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

EEDEN24

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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

1 Features

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

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

Onecta app (optional)

Online controller

2 Specifications

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Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Heating capacity	Nom.			kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Cooling capacity	Nom.			kW	9.35 (3) / 9.10 (4)	11.6 (3) / 11.5 (4)	12.8 (3) / 12.7 (4)
Power input	Cooling			kW	2.79 (3) / 1.71 (4)	3.56 (3) / 2.17 (4)	4.06 (3) / 2.51 (4)
	Heating			kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP					4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
EER					3.35 (3) / 5.34 (4)	3.26 (3) / 5.31 (4)	3.16 (3) / 5.04 (4)
SEER					5.62 (5)	5.79 (5)	5.71 (5)
Casing	Colour				Silver		
	Material				Polyester painted galvanised steel plate		
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
	Packed unit	Height		mm	1,053		
		Width		mm	1,520		
		Depth		mm	650		
Weight	Unit			kg	147		
	Packed unit			kg	164		
Packing	Material				PE wrapping foil / Carton / Wood (pallet)		
	Weight			kg	17		
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			13		
	Face area			m^2	0.950 /0.970 /1.00		
	Stages	Quantity			38		
	Empty tubeplate hole	Quantity			2		
	Tube type				7.0 Hi-XD		
	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m^3/min	48.0	55.8	70.4
		Cooling	High	m^3/min	63.1	70.4	85.0
Fan motor	Quantity				1		
	Model				Brushless DC motor		
Fan 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		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	25 (6)		
		Water side	Min.	°C	9 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		

2 Specifications

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Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
Safety devices	Item	04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.5	102.9	97.6
		Cooling		kPa	106.6	99.2	94.1
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)
	Insulation material				EPDM type		
	Heater			W	50.0		
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 (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			No		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651
			ηs (Seasonal space heating efficiency)	%	135	132	134
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	19	22	24
			SCOP		3.44	3.37	3.42
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/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		

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,092	7,848	8,808
			ηs (Seasonal space heating efficiency)	%	122	123	120
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	26	28	32
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690
			ηs (Seasonal space heating efficiency)	%	168	170	172
			Prated at 2°C	kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV)	Gj	10	11	13
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838
			ηs (Seasonal space heating efficiency)	%	190	186	185
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17
			SCOP		4.82	4.73	4.70
			Seasonal space heating eff. class		A+++		
		A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1

2 Specifications

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Technical specifications					EBLA09DW1	EBLA11DW1	EBLA14DW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.52	4.37	4.35
			Pdh	kW	5.5		6.1
			PERd	%	180.8	174.8	174.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	
			PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C	-10		
			WTOL	°C	35		
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980	5,732	6,266
			ηs (Seasonal space heating efficiency)	%	175	169	170
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	18	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333
			ηs (Seasonal space heating efficiency)	%	243	248	249
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

Electrical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
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		

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Electrical specifications				EBLA09DW1	EBLA11DW1	EBLA14DW1
Current	Maximum running current	Heating	A	14.0		
	Recommended fuses		A	16		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	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 mm² till 1.25 mm² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
		Remark		Minimum 0.75 mm²		
Cable requirements	Cooling/ Heating output	Maximum running current	A	3		

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

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

2 Specifications

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Technical specifications					EBLA16DW17
Heat exchanger	Length			mm	1,136 /1,166 /1,195
	Rows	Quantity			3
	Fin pitch			mm	1.4
	Passes	Quantity			13
	Face area			m^2	0.950 /0.970 /1.00
	Stages	Quantity			38
	Empty tubeplate hole	Quantity			2
	Tube type				7.0 Hi-XD
	Fin	Type			WF fin
		Treatment			Anti-corrosion treatment
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
		Cooling	High	m^3/min	85.0
Fan motor	Quantity				1
	Model				Brushless DC motor
Fan motor	Speed	Steps			8
		Heating	Nom.	rpm	650
		Cooling	Nom.	rpm	650
	Output			W	234
	Drive				Direct drive
Compressor	Quantity				1
	Model				2Y350BPAY1P#C
	Type				Hermetically sealed swing compressor
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	25 (6)
		Water side	Min.	°C	9 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
		Water side	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (6)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
Safety devices	Item	04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	76.7
		Cooling		kPa	88.4
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
	Water volume			l	2.16
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)
		Cooling	Nom.	l/min	40.2 (3) / 43.9 (4)
	Insulation material				EPDM type
	Heater			W	50.0

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Technical specifications					EBLA16DW17
Expansion vessel	Volume			l	8
	Max. water pressure			bar	4
	Pre pressure			bar	1
	Heater			W	65
Water filter	Diameter perforations			mm	0.8
	Material				Stainless steel
Water circuit	Piping connections diameter			inch	G 1" (male)
	Piping			inch	1-1/4"
	Piping length	Max.	OU - Tank	m	10
	Level difference	Max.		m	5
	Safety valve			bar	3
	Drain valve / fill valve				Yes
	Shut off valve				Yes
	Air purge valve				Yes (Manually)
	Minimum water volume in the system			l	50 (7)
	Heater			W	66.0
General	Supplier/ 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			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	7,359
			ηs (Seasonal space heating efficiency)	%	132
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
			SCOP		3.37
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/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

2 Specifications

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Technical specifications					EBLA16DW17
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,510
			ηs (Seasonal space heating efficiency)	%	121
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,418
			ηs (Seasonal space heating efficiency)	%	168
			Prated at 2°C	kW	14.1
			Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent temperature)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,281
			ηs (Seasonal space heating efficiency)	%	185
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.69
			Seasonal space heating eff. class		A+++
		A Condition (-7°CDB/-8°CWB)	COPd		2.87
			Pdh	kW	11.2

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Technical specifications					EBLA16DW17
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
			ηs (Seasonal space heating efficiency)	%	160
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-	Cdh (Degradation heating)		1.0
			COPd		5.64
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EBLA16DW17
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

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Electrical specifications				EBLA16DW17
Current	Maximum running current	Heating	A	14.0
	Recommended fuses		A	16
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	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 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

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

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Technical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			13		
	Face area			m^2	0.950 /0.970 /1.00		
	Stages	Quantity			38		
	Empty tubeplate hole	Quantity			2		
	Tube type				7.0 Hi-XD		
	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m^3/min	48.0	55.8	70.4
		Cooling	High	m^3/min	63.1	70.4	85.0
Fan motor	Quantity				1		
Fan motor	Model				Brushless DC motor		
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
		Cooling	Nom.	rpm	500	550	650
	Output			W	234		
	Drive				Direct drive		
Compressor	Quantity				1		
	Model				2Y350BPAY1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
Safety devices	Item	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
		Cooling		kPa	107.0	98.4	92.3
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)
	Insulation material				EPDM type		
	Heater			W	50.0		

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Technical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Expansion vessel	Volume			l	8		
	Max. water pressure			bar	4		
	Pre pressure			bar	1		
	Heater			W	65		
Water filter	Diameter perforations			mm	0.8		
	Material				Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)		
	Piping			inch	1-1/4"		
	Piping 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		
General	Product description	Low-temperature heat pump			No		
		Supplementary heater integrated			Yes		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
	Integrated supplementary heater	Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/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

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Technical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Space heating	Average climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C	-10		
			WTOL	°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,092	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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838
			ηs (Seasonal space heating efficiency)	%	190	186	185
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17
			SCOP		4.82	4.73	4.70
			Seasonal space heating eff. class		A+++		

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Technical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd		4.52	4.37	4.35
			Pdh	kW	5.5		6.1
			PERd	%	180.8	174.8	174.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	
			PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C		-10	
			WTOL	°C		35	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980	5,732	6,266
			ηs (Seasonal space heating efficiency)	%	175	169	170
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	18	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333
			ηs (Seasonal space heating efficiency)	%	243	248	249
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd		7.87		7.73
			Pdh	kW		5.2	
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C		2	
Control systems	Class of temperature control					VI	
	Contribution to seasonal space heating efficiency			%		4	

Electrical specifications				EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Compressor component	Main power supply	Phase			3N~	
		Voltage	V		400	
	Voltage range	Min.	%		-10	
		Max.	%		10	

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Electrical specifications					EBLA09D3W1	EBLA11D3W1	EBLA14D3W1
Hydraulic component	Back-up heater current	Type			3V3		
		Power supply	Phase		1~		
			Frequency	Hz	50		
			Voltage	V	230		
		Running current	Back-up heater	A	13.0		
	Voltage range	Min.		%	-10		
		Max.		%	10		
	Wiring connections	Type of wires			Select diameter and type according to national and local regulations		
Power supply	Name				W1		
	Phase				3~		
	Frequency			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 mm²		
	R5T	Quantity			2		
		Type of wires			Wire included in option EKHWS*		
	For connection with R6T	Quantity			2		
		Remark			Minimum 0.75 mm²		
	A3P	Quantity			4		
		Type of wires			Select diameter and type according to national and local regulations		
	M2S	Quantity			2		
		Type of wires			Select diameter and type according to national and local regulations		
	M3S	Quantity			3		
		Type of wires			Select diameter and type according to national and local regulations		
	Quantity				2		
	Type of wires				Wire included in option EKFLSW1		
	For power supply	Quantity			4G		
		Remark			See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity			4		
		Remark			0.75 mm² till 1.25 mm² (max length 200 m)		
		Type of wires			0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity			Power: 2		
		Remark			Power 6.3A		
	Domestic hot water pump	Quantity			3		
		Remark			Minimum 0.75 mm²		
Cable requirements	Cooling/ Heating output	Maximum running current		A	3		

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

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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3W17
Dimensions	Unit	Height		mm	870
		Width		mm	1,380
		Depth		mm	460
	Packed unit	Height		mm	1,053
		Width		mm	1,520
		Depth		mm	650
Weight	Unit			kg	149
	Packed unit			kg	166
Packing	Material				PE wrapping foil / Carton / Wood (pallet)
	Weight			kg	17
Heat exchanger	Length			mm	1,136 /1,166 /1,195
	Rows	Quantity			3
	Fin pitch			mm	1.4
	Passes	Quantity			13
	Face area			m^2	0.950 /0.970 /1.00
	Stages	Quantity			38
	Empty tubeplate hole	Quantity			2
	Tube type				7.0 Hi-XD
	Fin	Type			WF fin
		Treatment			Anti-corrosion treatment
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
		Cooling	High	m^3/min	85.0
Fan motor	Quantity				1
Fan motor	Model				Brushless DC motor
	Speed	Steps			8
		Heating	Nom.	rpm	650
		Cooling	Nom.	rpm	650
	Output			W	234
	Drive				Direct drive
Compressor	Quantity				1
	Model				2Y350BPAY1P#C
	Type				Hermetically sealed swing compressor
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	15 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
		Water side	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (6)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
Safety devices	Item	03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector

2 Specifications

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Technical specifications					EBLA16D3W17
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	71.4
		Cooling		kPa	85.5
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
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/ 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
General	Product description	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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3W17
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,359
			ηs (Seasonal space heating efficiency)	%	132
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
			SCOP		3.37
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3W17
Space heating	Average climate water outlet 55°C	Tol (temperature operating limit)	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	9,510
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent temperature)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	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+++

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Technical specifications					EBLA16D3W17
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
			ηs (Seasonal space heating efficiency)	%	160
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EBLA16D3W17
Compressor component	Main power supply	Phase		3N~
		Voltage	V	400
	Voltage range	Min.	%	-10
		Max.	%	10

