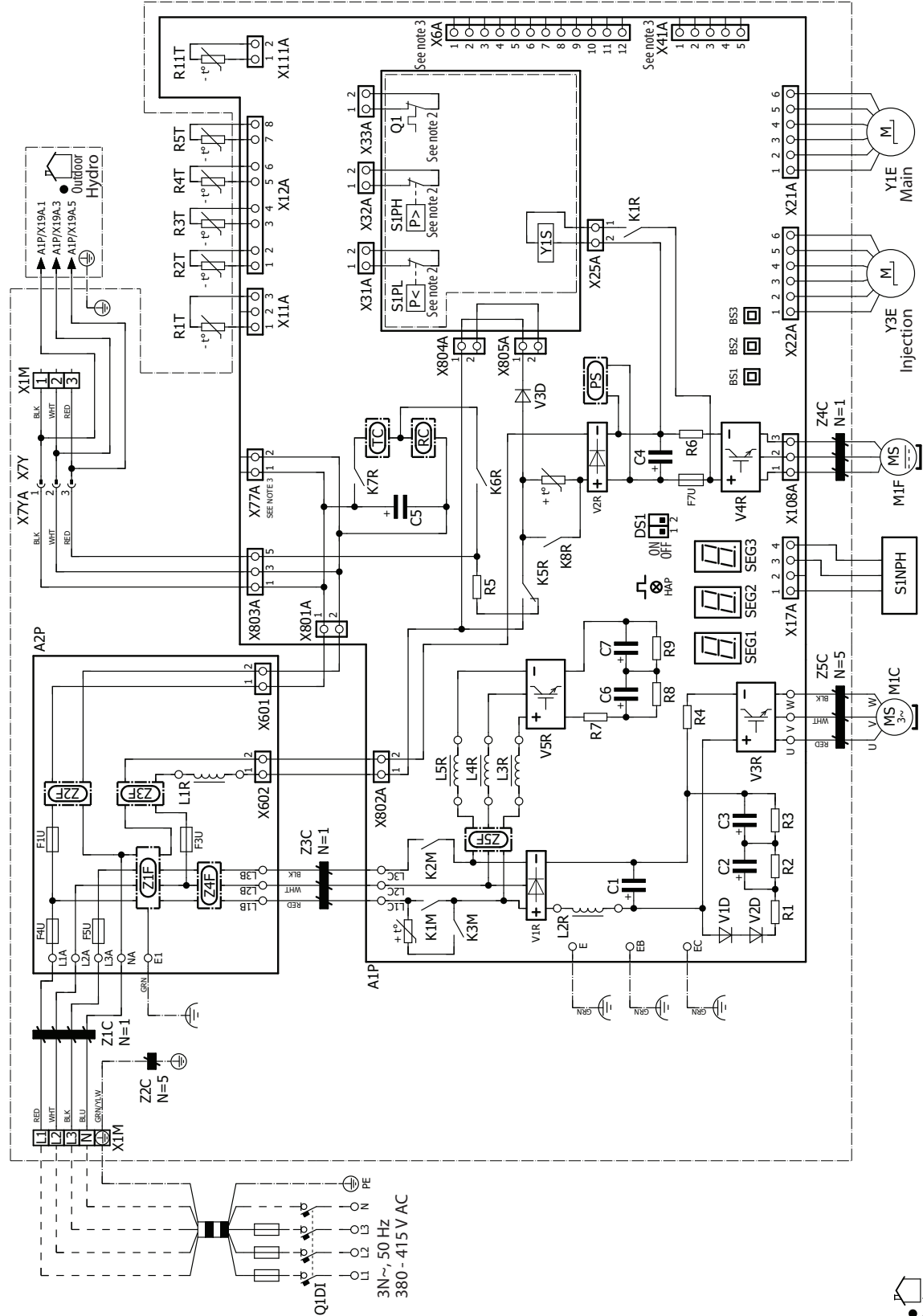


10 Wiring diagrams

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

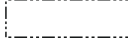
NOTES to go through before starting the unit

- 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



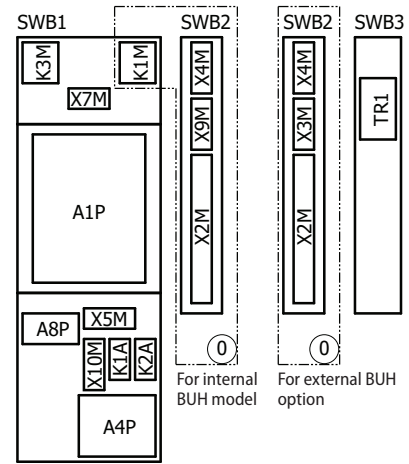
: Not mounted in switch box



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

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 convector
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

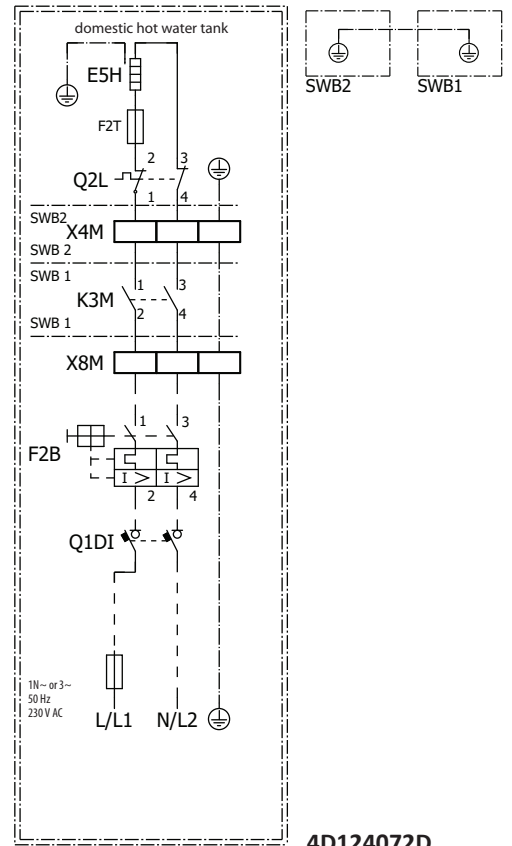
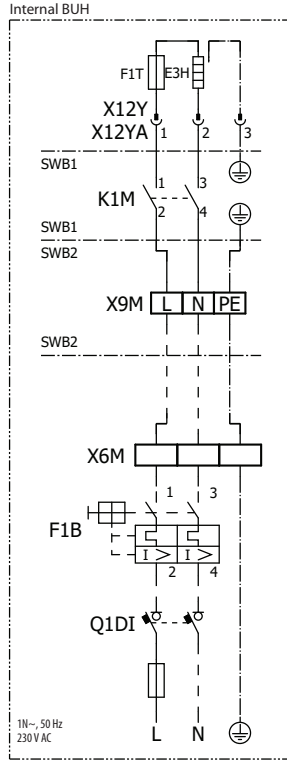
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10 Wiring diagrams

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

10

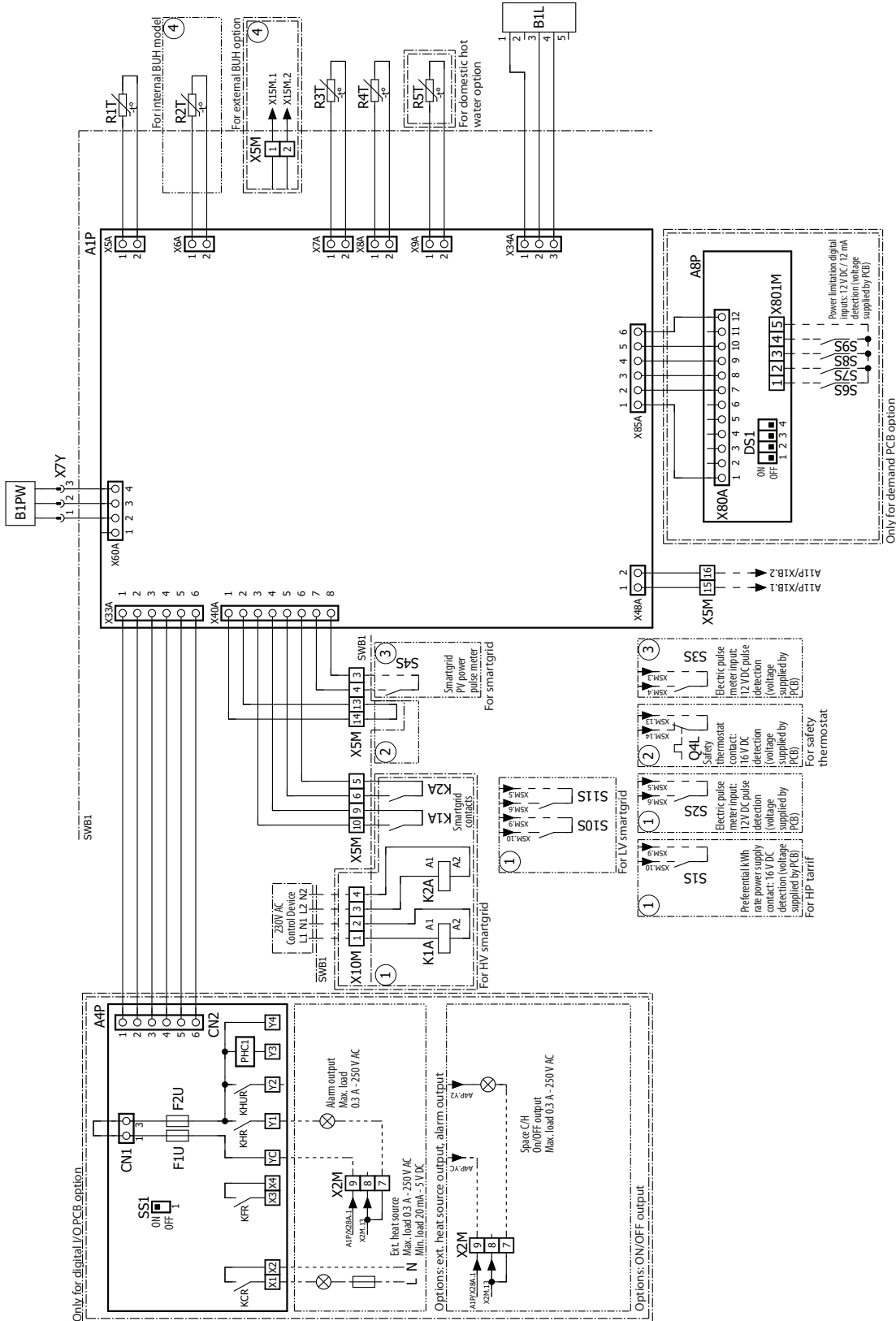
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
 EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
 EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17