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Electrical specifications					EBLA16D3W17
Hydraulic component	Back-up heater current	Type			3V3
		Power supply	Phase		1~
			Frequency	Hz	50
			Voltage	V	230
		Running current	Back-up heater	A	13.0
	Voltage range	Min.		%	-10
		Max.		%	10
	Wiring connections	Type of wires			Select diameter and type according to national and local regulations
Power supply	Name				W1
	Phase				3~
	Frequency			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
Wiring connections	For connection with user interface	Quantity			4
		Remark			0.75 mm^2 till 1.25 mm^2 (max length 200 m)
		Type of wires			0,75 ~1,25 mm^2 (P1P2)
	Preferential kWh rate power supply	Quantity			Power: 2
		Remark			Power 6.3A
	Domestic hot water pump	Quantity			3
		Remark			Minimum 0.75 mm^2
Cable requirements	Cooling/ Heating output	Maximum running current		A	3

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

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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09DV3	EBLA11DV3	EBLA14DV3
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
	Packed unit	Height		mm	1,053		
		Width		mm	1,520		
		Depth		mm	650		
Weight	Unit			kg	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		
	Model				Brushless DC motor		
Fan motor	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
		Cooling	Nom.	rpm	500	550	650
	Output			W	230		
	Drive				Direct drive		
Compressor	Quantity				1		
	Model				2Y350BPAX1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	25 (6)		
		Water side	Min.	°C	9 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
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

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Technical specifications					EBLA09DV3	EBLA11DV3	EBLA14DV3
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.5	102.9	97.6
		Cooling		kPa	106.6	99.2	94.1
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)
	Insulation material				EPDM type		
	Heater			W	50.0		
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 (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			No		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		

2 Specifications

2 - 1 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
			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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/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		

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Technical specifications					EBLA09DV3	EBLA11DV3	EBLA14DV3
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376	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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent temperature)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838
			ηs (Seasonal space heating efficiency)	%	190	186	185
			Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17
			SCOP		4.82	4.73	4.70
			Seasonal space heating eff. class		A+++		
		A Condition (-7°CDB/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1

2 Specifications

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Technical specifications					EBLA09DV3	EBLA11DV3	EBLA14DV3
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.52	4.37	4.35
			Pdh	kW	5.5		6.1
			PERd	%	180.8	174.8	174.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	
			PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C	-10		
			WTOL	°C	35		
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,351	5,732	6,266
			ηs (Seasonal space heating efficiency)	%	163	169	170
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333
			ηs (Seasonal space heating efficiency)	%	243	248	249
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

Electrical specifications				EBLA09DV3	EBLA11DV3	EBLA14DV3
Compressor component	Main power supply	Phase		1~		
		Voltage	V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Power supply	Name			V3		
	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	230		
Voltage range	Min.		%	-10		
	Max.		%	10		

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

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

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

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Technical specifications					EBLA16DV37
Heat exchanger	Length			mm	1,136 /1,166 /1,195
	Rows	Quantity			3
	Fin pitch			mm	1.4
	Passes	Quantity			14
	Face area			m^2	0.950 /0.970 /1.00
	Stages	Quantity			38
	Empty tubeplate hole	Quantity			0
	Tube type				7.0 Hi-XD
	Fin	Type			WF fin
		Treatment			Anti-corrosion treatment
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
		Cooling	High	m^3/min	85.0
Fan motor	Quantity				1
	Model				Brushless DC motor
Fan motor	Speed	Steps			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
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	25 (6)
		Water side	Min.	°C	9 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
		Water side	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (6)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
Safety devices	Item	04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	76.7
		Cooling		kPa	88.4
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
	Water volume			l	2.16
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (2)
		Cooling	Nom.	l/min	40.2 (3) / 43.9 (4)
	Insulation material				EPDM type
	Heater			W	50.0

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Technical specifications					EBLA16DV37
Expansion vessel	Volume			l	8
	Max. water pressure			bar	4
	Pre pressure			bar	1
	Heater			W	65
Water filter	Diameter perforations			mm	0.8
	Material				Stainless steel
Water circuit	Piping connections diameter			inch	G 1" (male)
	Piping			inch	1-1/4"
	Piping length	Max.	OU - Tank	m	10
	Level difference	Max.		m	5
	Safety valve			bar	3
	Drain valve / fill valve				Yes
	Shut off valve				Yes
	Air purge valve				Yes (Manually)
	Minimum water volume in the system			l	50 (7)
	Heater			W	66.0
General	Supplier/ 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			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	7,359
			ηs (Seasonal space heating efficiency)	%	132
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
			SCOP		3.37
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/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

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Technical specifications					EBLA16DV37
Space heating	Average climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,599
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent temperature)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,281
			ηs (Seasonal space heating efficiency)	%	185
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.69
			Seasonal space heating eff. class		A+++
		A Condition (-7°CDB/-8°CWB)	COPd		2.87
			Pdh	kW	11.2

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Technical specifications					EBLA16DV37
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
			ηs (Seasonal space heating efficiency)	%	160
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-	Cdh (Degradation heating)		1.0
			COPd		5.64
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EBLA16DV37
Compressor component	Main power supply	Phase		1~
		Voltage	V	230
	Voltage range	Min.	%	-10
		Max.	%	10
Power supply	Name			V3
	Phase			1~
	Frequency		Hz	50
	Voltage		V	230
Voltage range	Min.		%	-10
	Max.		%	10

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Electrical specifications				EBLA16DV37
Current	Maximum running current	Heating	A	30.8
	Recommended fuses		A	32
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	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 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

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

2 Specifications

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Technical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			14		
	Face area			m^2	0.950 /0.970 /1.00		
	Stages	Quantity			38		
	Empty tubeplate hole	Quantity			0		
	Tube type				7.0 Hi-XD		
	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m^3/min	48.0	55.8	70.4
		Cooling	High	m^3/min	63.1	70.4	85.0
Fan motor	Quantity				1		
Fan motor	Model				Brushless DC motor		
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
		Cooling	Nom.	rpm	500	550	650
	Output			W	230		
	Drive				Direct drive		
Compressor	Quantity				1		
	Model				2Y350BPAX1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (6)		
			Max.	°C	60 (6)		
	Cooling	Ambient	Min.	°CDB	10		
			Max.	°CDB	43		
		Water side	Min.	°C	5		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (6)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
Safety devices	Item	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
		Cooling		kPa	107.0	98.4	92.3
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
		Cooling	Nom.	l/min	26.8 (3) / 26.1 (4)	33.2 (3) / 33.0 (4)	36.8 (3) / 36.3 (4)
	Insulation material				EPDM type		
	Heater			W	50.0		

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Expansion vessel	Volume			l	8		
	Max. water pressure			bar	4		
	Pre pressure			bar	1		
	Heater			W	65		
Water filter	Diameter perforations			mm	0.8		
	Material				Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)		
	Piping			inch	1-1/4"		
	Piping 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		
General	Product description	Low-temperature heat pump			No		
		Supplementary heater integrated			Yes		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
	Integrated supplementary heater	Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/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

2 Specifications

2 - 1 Specifications

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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd		4.52	4.37	4.35
			Pdh	kW	5.5		6.1
			PERd	%	180.8	174.8	174.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	
			PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C		-10	
			WTOL	°C		35	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,351	5,732	6,266
			ηs (Seasonal space heating efficiency)	%	163	169	170
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,938	2,128	2,333
			ηs (Seasonal space heating efficiency)	%	243	248	249
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd		7.87		7.73
			Pdh	kW		5.2	
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C		2	
Control systems	Class of temperature control					VI	
	Contribution to seasonal space heating efficiency			%		4	

Electrical specifications				EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
Compressor component	Main power supply	Phase			1~	
		Voltage	V		230	
	Voltage range	Min.	%		-10	
		Max.	%		10	

2 Specifications

2 - 1 Specifications

Electrical specifications					EBLA09D3V3	EBLA11D3V3	EBLA14D3V3
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		
	Quantity				2		
	Type of wires				Wire included in option EKFLSW1		
	For power supply	Quantity			2G		
		Remark			See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity			4		
		Remark			0.75 mm^2 till 1.25 mm^2 (max length 200 m)		
		Type of wires			0,75 ~1,25 mm^2 (P1P2)		
	Preferential kWh rate power supply	Quantity			Power: 2		
		Remark			Power 6.3A		
	Domestic hot water pump	Quantity			3		
		Remark			Minimum 0.75 mm^2		
Cable requirements	Cooling/ Heating output	Maximum running current		A	3		

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

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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3V37
Dimensions	Unit	Height		mm	870
		Width		mm	1,380
		Depth		mm	460
	Packed unit	Height		mm	1,053
		Width		mm	1,520
		Depth		mm	650
Weight	Unit			kg	149
	Packed unit			kg	166
Packing	Material				PE wrapping foil / Carton / Wood (pallet)
	Weight			kg	17
Heat exchanger	Length			mm	1,136 /1,166 /1,195
	Rows	Quantity			3
	Fin pitch			mm	1.4
	Passes	Quantity			14
	Face area			m^2	0.950 /0.970 /1.00
	Stages	Quantity			38
	Empty tubeplate hole	Quantity			0
	Tube type				7.0 Hi-XD
	Fin	Type			WF fin
		Treatment			Anti-corrosion treatment
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
		Cooling	High	m^3/min	85.0
Fan motor	Quantity				1
Fan motor	Model				Brushless DC motor
	Speed	Steps			8
		Heating	Nom.	rpm	650
		Cooling	Nom.	rpm	650
	Output			W	230
	Drive				Direct drive
Compressor	Quantity				1
	Model				2Y350BPAX1P#C
	Type				Hermetically sealed swing compressor
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	15 (6)
			Max.	°C	60 (6)
	Cooling	Ambient	Min.	°CDB	10
			Max.	°CDB	43
		Water side	Min.	°C	5
			Max.	°C	22
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (6)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
Safety devices	Item	03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3V37
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	71.4
		Cooling		kPa	85.5
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
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/ 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
General	Product description	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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3V37
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,359
			ηs (Seasonal space heating efficiency)	%	132
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
			SCOP		3.37
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/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

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3V37
Space heating	Average climate water outlet 55°C	Tol (temperature operating limit)	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	9,599
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent temperature)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	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+++

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA16D3V37
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5
			PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,245
			ηs (Seasonal space heating efficiency)	%	160
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,573
			ηs (Seasonal space heating efficiency)	%	246
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	9
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EBLA16D3V37
Compressor component	Main power supply	Phase		1~
		Voltage	V	230
	Voltage range	Min.	%	-10
		Max.	%	10

2 Specifications

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Electrical specifications					EBLA16D3V37
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 mm²
	R5T	Quantity			2
		Type of wires			Wire included in option EKHWS*
	For connection with R6T	Quantity			2
		Remark			Minimum 0.75 mm²
	A3P	Quantity			4
		Type of wires			Select diameter and type according to national and local regulations
	M2S	Quantity			2
		Type of wires			Select diameter and type according to national and local regulations
	M3S	Quantity			3
		Type of wires			Select diameter and type according to national and local regulations
	Quantity				2
	Type of wires				Wire included in option EKFLSW1
	For power supply	Quantity			2G
		Remark			See installation manual outdoor unit
Wiring connections	For connection with user interface	Quantity			4
		Remark			0.75 mm² till 1.25 mm² (max length 200 m)
		Type of wires			0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity			Power: 2
		Remark			Power 6.3A
	Domestic hot water pump	Quantity			3
		Remark			Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current		A	3

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

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

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1
Weight	Unit			kg	147		
	Packed unit			kg	164		
Packing	Material				PE wrapping foil / Carton / Wood (pallet)		
	Weight			kg	17		
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			13		
	Face area			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		
	Drive				Direct drive		
Compressor	Quantity				1		
Compressor	Model				2Y350BPAY1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	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	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.5	102.9	97.6
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
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		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1
Water filter	Diameter perforations			mm	0.8		
	Material				Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)		
	Piping			inch	1-1/4"		
	Piping 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		
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
	Product description	Air-to-water heat pump			Yes		
		Brine-to-water heat pump			No		
		Heat pump combination heater			No		
		Low-temperature heat pump			No		
		Supplementary heater integrated			No		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
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

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1
Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	20	22	24
			SCOP		3.39	3.32	3.37
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.45	6.41	6.58
			Pdh	kW	5.3		
			PERd	%	258.0	256.4	263.2
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70
			Pdh	kW	6.8	7.6	7.8
			PERd	%	68.0	65.6	68.0
			TOL	°C	-10		
			WTOL	°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,142	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

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1
Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj	11		14
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent tempera-ture)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	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°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09DW1	EDLA11DW1	EDLA14DW1
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C	-10		
			WTOL	°C	35		
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,031	5,783	6,317
			ηs (Seasonal space heating efficiency)	%	173	168	169
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	18	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435
			ηs (Seasonal space heating efficiency)	%	233	237	238
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	9
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

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

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Electrical specifications				EDLA09DW1	EDLA11DW1	EDLA14DW1
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	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 mm² till 1.25 mm² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
		Remark		Minimum 0.75 mm²		
Cable requirements	Cooling/ Heating output	Maximum running current	A	3		

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

Technical specifications				EDLA16DW17
Heating capacity	Nom.		kW	16.0 (1) / 16.0 (2)
Power input	Heating		kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit		kg	147
	Packed unit		kg	164
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight		kg	17
Heat exchanger	Length		mm	1,136 /1,166 /1,195
	Rows	Quantity		3
	Fin pitch		mm	1.4
	Passes	Quantity		13
	Face area		m²	0.950 /0.970 /1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		2
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment
Fan	Type			Propeller fan
	Quantity			1
	Discharge direction			Horizontal
	Air flow rate	Heating High	m³/min	85.0

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Technical specifications					EDLA16DW17
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
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	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	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	76.7
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
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)
	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

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2 - 1 Specifications

Technical specifications					EDLA16DW17
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
		Name or trademark			Daikin Europe N.V.
	Product description	Air-to-water heat pump			Yes
		Brine-to-water heat pump			No
		Heat pump combination heater			No
		Low-temperature heat pump			No
		Supplementary heater integrated			No
		Water-to-water heat pump			No
LW(A) Sound power level (according to EN14825)				dB(A)	62.0
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	5,100
	Other	Capacity control			Inverter
		Pck (Crankcase heater mode)		kW	0.000
		Poff (Off mode)		kW	0.023
		Psb (Standby mode)		kW	0.023
		Pto (Thermostat off)		kW	0.023
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444
			ηs (Seasonal space heating efficiency)	%	130
Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	27
			SCOP		3.33
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.60
			Pdh	kW	5.3
			PERd	%	264.0
		Tol (temperature operating limit)	COPd		1.67
			Pdh	kW	8.0
			PERd	%	66.8
			TOL	°C	-10
			WTOL	°C	55
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,561
			ηs (Seasonal space heating efficiency)	%	121
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519
			ηs (Seasonal space heating efficiency)	%	164
			Prated at 2°C	kW	14.1

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DW17
Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent tempera-ture)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	%	182
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.62
			Seasonal space heating eff. class		A+++
		A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5

2 Specifications

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Technical specifications					EDLA16DW17
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296
			ηs (Seasonal space heating efficiency)	%	159
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,675
			ηs (Seasonal space heating efficiency)	%	237
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	10
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EDLA16DW17
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

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Electrical specifications				EDLA16DW17
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	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 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Heating capacity	Nom.			kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Heater capacity	Step 1			kW	3		
Power input	Heating			kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP					4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour				Silver		
	Material				Polyester painted galvanised steel plate		
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
	Packed unit	Height		mm	1,053		
		Width		mm	1,520		
		Depth		mm	650		
Weight	Unit			kg	149		
	Packed unit			kg	166		
Packing	Material				PE wrapping foil / Carton / Wood (pallet)		
	Weight			kg	17		
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			13		
	Face area			m²	0.950 /0.970 /1.00		
	Stages	Quantity			38		
	Empty tubeplate hole	Quantity			2		
	Tube type				7.0 Hi-XD		
	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Fan motor	Quantity				1		
	Model				Brushless DC motor		
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
	Output			W	234		
	Drive				Direct drive		
Compressor	Quantity				1		
	Model				2Y350BPAY1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (3)		
			Max.	°C	60 (3)		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (3)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.9	102.7	96.5
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
Water side Heat exchanger	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
	Insulation material				EPDM type		
	Heater			W	50.0		
Expansion vessel	Volume			l	8		
	Max. water pressure			bar	4		
	Pre pressure			bar	1		
	Heater			W	65		
Water filter	Diameter perforations			mm	0.8		
	Material				Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)		
	Piping			inch	1-1/4"		
	Piping length	Max.	OU - Tank	m	10		
	Level difference	Max.		m	5		
	Safety valve			bar	3		
	Drain valve / fill valve				Yes		
	Shut off valve				Yes		
	Air purge valve				Yes		
	Minimum water volume in the system			l	20 (4)		
	Heater			W	66.0		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
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	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
	Integrated supplementary heater	Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488	6,218	6,735
			ηs (Seasonal space heating efficiency)	%	133	130	132
			Prated at -10°C	kW	9.0	10.0	11.0
			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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.45	6.41	6.58
			Pdh	kW	5.3		
			PERd	%	258.0	256.4	263.2
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70
			Pdh	kW	6.8	7.6	7.8
			PERd	%	68.0	65.6	68.0
			TOL	°C	-10		
			WTOL	°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,142	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

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2 - 1 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Space heating	Warm climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	162	165	168
			Prated at 2°C	kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV)	Gj	11		14
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent tempera-ture)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	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°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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	5,031	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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

Electrical specifications					EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Compressor component	Main power supply	Phase			3N~		
		Voltage		V	400		
	Voltage range	Min.		%	-10		
		Max.		%	10		
Hydraulic component	Back-up heater current	Type			3V3		
		Power supply	Phase		1~		
			Frequency	Hz	50		
			Voltage	V	230		
		Running current	Back-up heater	A	13.0		
	Voltage range	Min.		%	-10		
		Max.		%	10		
	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		

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2 - 1 Specifications

Electrical specifications				EDLA09D3W1	EDLA11D3W1	EDLA14D3W1
Current	Maximum running current	Heating	A	14.0		
	Recommended fuses		A	16		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	A3P	Quantity		4		
		Type of wires		Select diameter and type according to national and local regulations		
	M2S	Quantity		2		
		Type of wires		Select diameter and type according to national and local regulations		
	M3S	Quantity		3		
		Type of wires		Select diameter and type according to national and local regulations		
	Quantity			2		
	Type of wires			Wire included in option EKFLSW1		
	For power supply	Quantity		4G		
		Remark		See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity		4		
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
		Remark		Minimum 0.75 mm²		
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		kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit		kg	149
	Packed unit		kg	166
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight		kg	17
Heat exchanger	Length		mm	1,136 /1,166 /1,195
	Rows	Quantity		3
	Fin pitch		mm	1.4
	Passes	Quantity		13
	Face area		m²	0.950 /0.970 /1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		2
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3W17
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
Fan motor	Quantity				1
	Model				Brushless DC motor
	Speed	Steps			8
		Heating	Nom.	rpm	650
	Output			W	234
	Drive				Direct drive
Compressor	Quantity				1
	Model				2Y350BPAY1P#C
	Type				Hermetically sealed swing compressor
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	15 (3)
			Max.	°C	60 (3)
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (3)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	71.4
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
Water side Heat exchanger	Water volume			l	2.16
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (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
Water circuit	Piping connections diameter			inch	G 1" (male)
	Piping			inch	1-1/4"
	Piping length	Max.	OU - Tank	m	10
	Level difference	Max.		m	5
	Safety valve			bar	3
	Drain valve / fill valve				Yes
	Shut off valve				Yes
	Air purge valve				Yes
	Minimum water volume in the system			l	20 (4)
	Heater			W	66.0

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Technical specifications					EDLA16D3W17
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
			ηs (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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.60
			Pdh	kW	5.3
			PERd	%	264.0
		Tol (temperature operating limit)	COPd		1.67
			Pdh	kW	8.0
			PERd	%	66.8
			TOL	°C	-10
			WTOL	°C	55
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,561
			ηs (Seasonal space heating efficiency)	%	121
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519

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Technical specifications					EDLA16D3W17
Space heating	Warm climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	164
			Prated at 2°C	kW	14.1
			Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent tempera-ture)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	%	182
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.62
			Seasonal space heating eff. class		A+++
		A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0

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Technical specifications					EDLA16D3W17
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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	7,296
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications					EDLA16D3W17
Compressor component	Main power supply	Phase			3N~
		Voltage		V	400
	Voltage range	Min.		%	-10
		Max.		%	10
Hydraulic component	Back-up heater current	Type			3V3
		Power supply	Phase		1~
			Frequency	Hz	50
			Voltage	V	230
		Running current	Back-up heater	A	13.0
	Voltage range	Min.		%	-10
		Max.		%	10
	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

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Electrical specifications				EDLA16D3W17
Current	Maximum running current	Heating	A	14.0
	Recommended fuses		A	16
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		4G
		Remark		See installation manual outdoor unit
Wiring connections	For connection with user interface	Quantity		4
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

Technical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Heating capacity	Nom.		kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Power input	Heating		kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP				4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour			Silver		
	Material			Polyester painted galvanised steel plate		
Dimensions	Unit	Height	mm	870		
		Width	mm	1,380		
		Depth	mm	460		
	Packed unit	Height	mm	1,053		
		Width	mm	1,520		
		Depth	mm	650		
Weight	Unit		kg	147		
	Packed unit		kg	164		
Packing	Material			PE wrapping foil / Carton / Wood (pallet)		
	Weight		kg	17		
Heat exchanger	Length		mm	1,136 /1,166 /1,195		
	Rows	Quantity		3		
	Fin pitch		mm	1.4		
	Passes	Quantity		14		
	Face area		m²	0.950 /0.970 /1.00		
	Stages	Quantity		38		
	Empty tubeplate hole	Quantity		0		
	Tube type			7.0 Hi-XD		
	Fin	Type		WF fin		
		Treatment		Anti-corrosion treatment		

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Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3
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		
	Drive				Direct drive		
Compressor	Quantity				1		
Compressor	Model				2Y350BPAX1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	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	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.5	102.9	97.6
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
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		
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		

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Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
	Product description	Air-to-water heat pump			Yes		
		Brine-to-water heat pump			No		
		Heat pump combination heater			No		
		Low-temperature heat pump			No		
		Supplementary heater integrated			No		
		Water-to-water heat pump			No		
LW(A) Sound power level (according to EN14825)				dB(A)	62.0		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488	6,218	6,735
			ηs (Seasonal space heating efficiency)	%	133	130	132
Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	20	22	24
			SCOP		3.39	3.32	3.37
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.45	6.41	6.58
			Pdh	kW	5.3		
			PERd	%	258.0	256.4	263.2
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70
			Pdh	kW	6.8	7.6	7.8
			PERd	%	68.0	65.6	68.0
			TOL	°C	-10		
			WTOL	°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,427	8,247	8,858
			ηs (Seasonal space heating efficiency)	%	117		119
			Prated at -22°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	27	30	32
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,921	3,184	3,792
			ηs (Seasonal space heating efficiency)	%	162	165	168
			Prated at 2°C	kW	9.0	10.0	12.1

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Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3
Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj	11		14
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent tempera-ture)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	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°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		8.75	8.54	8.65
			Pdh	kW	5.5	5.4	

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Technical specifications					EDLA09DV3	EDLA11DV3	EDLA14DV3
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	PERd	%	350.0	341.6	346.0
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51
			Pdh	kW	8.3	10.1	11.2
			PERd	%	105.6	103.2	100.4
			TOL	°C	-10		
			WTOL	°C	35		
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51
			Pdh	kW	8.7	10.1	11.2
			PERd	%	110.0	103.2	100.4
			Tbiv	°C	-9	-10	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.7	0.0	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,402	5,783	6,317
			ηs (Seasonal space heating efficiency)	%	161	168	169
			Prated at -22°C	kW	10.0		11.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435
			ηs (Seasonal space heating efficiency)	%	233	237	238
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	9
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