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



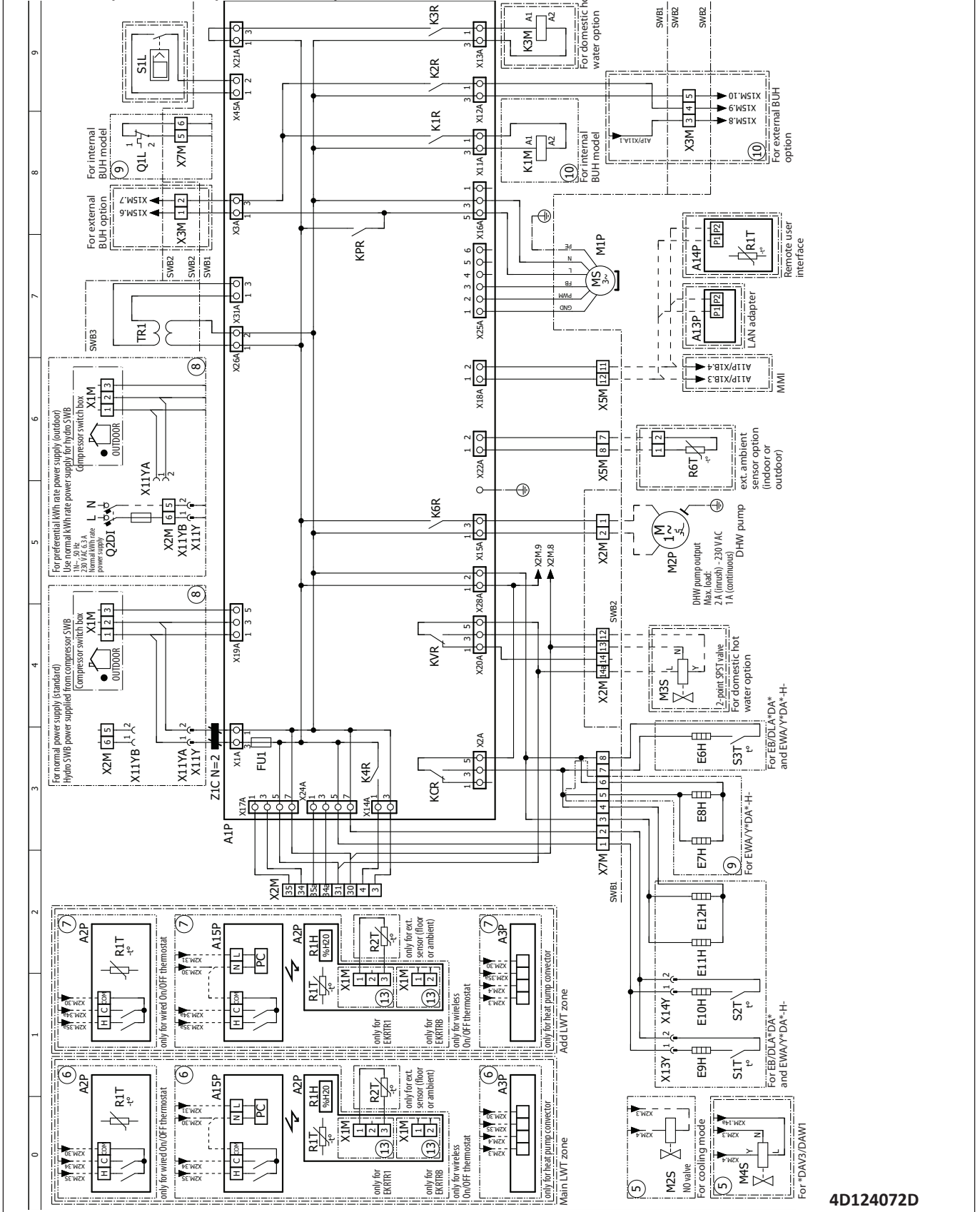
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10 Wiring diagrams

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

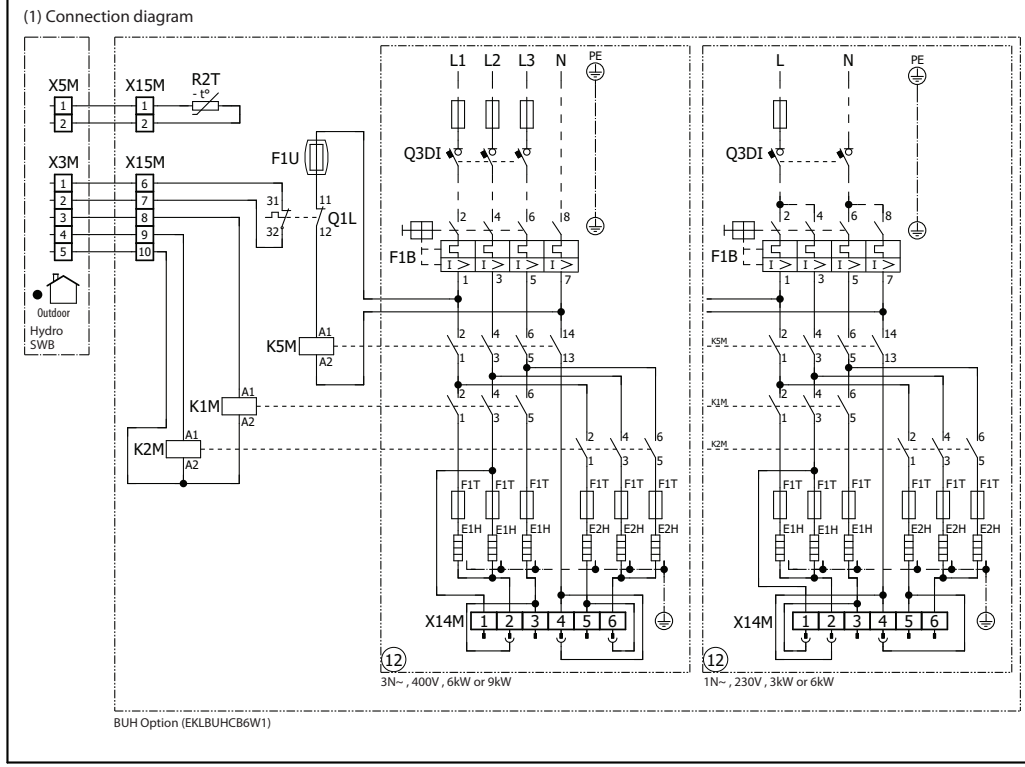


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10 Wiring diagrams