Electrical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
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

2 - 1 Specifications

Electrical specifications				EDLA09DV3	EDLA11DV3	EDLA14DV3
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	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 mm² till 1.25 mm² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
		Remark		Minimum 0.75 mm²		
Cable requirements	Cooling/ Heating output	Maximum running current	A	3		

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

Technical specifications					EDLA16DV37
Heating capacity	Nom.			kW	16.0 (1) / 16.0 (2)
Power input	Heating			kW	3.53 (1) / 4.56 (2)
COP					4.53 (1) / 3.51 (2)
Casing	Colour				Silver
	Material				Polyester painted galvanised steel plate
Dimensions	Unit	Height		mm	870
		Width		mm	1,380
		Depth		mm	460
	Packed unit	Height		mm	1,053
		Width		mm	1,520
		Depth		mm	650
Weight	Unit			kg	147
	Packed unit			kg	164
Packing	Material				PE wrapping foil / Carton / Wood (pallet)
	Weight			kg	17
Heat exchanger	Length			mm	1,136 /1,166 /1,195
	Rows	Quantity			3
	Fin pitch			mm	1.4
	Passes	Quantity			14
	Face area			m²	0.950 /0.970 /1.00
	Stages	Quantity			38
	Empty tubeplate hole	Quantity			0
	Tube type				7.0 Hi-XD
	Fin	Type			WF fin
		Treatment			Anti-corrosion treatment
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m³/min	85.0

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37
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
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	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	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	76.7
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
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)
	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

2 - 1 Specifications

Technical specifications					EDLA16DV37
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
		Name or trademark			Daikin Europe N.V.
	Product description	Air-to-water heat pump			Yes
		Brine-to-water heat pump			No
		Heat pump combination heater			No
		Low-temperature heat pump			No
		Supplementary heater integrated			No
		Water-to-water heat pump			No
LW(A) Sound power level (according to EN14825)				dB(A)	62.0
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	5,100
	Other	Capacity control			Inverter
		Pck (Crankcase heater mode)		kW	0.000
		Poff (Off mode)		kW	0.023
		Psb (Standby mode)		kW	0.023
		Pto (Thermostat off)		kW	0.023
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,444
			ηs (Seasonal space heating efficiency)	%	130
Space heating	Average climate water outlet 55°C	General	Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	27
			SCOP		3.33
			Seasonal space heating eff. class		A++
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.60
			Pdh	kW	5.3
			PERd	%	264.0
		Tol (temperature operating limit)	COPd		1.67
			Pdh	kW	8.0
			PERd	%	66.8
			TOL	°C	-10
			WTOL	°C	55
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,650
			ηs (Seasonal space heating efficiency)	%	120
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	35
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519
			ηs (Seasonal space heating efficiency)	%	164
			Prated at 2°C	kW	14.1

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37
Space heating	Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent tempera-ture)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	%	182
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.62
			Seasonal space heating eff. class		A+++
		A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		8.82
			Pdh	kW	5.5

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16DV37
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	PERd	%	352.8
		Tol (temperature operating limit)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			TOL	°C	-10
			WTOL	°C	35
		Tbiv (bivalent temperature)	COPd		2.48
			Pdh	kW	11.8
			PERd	%	99.2
			Tbiv	°C	-10
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.0
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,296
			ηs (Seasonal space heating efficiency)	%	159
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	26
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,675
			ηs (Seasonal space heating efficiency)	%	237
			Prated at 2°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	10
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications				EDLA16DV37
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

2 - 1 Specifications

Electrical specifications				EDLA16DV37
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	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 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Heating capacity	Nom.			kW	9.37 (1) / 9.00 (2)	10.6 (1) / 9.82 (2)	12.0 (1) / 12.5 (2)
Heater capacity	Step 1			kW	3		
Power input	Heating			kW	1.91 (1) / 2.43 (2)	2.18 (1) / 2.68 (2)	2.46 (1) / 3.42 (2)
COP					4.91 (1) / 3.71 (2)	4.83 (1) / 3.66 (2)	4.87 (1) / 3.64 (2)
Casing	Colour				Silver		
	Material				Polyester painted galvanised steel plate		
Dimensions	Unit	Height		mm	870		
		Width		mm	1,380		
		Depth		mm	460		
	Packed unit	Height		mm	1,053		
		Width		mm	1,520		
		Depth		mm	650		
Weight	Unit			kg	149		
	Packed unit			kg	166		
Packing	Material				PE wrapping foil / Carton / Wood (pallet)		
	Weight			kg	17		
Heat exchanger	Length			mm	1,136 /1,166 /1,195		
	Rows	Quantity			3		
	Fin pitch			mm	1.4		
	Passes	Quantity			14		
	Face area			m²	0.950 /0.970 /1.00		
	Stages	Quantity			38		
	Empty tubeplate hole	Quantity			0		
	Tube type				7.0 Hi-XD		
	Fin	Type			WF fin		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
	Air flow rate	Heating	High	m³/min	48.0	55.8	70.4

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Fan motor	Quantity				1		
	Model				Brushless DC motor		
	Speed	Steps			8		
		Heating	Nom.	rpm	400	450	550
	Output			W	230		
	Drive				Direct drive		
Compressor	Quantity				1		
	Model				2Y350BPAX1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	15 (3)		
			Max.	°C	60 (3)		
	Domestic hot water	Ambient	Min.	°CDB	-25		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (3)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge			kg	3.80		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Nominal ESP unit	Heating		kPa	106.9	102.7	96.5
	Power input			W	180		
	Type				Grundfos UPMXL GEO 25-125 130 PWM		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
Water side Heat exchanger	Water volume			l	2.16		
	Water flow rate	Heating	Nom.	l/min	26.9 (1) / 25.8 (2)	30.3 (1) / 28.2 (2)	34.4 (1) / 35.7 (2)
	Insulation material				EPDM type		
	Heater			W	50.0		
Expansion vessel	Volume			l	8		
	Max. water pressure			bar	4		
	Pre pressure			bar	1		
	Heater			W	65		
Water filter	Diameter perforations			mm	0.8		
	Material				Stainless steel		
Water circuit	Piping connections diameter			inch	G 1" (male)		
	Piping			inch	1-1/4"		
	Piping length	Max.	OU - Tank	m	10		
	Level difference	Max.		m	5		
	Safety valve			bar	3		
	Drain valve / fill valve				Yes		
	Shut off valve				Yes		
	Air purge valve				Yes		
	Minimum water volume in the system			l	20 (4)		
	Heater			W	66.0		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
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	2,880	3,350	4,220
	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.023		
		Psb (Standby mode)		kW	0.023		
		Pto (Thermostat off)		kW	0.023		
	Integrated supplementary heater	Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,488	6,218	6,735
			ηs (Seasonal space heating efficiency)	%	133	130	132
			Prated at -10°C	kW	9.0	10.0	11.0
			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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.09	1.90	2.02
			Pdh	kW	8.5	9.3	9.4
			PERd	%	83.6	76.0	80.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.28	3.25	3.28
			Pdh	kW	5.0	5.4	6.2
			PERd	%	131.2	130.0	131.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.80	4.81	4.88
			Pdh	kW	4.4		
			PERd	%	192.0	192.4	195.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.45	6.41	6.58
			Pdh	kW	5.3		
			PERd	%	258.0	256.4	263.2
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70
			Pdh	kW	6.8	7.6	7.8
			PERd	%	68.0	65.6	68.0
			TOL	°C	-10		
			WTOL	°C	55		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09
			Pdh	kW	8.8	9.3	9.4
			PERd	%	76.8	76.0	83.6
			Tbiv	°C	-8	-7	-6
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,427	8,247	8,858
			ηs (Seasonal space heating efficiency)	%	117		119
			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

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Space heating	Warm climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	162	165	168
			Prated at 2°C	kW	9.0	10.0	12.1
			Qhe Annual energy consumption (GCV)	Gj	11		14
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.12	2.18	2.17
			Pdh	kW	9.0	9.8	
			PERd	%	84.8	87.2	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.65	3.74	3.83
			Pdh	kW	6.2		7.6
			PERd	%	146.0	149.6	153.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.68		5.69
			Pdh	kW	5.0		
			PERd	%	227.2		227.6
		Tbiv (bivalent tempera-ture)	COPd		2.12	2.18	2.40
			Pdh	kW	9.0	9.8	11.0
			PERd	%	84.8	87.2	96.0
			Tbiv	°C	2		3
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,939	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°CD-B/-8°CWB)	COPd		3.07	3.03	2.95
			Pdh	kW	8.5	9.2	10.1
			PERd	%	122.8	121.2	118.0
		B Condition (2°CD-B/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°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.78	6.74	6.70
			Pdh	kW	4.7	4.6	
			PERd	%	271.2	269.6	268.0
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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	5,402	5,783	6,317
			ηs (Seasonal space heating efficiency)	%	161	168	169
			Prated at -22°C	kW	10.0		11.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,039	2,230	2,435
			ηs (Seasonal space heating efficiency)	%	233	237	238
			Prated at 2°C	kW	9.0	10.0	11.0
			Qhe Annual energy consumption (GCV)	Gj	7	8	9
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.59	5.70	5.77
			Pdh	kW	5.9	6.7	7.4
			PERd	%	223.6	228.0	230.8
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		7.87		7.73
			Pdh	kW	5.2		
			PERd	%	314.8		309.2
		Tbiv (bivalent temperature)	COPd		3.36	3.30	3.45
			Pdh	kW	9.0	10.3	10.8
			PERd	%	134.4	132.0	138.0
			Tbiv	°C	2		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4		

Electrical specifications					EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Compressor 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		

2 Specifications

2 - 1 Specifications

Electrical specifications				EDLA09D3V3	EDLA11D3V3	EDLA14D3V3
Current	Maximum running current	Heating	A	30.8		
	Recommended fuses		A	32		
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G		
		Type of wires		Minimum 2.5 mm²		
	R5T	Quantity		2		
		Type of wires		Wire included in option EKHWS*		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	A3P	Quantity		4		
		Type of wires		Select diameter and type according to national and local regulations		
	M2S	Quantity		2		
		Type of wires		Select diameter and type according to national and local regulations		
	M3S	Quantity		3		
		Type of wires		Select diameter and type according to national and local regulations		
	Quantity			2		
	Type of wires			Wire included in option EKFLSW1		
	For power supply	Quantity		2G		
		Remark		See installation manual outdoor unit		
Wiring connections	For connection with user interface	Quantity		4		
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)		
		Type of wires		0,75 ~1,25 mm² (P1P2)		
	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A		
	Domestic hot water pump	Quantity		3		
		Remark		Minimum 0.75 mm²		
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		kW	3.53 (1) / 4.56 (2)
COP				4.53 (1) / 3.51 (2)
Casing	Colour			Silver
	Material			Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	870
		Width	mm	1,380
		Depth	mm	460
	Packed unit	Height	mm	1,053
		Width	mm	1,520
		Depth	mm	650
Weight	Unit		kg	149
	Packed unit		kg	166
Packing	Material			PE wrapping foil / Carton / Wood (pallet)
	Weight		kg	17
Heat exchanger	Length		mm	1,136 /1,166 /1,195
	Rows	Quantity		3
	Fin pitch		mm	1.4
	Passes	Quantity		14
	Face area		m²	0.950 /0.970 /1.00
	Stages	Quantity		38
	Empty tubeplate hole	Quantity		0
	Tube type			7.0 Hi-XD
	Fin	Type		WF fin
		Treatment		Anti-corrosion treatment