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



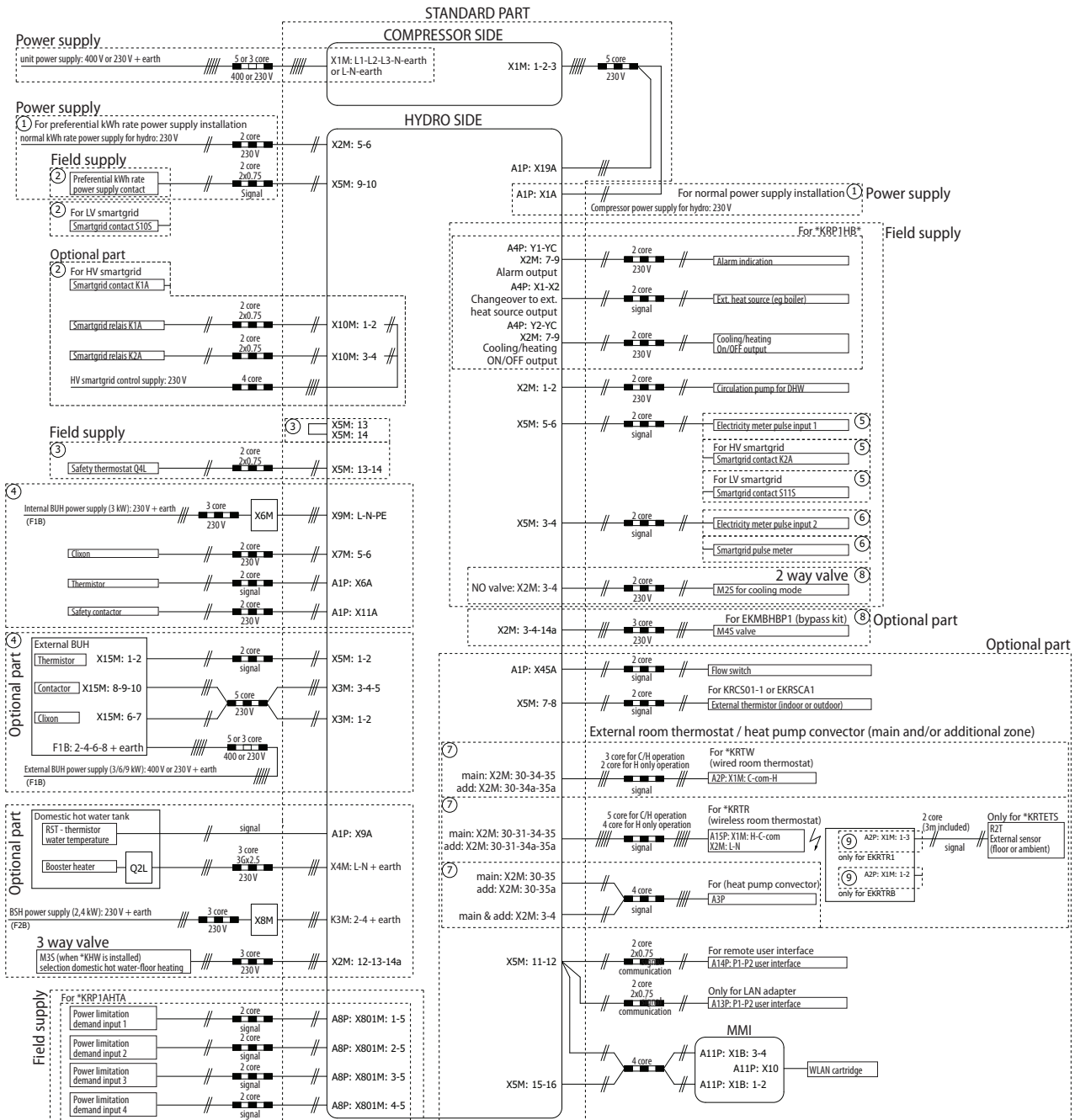
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11 External connection diagrams