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37
Fan	Type				Propeller fan
	Quantity				1
	Discharge direction				Horizontal
	Air flow rate	Heating	High	m^3/min	85.0
Fan motor	Quantity				1
	Model				Brushless DC motor
	Speed	Steps			8
		Heating	Nom.	rpm	650
	Output			W	230
	Drive				Direct drive
Compressor	Quantity				1
	Model				2Y350BPAX1P#C
	Type				Hermetically sealed swing compressor
	Starting method				Inverter driven
PED	Category				Category II
	Most critical part	Name			Accumulator
		Ps*V		Bar*l	159
Operation range	Heating	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	15 (3)
			Max.	°C	60 (3)
	Domestic hot water	Ambient	Min.	°CDB	-25
			Max.	°CDB	35
		Water side	Min.	°C	25
			Max.	°C	55 (3)
Refrigerant	Type				R-32
	GWP				675.0
	Charge			kg	3.80
	Control				Expansion valve
	Circuits	Quantity			1
Refrigerant oil	Type				FW68DA
	Charged volume			l	1.35
Defrost method					Reversed cycle
Defrost control					Sensor for outdoor heat exchanger temperature
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Low pressure switch
		03			Fan driver overload protector
		04			Fuse
		05			Compressor motor thermal protector
Pump	Quantity				1
	Nr of speeds				PWM
	Nominal ESP unit	Heating		kPa	71.4
	Power input			W	180
	Type				Grundfos UPMXL GEO 25-125 130 PWM
Water side Heat exchanger	Type				Plate heat exchanger
	Quantity				1
Water side Heat exchanger	Water volume			l	2.16
	Water flow rate	Heating	Nom.	l/min	45.9 (1) / 45.9 (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
Water circuit	Piping connections diameter			inch	G 1" (male)
	Piping			inch	1-1/4"
	Piping length	Max.	OU - Tank	m	10
	Level difference	Max.		m	5
	Safety valve			bar	3
	Drain valve / fill valve				Yes
	Shut off valve				Yes
	Air purge valve				Yes
	Minimum water volume in the system			l	20 (4)
	Heater			W	66.0

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37
General	Supplier/ Manufacturer details	Name and address			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
			ηs (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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0
			COPd		1.95
			Pdh	kW	9.4
			PERd	%	78.0
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.27
			Pdh	kW	6.9
			PERd	%	130.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.93
			Pdh	kW	4.4
			PERd	%	197.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.60
			Pdh	kW	5.3
			PERd	%	264.0
		Tol (temperature operating limit)	COPd		1.67
			Pdh	kW	8.0
			PERd	%	66.8
			TOL	°C	-10
			WTOL	°C	55
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.1
		Tbiv (bivalent temperature)	COPd		2.13
			Pdh	kW	10.1
			PERd	%	85.2
			Tbiv	°C	-5
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,650
			ηs (Seasonal space heating efficiency)	%	120
			Prated at -22°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	35
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,519

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37
Space heating	Warm climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	164
			Prated at 2°C	kW	14.1
			Qhe Annual energy consumption (GCV)	Gj	16
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		2.17
			Pdh	kW	9.8
			PERd	%	86.8
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.73
			Pdh	kW	9.1
			PERd	%	149.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.69
			Pdh	kW	5.0
			PERd	%	227.6
		Tbiv (bivalent tempera-ture)	COPd		2.51
			Pdh	kW	12.1
			PERd	%	100.4
			Tbiv	°C	4
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,366
			ηs (Seasonal space heating efficiency)	%	182
			Prated at -10°C	kW	12.0
			Qhe Annual energy consumption (GCV)	Gj	19
			SCOP		4.62
			Seasonal space heating eff. class		A+++
		A Condition (-7°CD-B/-8°CWB)	COPd		2.87
			Pdh	kW	11.2
			PERd	%	114.8
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		4.33
			Pdh	kW	6.7
			PERd	%	173.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		6.83
			Pdh	kW	4.7
			PERd	%	273.2
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0

2 Specifications

2 - 1 Specifications

Technical specifications					EDLA16D3V37
Space heating	Average climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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	7,296
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0
			COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0
			COPd		5.64
			Pdh	kW	8.1
			PERd	%	225.6
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0
			COPd		7.73
			Pdh	kW	5.2
			PERd	%	309.2
		Tbiv (bivalent temperature)	COPd		3.30
			Pdh	kW	11.9
			PERd	%	132.0
			Tbiv	°C	2
Control systems	Class of temperature control				VI
	Contribution to seasonal space heating efficiency			%	4

Electrical specifications					EDLA16D3V37
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

2 Specifications

2 - 1 Specifications

Electrical specifications				EDLA16D3V37
Current	Maximum running current	Heating	A	30.8
	Recommended fuses		A	32
Wiring connections	Optional domestic hot water tank + Q2L	Quantity		3G
		Type of wires		Minimum 2.5 mm²
	R5T	Quantity		2
		Type of wires		Wire included in option EKHWS*
	For connection with R6T	Quantity		2
		Remark		Minimum 0.75 mm²
	A3P	Quantity		4
		Type of wires		Select diameter and type according to national and local regulations
	M2S	Quantity		2
		Type of wires		Select diameter and type according to national and local regulations
	M3S	Quantity		3
		Type of wires		Select diameter and type according to national and local regulations
	Quantity			2
	Type of wires			Wire included in option EKFLSW1
	For power supply	Quantity		2G
		Remark		See installation manual outdoor unit
Wiring connections	For connection with user interface	Quantity		4
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)
		Type of wires		0,75 ~1,25 mm² (P1P2)
	Preferential kWh rate power supply	Quantity		Power: 2
		Remark		Power 6.3A
	Domestic hot water pump	Quantity		3
		Remark		Minimum 0.75 mm²
Cable requirements	Cooling/ Heating output	Maximum running current	A	3

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

3 Electrical data

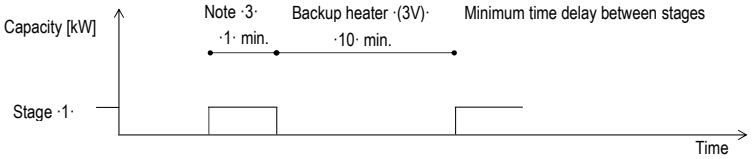
3 - 1 Electrical Data

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

Electrical specifications

Backup heater	Type				3V
	Capacity setting			kW	3
	Capacity stage · ·				1
	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 Zsys ≤ Zmax.
	EN/IEC 61000-3-11	European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.
	EN/IEC 61000-3-12	European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.
	Zsys	System impedance



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4 Combination table

4 - 1 Combination Table

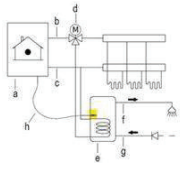
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1
EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1
EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17
EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Kit availability for ·E(B/D)LA*DA*·

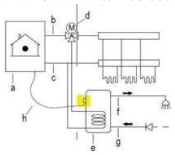
Reference	Description		Notes	E(B/D)LA(09/11/14/16)DA			
				No backup heater		Backup heater	
				Heating only	Reversible	Heating only	Reversible
				EDLA(09/11/14/16)DA(V3/W1), EDLA16DA (V37/W17)	EBLA(09/11/14/16)DA(V3/W1), EBLA16DA (V37/W17)	EDLA(09/11/14/16)DA3(V3/W1), EDLA16DA3 (V37/W17)	EBLA(09/11/14/16)DA3(V3/W1), EBLA16DA3 (V37/W17)
EKRP1HBAA	Digital I/O PCB		(1)	o	o	o	o
EKRP1AHTA	Demand PCB			o	o	o	o
BRC1HHDA*	Remote user interface			o	o	o	o
BRP069A78	WLAN cartridge		(2)	o	o	o	o
EKRELSG	Relay for Smart Grid			o	o	o	o
KRCS01-1	Remote indoor sensor		(3)	o	o	o	o
EKRSCA1	Remote sensor for outdoor		(3)	o	o	o	o
EKPCCAB4	PC cable kit			o	o	o	o
EKCC8-W	Universal centralised user interface			o	o	o	o
EKHY3PART	Third-party tank connection kit for thermistor pocket		(4) (6)	o	o	o	o
EKHY3PART2	Third-party tank connection kit for thermostat contact		(5) (6)	o	o	o	o
EKLBUHCB6W	Backup heater kit		(7)	o	o	-	-
EKMBHBP1	Valve kit		(7)	-	o	-	-
EKFLSW2	Flow switch		(8)	o	o	o	o
AFVALVE1	Freeze protection valve			o	o	o	o
FWXV10-15-20ABTV3*	Heat pump convector	Floor standing unit		o	o	o	o
FWXT10-15-20ABTV3*	Heat pump convector	Wall mounted type		o	o	o	o
FWXM10-15-20ATV3*	Heat pump convector	Conceiled ceiling		o	o	o	o
EKHWS(P)150D3V3	Domestic hot water tank ·LT 150 | 1~230V·			o	o	o	o
EKHWS(P)180D3V3	Domestic hot water tank ·LT 180 | 1~230V·			o	o	o	o
EKHWS(P)200D3V3	Domestic hot water tank ·LT 200 | 1~230V·			o	o	o	o
EKHWS(P)250D3V3	Domestic hot water tank ·LT 250 | 1~230V·			o	o	o	o
EKHWS(P)300D3V3	Domestic hot water tank ·LT 300 | 1~230V·			o	o	o	o
EKHWSU150D3V3	Domestic hot water tank ·LT 150 | 1~230V·	(only for UK)	(9)	o	o	o	o
EKHWSU180D3V3	Domestic hot water tank ·LT 180 | 1~230V·	(only for UK)	(9)	o	o	o	o
EKHWSU200D3V3	Domestic hot water tank ·LT 200 | 1~230V·	(only for UK)	(9)	o	o	o	o
EKHWSU250D3V3	Domestic hot water tank ·LT 250 | 1~230V·	(only for UK)	(9)	o	o	o	o
EKHWSU300D3V3	Domestic hot water tank ·LT 300 | 1~230V·	(only for UK)	(9)	o	o	o	o
EKHWP300B	Domestic hot water tank ·HT 300·		(10) (11)	o	o	o	o
EKHWP500B	Domestic hot water tank ·HT 500·		(10) (11)	o	o	o	o
EKHWP300PB	Domestic hot water tank ·HT 300·		(10) (11)	o	o	o	o
EKHWP500PB	Domestic hot water tank ·HT 500·		(10) (11)	o	o	o	o
BZKA7V3	Bizone kit			o	o	o	o
EKRTWA	Wired room thermostat			o	o	o	o
EKRTR1	Wireless room thermostat			o	o	o	o
EKRTETS	External temperature sensor option kit		(12)	o	o	o	o
EKWUFHTA1V3	Multi zoning kit			o	o	o	o

NOTES

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.
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 For details, see the installer reference guide. a thermistor.



6. Conditions for third-party tank
   Third-party with identical specifications as ·EKHWS*·
   Coil surface >·1.05·m^2 and <·3.7·m^2
   Tank thermistor and booster heater above heat pump coil.
7. Necessity to install a bypass kit ·EKMBHBP1· 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.

REMARK

Other combinations than mentioned in this combination table are prohibited.

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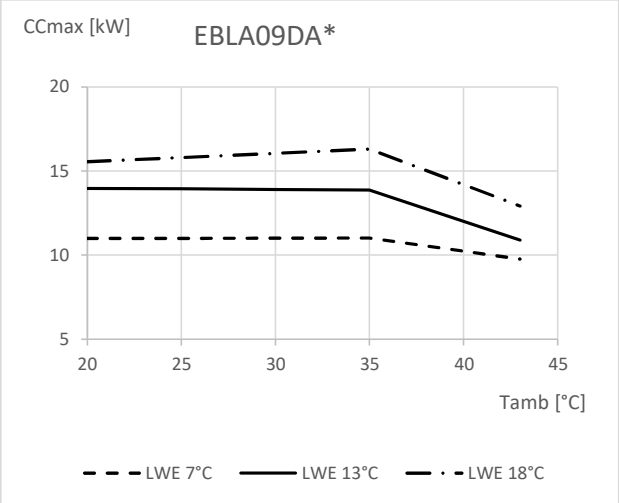
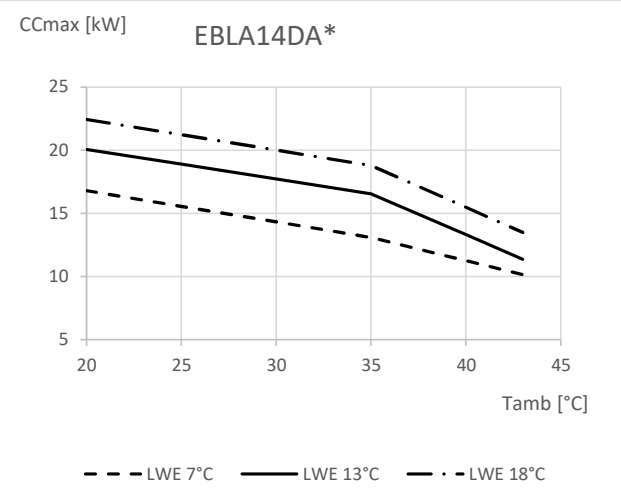
5 Capacity graphs

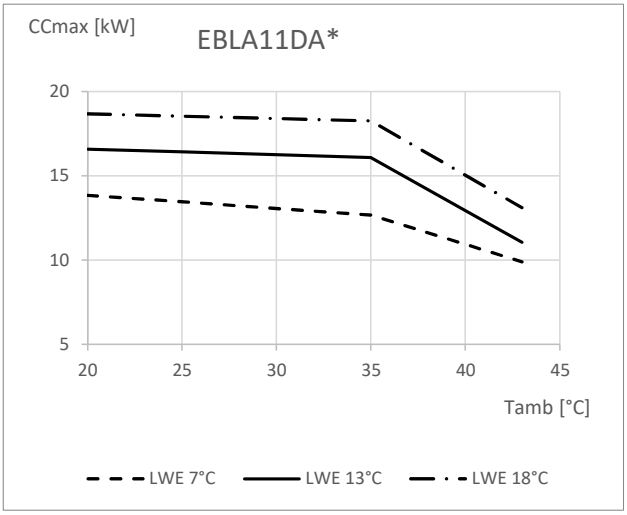
5 - 1 Cooling Capacity Graphs

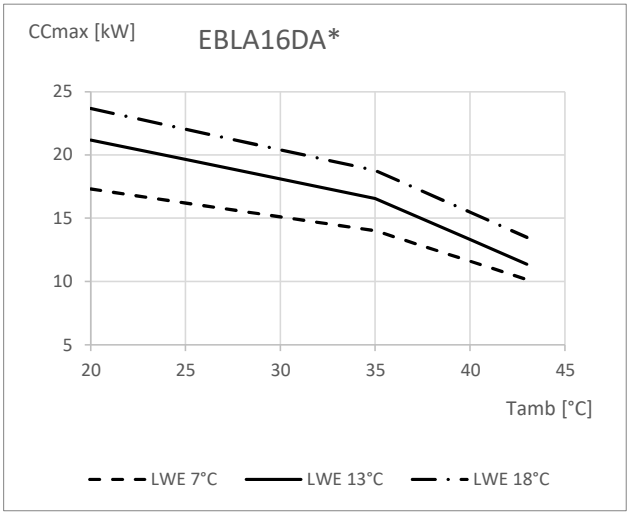
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17

Maximum cooling capacity









Symbols

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

LWE Leaving water evaporator temperature [°C]

Tamb Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3~8°C.

Notes

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

The capacity and the power input are at maximum operation.

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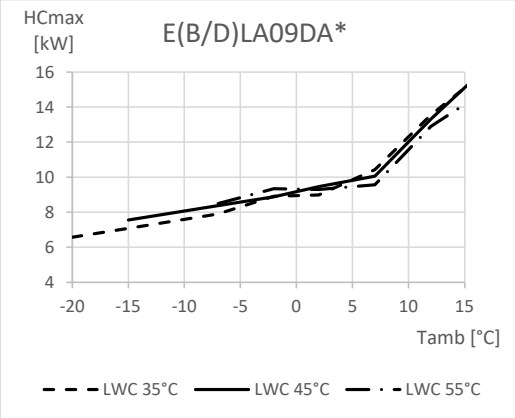
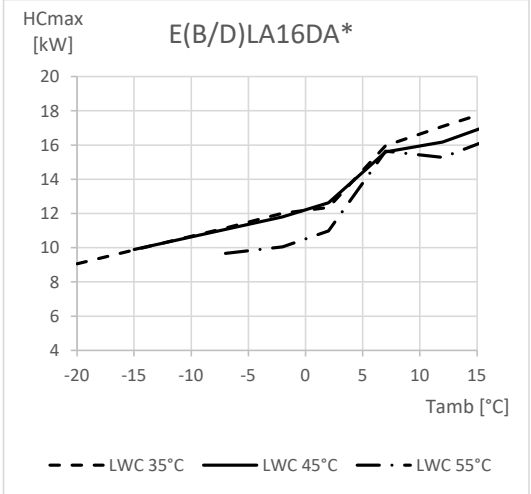
5 Capacity graphs

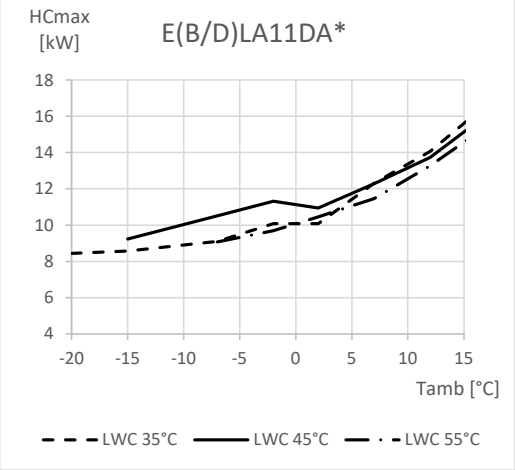
5 - 2 Heating Capacity Graphs

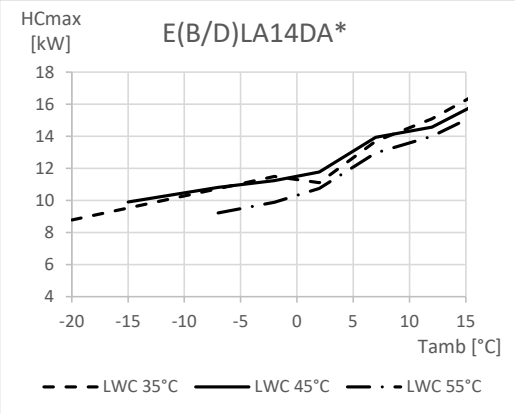
EBLA09-14D3V3 / EBLA09-14DV3 / EBLA09-14D3W1 / EBLA09-14DW1 EDLA09-14D3V3 / EDLA09-14DV3 / EDLA09-14D3W1 / EDLA09-14DW1 / EBLA-D3V37 / EBLA-DV37 / EBLA-D3W17 / EBLA-DW17 / EDLA-D3V37 / EDLA-DV37 / EDLA-D3W17 / EDLA-DW17

Maximum heating capacity - integrated value









Symbols

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

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3~8°C.

Notes

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

The capacity and the power input are at maximum operation.

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6 Capacity tables

6 - 1 Certification Programs

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

Rated data for certification programmes - heating mode

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

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

Rated data for certification programmes - cooling mode

Nominal cooling capacity

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

Seasonal data - cooling LWE 7°C Low temperature Application

		EBLA09DA(3)(V3/W1)	EBLA11DA(3)(V3/W1)	EBLA14DA(3)(V3/W1)	EBLA16DA(3)(V3/W1)(7)
SEER	[-]	9.3	11.5	12.8	14.000
Pdes	[kW]	5.62	5.79	5.71	5.59
$\eta_{s,c}$	[-]	222	229	226	221
Q_{CE}	[kWh/annum]	993	1190	1340	1500

Rated data for certification programmes - domestic hot water performance

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

SYMBOLS

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

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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
According to ·UNI/TS 11300·

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

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

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

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

Condition	Tamb	EWC	LWC	EBLA09DA(W1/3W1)		EBLA11DA(W1/3W1)		**EB/LA14DA(W1/3W1)**		EBLA16DA(W1/3W1)(7)	
	[°C]	[°C]	[°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	35	18	100	16.31	3.64	18.25	3.42	18.79	3.99	18.79	3.99
B	30	18	75	11.45	6.20	13.38	5.51	15.53	5.51	16.12	5.32
C	25	18	50	8.19	9.52	9.13	9.04	10.29	9.62	10.29	9.62
D*	20	18	25	4.08	14.28	4.56	14.38	4.70	14.41	4.70	14.41
A	35	7	100	11.02	2.98	12.68	2.74	13.09	3.02	14.01	3.03
B	30	7	75	7.68	4.32	9.03	4.09	10.71	4.04	11.12	3.94
C	25	7	50	5.71	5.83	6.26	5.64	6.81	5.82	6.81	5.82
D*	20	7	25	2.75	6.46	3.17	6.52	3.27	6.53	3.50	6.56

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

Rated data for certification programmes - standby power consumption

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

SYMBOLS

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

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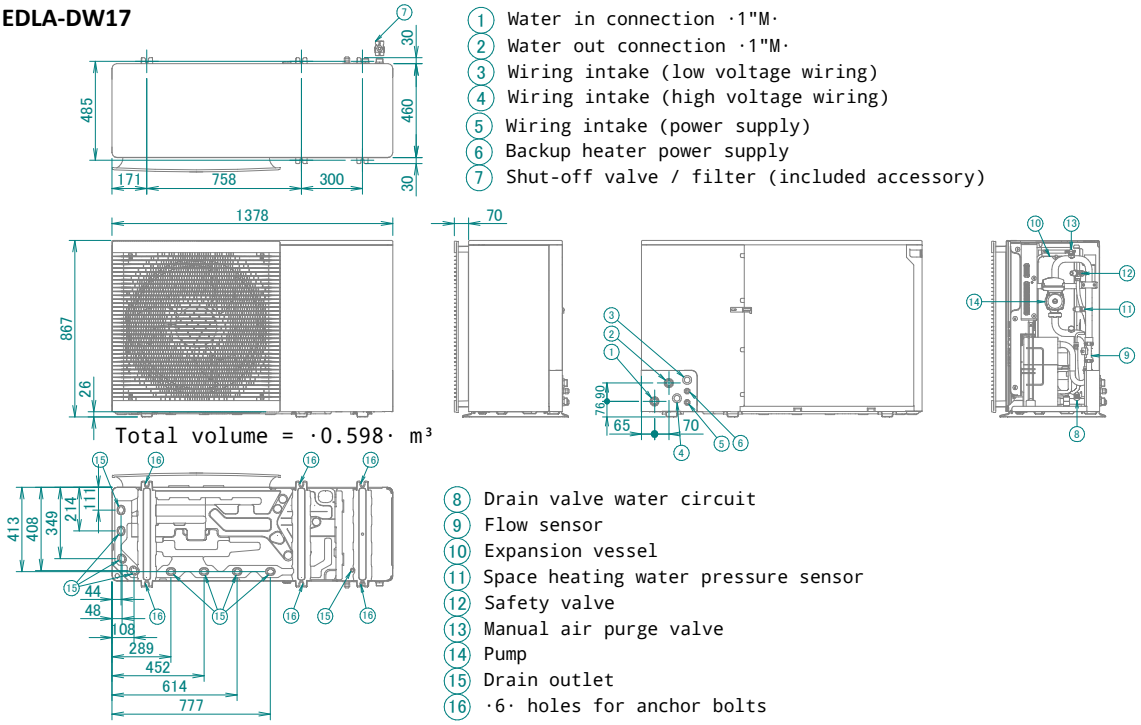
7 Dimensional drawings