11 - 1 External Connection Diagrams

11

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



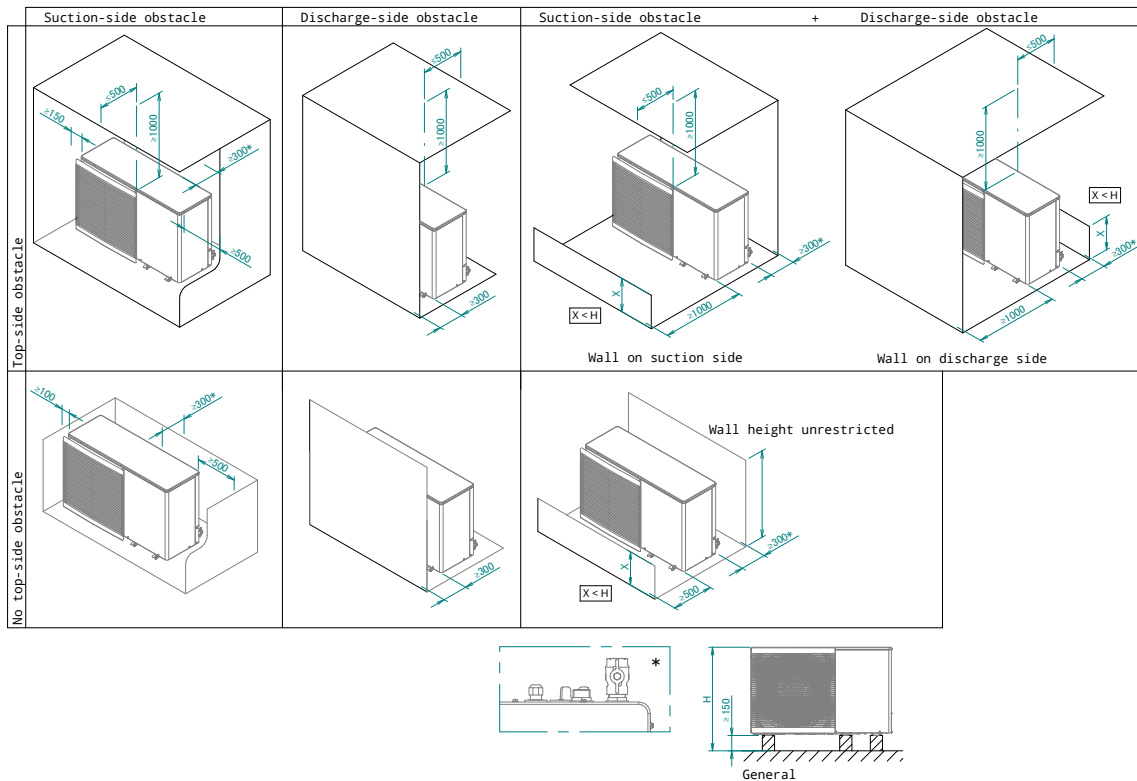
NOTE
 In case of signal cable: keep minimum distance to power cables > 5 cm

4D128841C

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



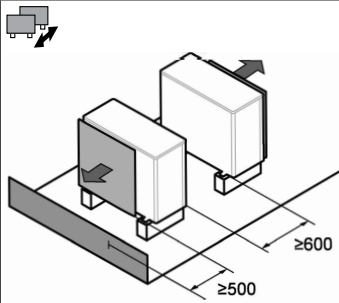
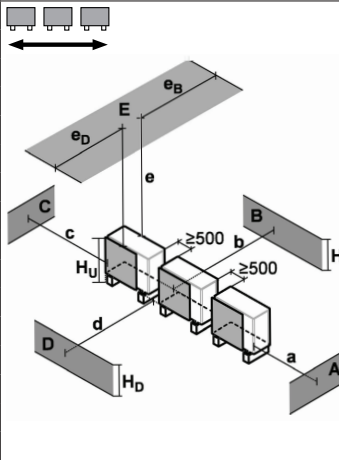
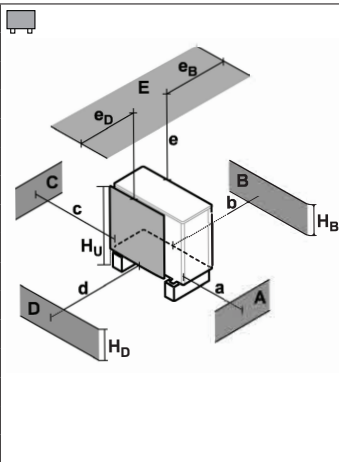
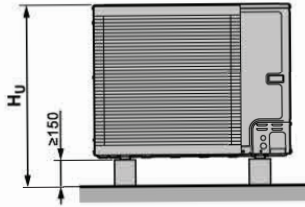
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12 Installation

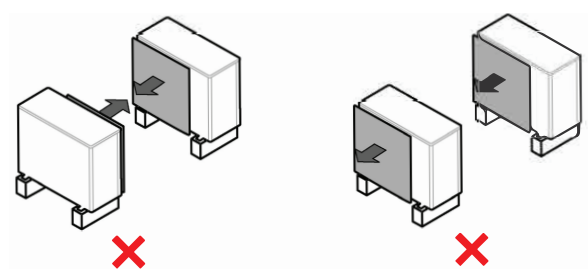
12 - 2 Installation Method in cascade applications

12

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



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



12 Installation

12 - 2 Installation Method in cascade applications

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

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

Cascading outdoor units.