7 - 1 Dimensional Drawings

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



1. Water in connection ·1"M·
2. Water out connection ·1"M·
3. Wiring intake (low voltage wiring)
4. Wiring intake (high voltage wiring)
5. Wiring intake (power supply)
6. Backup heater power supply
7. Shut-off valve / filter (included accessory)
8. Drain valve water circuit
9. Flow sensor
10. Expansion vessel
11. Space heating water pressure sensor
12. Safety valve
13. Manual air purge valve
14. Pump
15. Drain outlet
16. ·6· holes for anchor bolts

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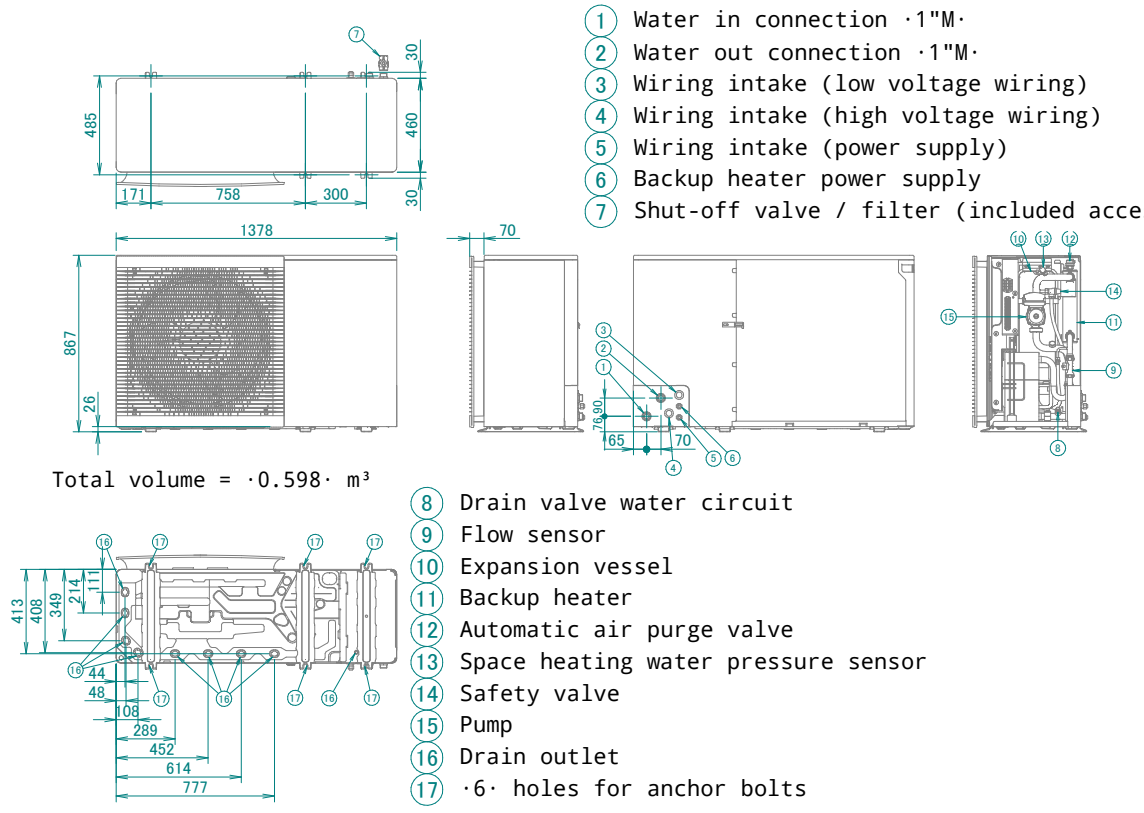
EBLA09-14D3V3 / EBLA09-14D3W1 / EDLA09-14D3V3 / EDLA09-14D3W1 / EBLA-D3V37 / EBLA-D3W17 / EDLA-D3V37 / EDLA-D3W17



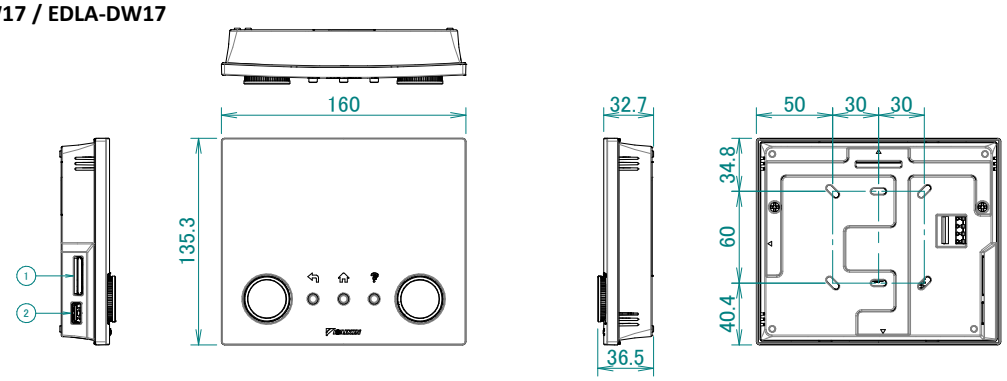
1. Water in connection ·1"M·
2. Water out connection ·1"M·
3. Wiring intake (low voltage wiring)
4. Wiring intake (high voltage wiring)
5. Wiring intake (power supply)
6. Backup heater power supply
7. Shut-off valve / filter (included accessory)
8. Drain valve water circuit
9. Flow sensor
10. Expansion vessel
11. Backup heater
12. Automatic air purge valve
13. Space heating water pressure sensor
14. Safety valve
15. Pump
16. Drain outlet
17. ·6· holes for anchor bolts

3D128950A

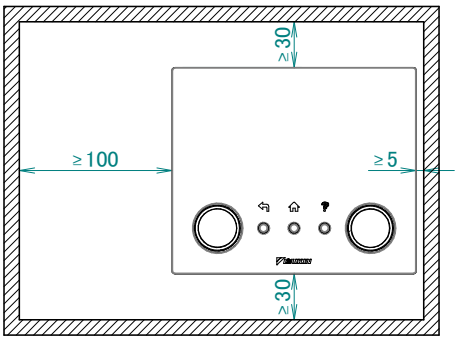
7 Dimensional drawings

7 - 1 Dimensional Drawings

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



Required installation space



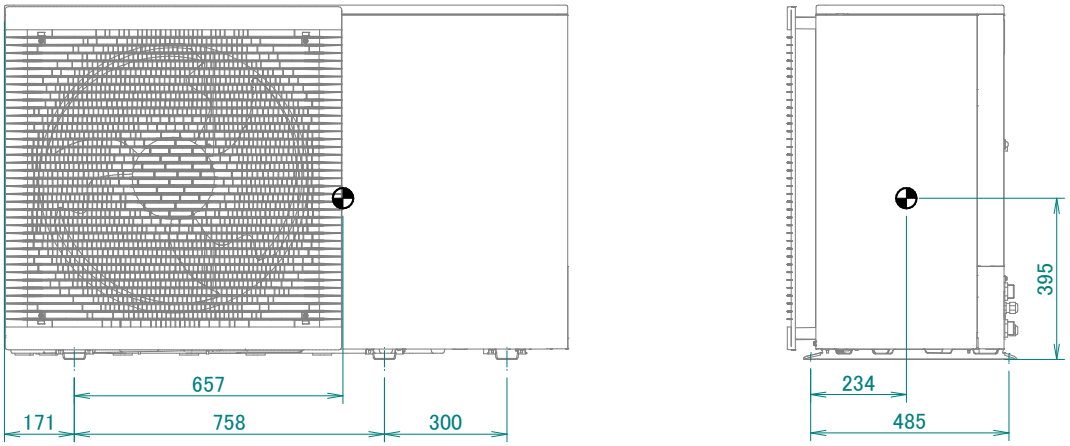
① USB Connector
② WLAN cartridge

3D132732

8 Centre of gravity

8 - 1 Centre of Gravity

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



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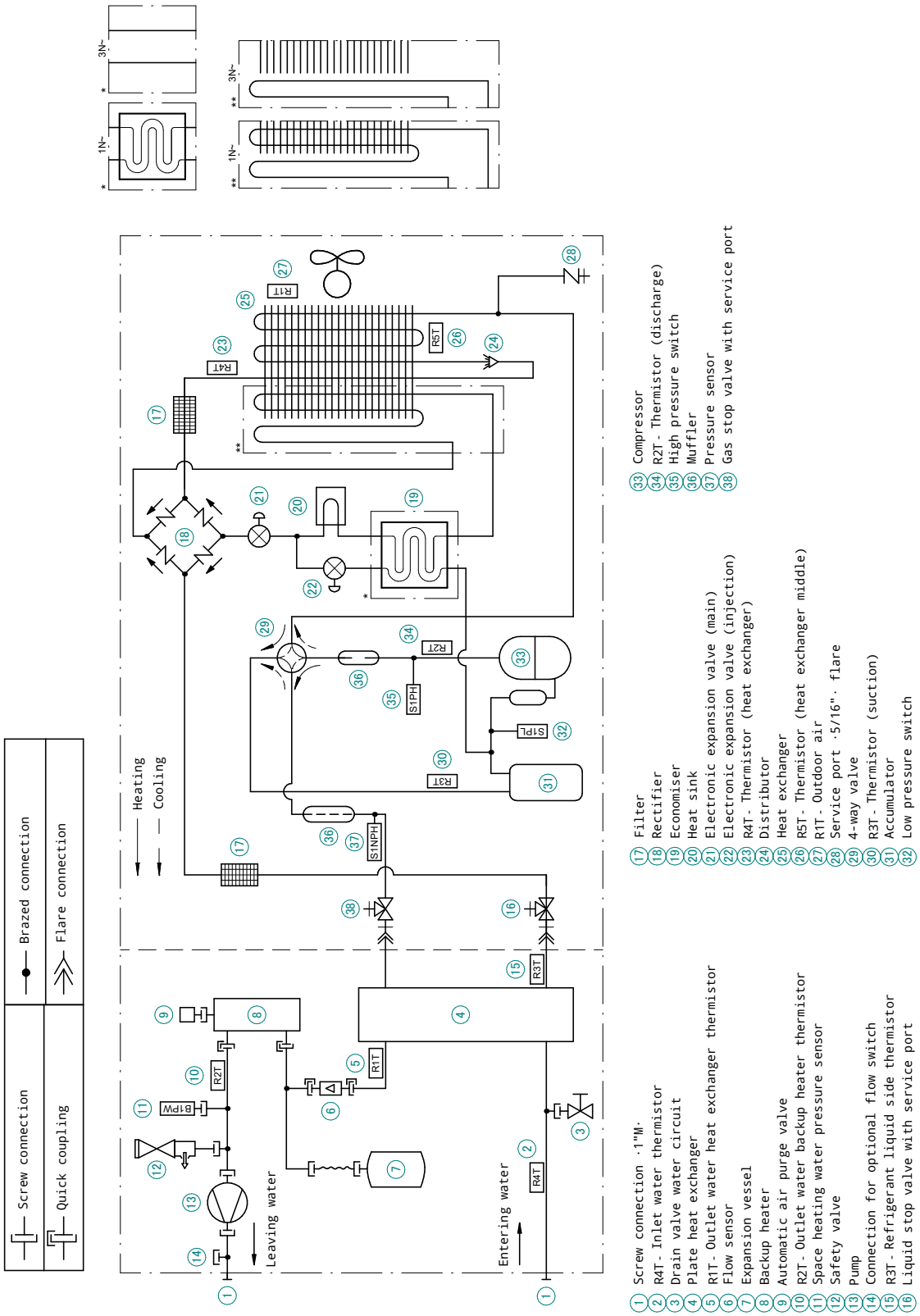
9 Piping diagrams