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

Legend Symbols

- A, C Obstacles (walls/baffle plates)
- B Obstacles on the suction side
- D Obstacles on the discharge side
- E Obstacle (roof)

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

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

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

H_u Height of the unit

H_b,H_d Height of obstacles B and D

✘ Not allowed



(1)



(2)

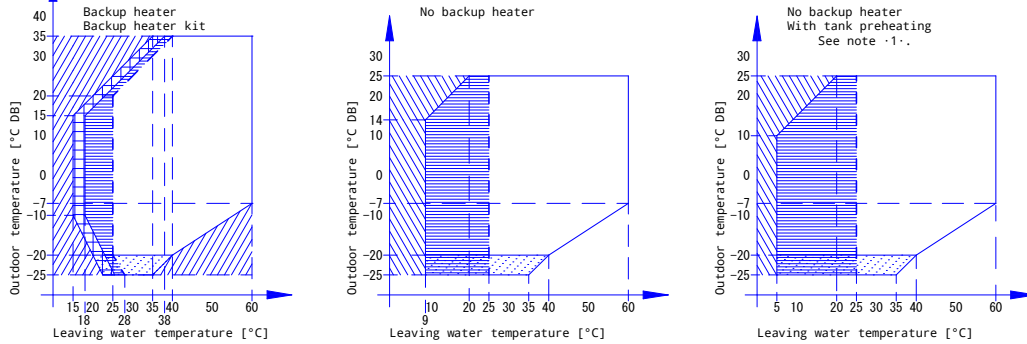
3D142508

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

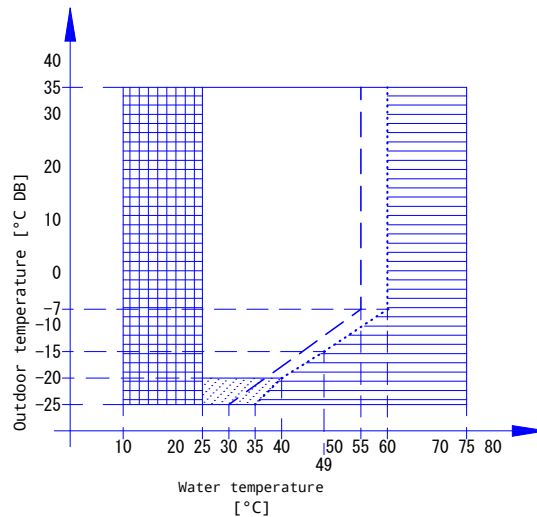
- Backup heater only operation
No outdoor unit operation
- Heat pump + backup heater operation
Pull-up area
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.
See dashed lines
- Operation of outdoor unit possible, but with possible capacity reduction.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

3D130723

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

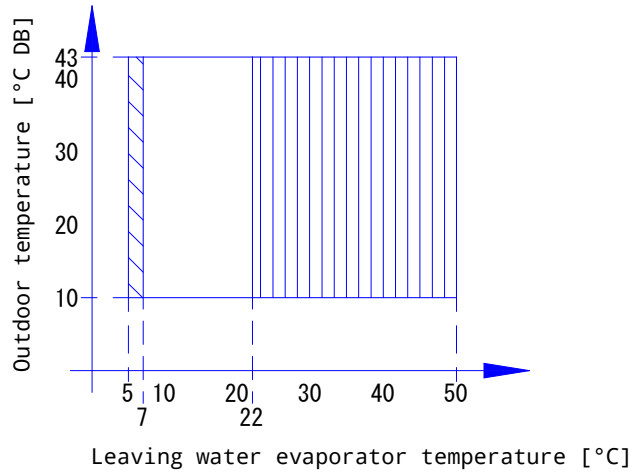
1. In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as EKHS*.
Coil surface > 1.05·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.
3. If negative ambient temperatures 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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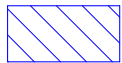
13 Operation range

13 - 1 Operation Range

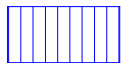
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17



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.

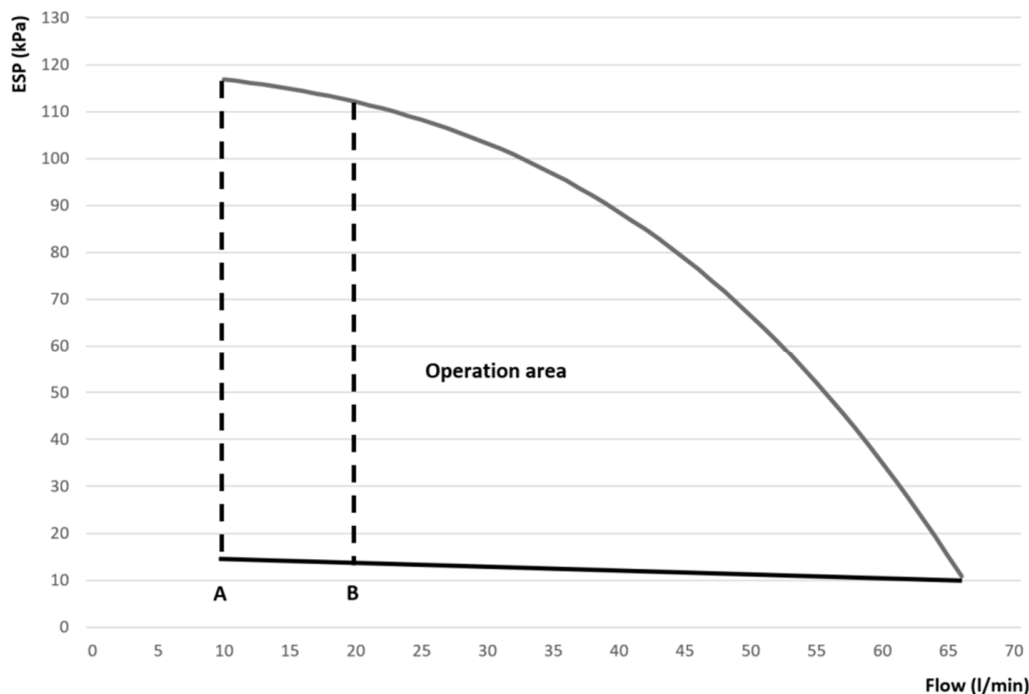
3D130999

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

14

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



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

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

Notes

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

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

See dashed lines

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

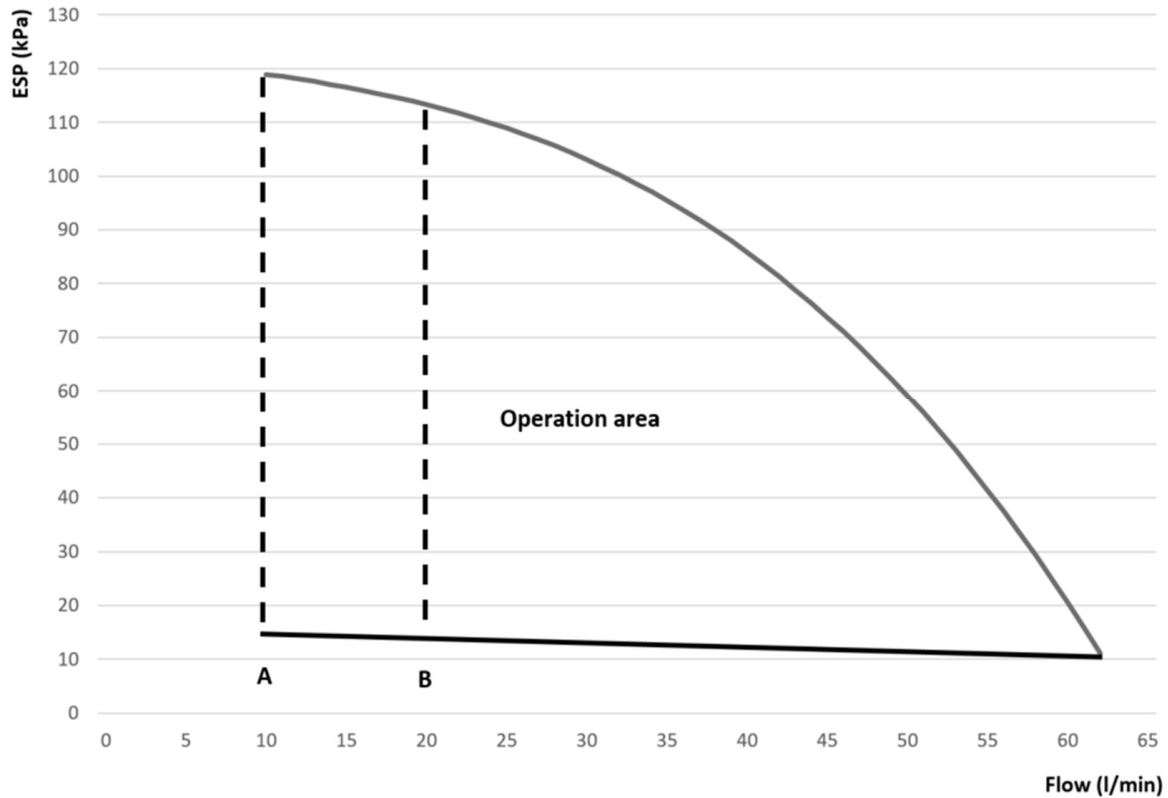
See also the minimum and maximum allowed water flow range in the technical specifications.

4D129632

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

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



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

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

Notes

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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09/2022



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