9 - 1 Piping Diagrams

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



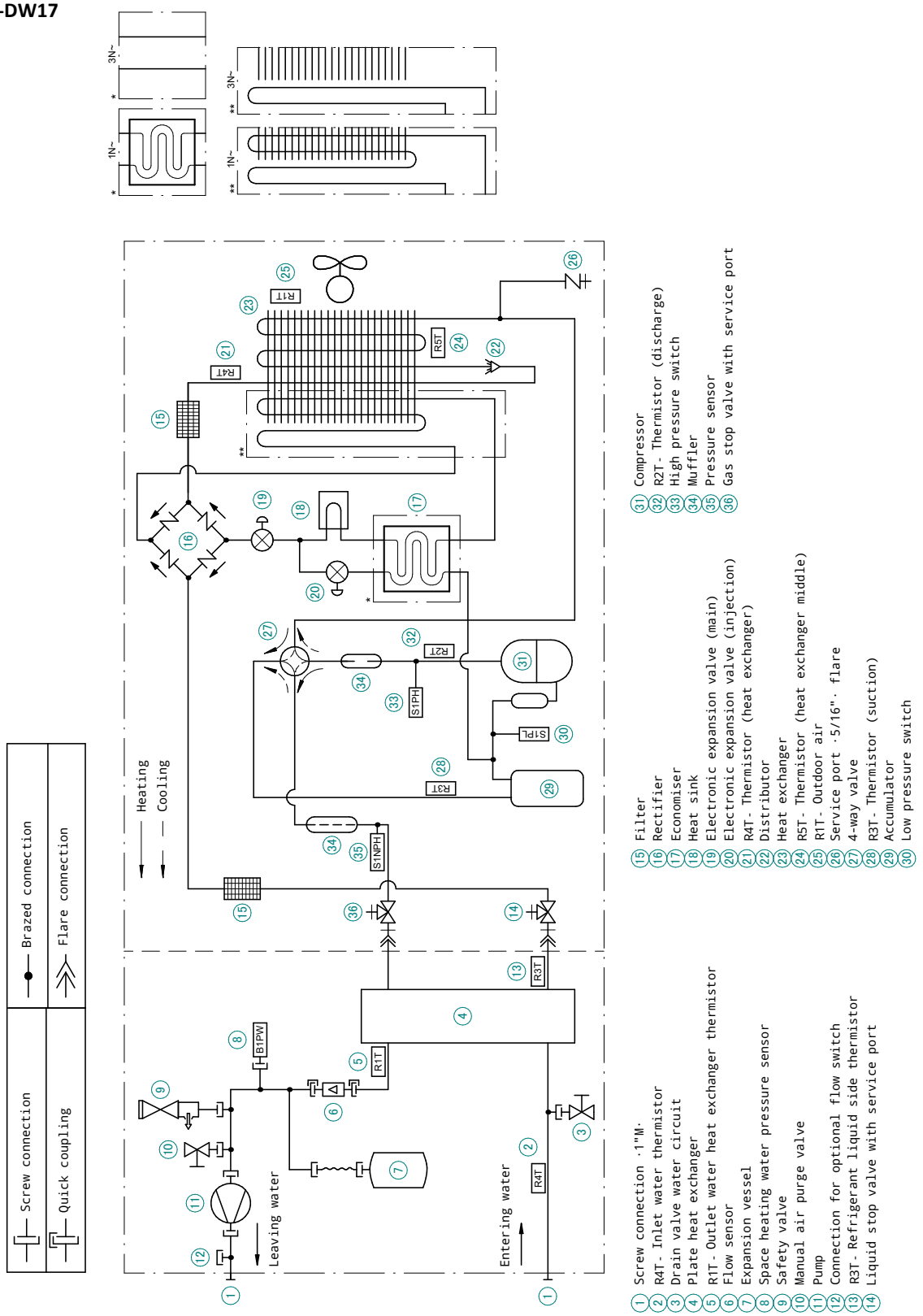
(1) Screw connection ·1"M·
(2) R4T- Inlet water thermistor
(3) Drain valve water circuit
(4) Plate heat exchanger
(5) R1T- Outlet water heat exchanger thermistor
(6) Flow sensor
(7) Expansion vessel
(8) Backup heater
(9) Automatic air purge valve
(10) R2T- Outlet water backup heater thermistor
(11) Space 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

3D128953A

9 Piping diagrams

9 - 1 Piping Diagrams

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



Screw connection ·1"M·
R4T- Inlet water thermistor
Drain valve water circuit
Plate heat exchanger
R1T- Outlet water heat exchanger thermistor
Flow sensor
Expansion vessel
Space heating water pressure sensor
Safety valve
Manual air purge valve
Pump
Connection for optional flow switch
R3T- Refrigerant liquid side thermistor
Liquid stop valve with service port

Filter
Rectifier
Economiser
Heat sink
Electronic expansion valve (main)
Electronic expansion valve (injection)
R4T- Thermistor (heat exchanger)
Distributor
Heat exchanger
R5T- Thermistor (heat exchanger middle)
R1T- Outdoor air
Service port ·5/16"· flare
4-way valve
R3T- Thermistor (suction)
Accumulator
Low pressure switch

Compressor
R2T- Thermistor (discharge)
High pressure switch
Muffler
Pressure sensor
Gas stop valve with service port

3D128954A

10 Wiring diagrams

10 - 1 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

(2) NOTES

X14M, X15M : Main terminal

: Earth wiring

15 : Wire number 15

: Field supply

(1) : Several wiring possibilities

: Option

: Wiring depending on model

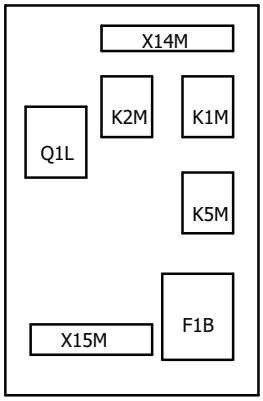
: Not mounted in switch box

: PCB

Optional backup heater configuration :
(only for EKLBUHCB6W1)

☐ 1N~, 230V, 3kW or 6kW
☐ 3N~, 400V, 6kW or 9kW

(3) BUH kit switch box



EKLBUHCB6W1

(4) Legend

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

#: field supply

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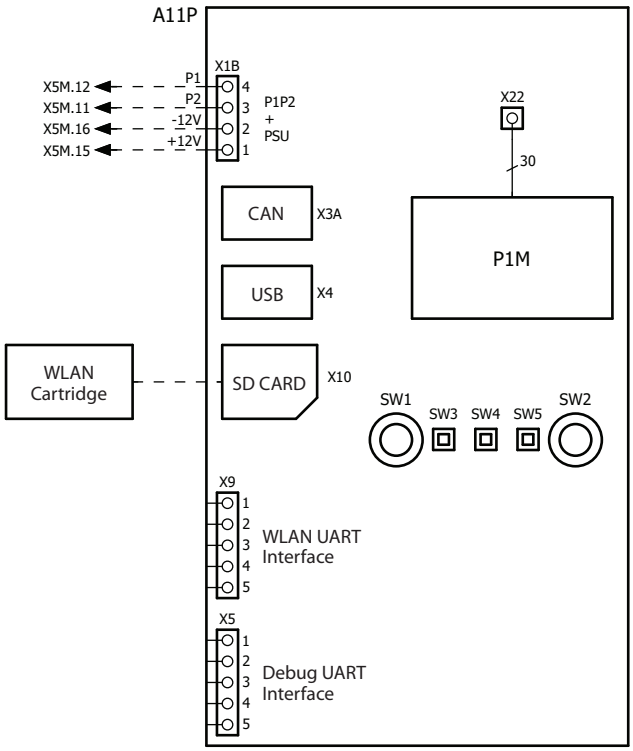
10 Wiring diagrams

10 - 2 Control Circuit, Inverter

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



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10 Wiring diagrams

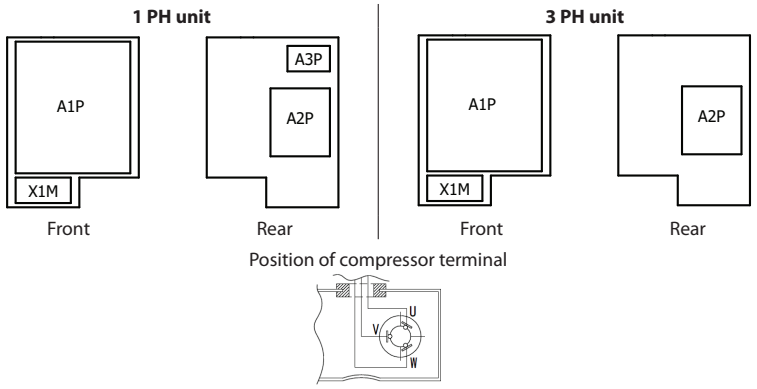
10 - 3 Compressor - Notes & Legend

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
: 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

Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
A3P		Printed circuit board (flash)
C* (A*P)		Capacitor
BS* (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
F1U, F3U~F4U (A2P)		Fuse T 6.3 A 250 V
F2U (A2P)		Fuse T 56 A 250 V
F6U (A1P)		Fuse T 5 A 250 V
H1~7P (A1P)		Indication light emitting diode (service monitor is orange)
HAP (A1P)		Light emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K10~13R (A1P)		Magnetic relay
K11M (A1P)		Magnetic relay (Main)
K14~15R (A2P)		Magnetic relay
L*R (A1P)		Reactor
M1C		Compressor motor
M1F		Fan motor
PS (A1P)		Switching power supply
Q1		Thermal overcurrent protector
Q1DI	#	Earth leakage circuit breaker (30mA)
R533~R807 (A*P)		Resistor
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (distribuiton pipe)
R5T		Thermistor (heat exchanger middle)
R11T (A1P)		Thermistor (fin)
RC (A2P)		Signal receiver circuit
S1NPH		Pressure sensor
S1PH		High pressure switch
S1PL		Low pressure switch
TC (A2P)		Signal transmission circuit
V*D (A1P)		Diode
V1R (A1P)		Power module
V2R (A1P)		Diode module
V*T (A1P)		IGBT
X1M		Terminal strip
X*A, X*Y (A*P)		Connector
Y1E, Y3E		Electronic expansion valve
Y1S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A*P)		Noise filter

3 PH unit

Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
C* (A1P)		Capacitor
BS* (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
F1U, F3U (A2P)		Fuse T 6.3 A 250 V
F4U, F5U (A2P)		Fuse T 30 A 250 V
F7U (A1P)		Fuse T 5 A 250 V
HAP (A1P)		Light emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K10~84R (A1P)		Magnetic relay
K*M (A1P)		Magnetic relay (Main)
L*R (A*P)		Reactor
M1C		Compressor motor
M1F		Fan motor
PS (A1P)		Switching power supply
Q1		Thermal overcurrent protector
Q1DI	#	Earth leakage circuit breaker (30mA)
R2~R807 (A1P)		Resistor
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (distribution pipe)
R5T		Thermistor (heat exchanger middle)
R11T (A1P)		Thermistor (fin)
RC (A1P)		Signal receiver circuit
S1NPH		Pressure sensor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG* (A1P)		7-segment display
TC (A1P)		Signal transmission circuit
V*D (A1P)		Diode
V1~2R (A1P)		Diode module
V3~5R (A1P)		Power module
X1M		Terminal strip
X*A, X*Y (A*P)		Connector
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

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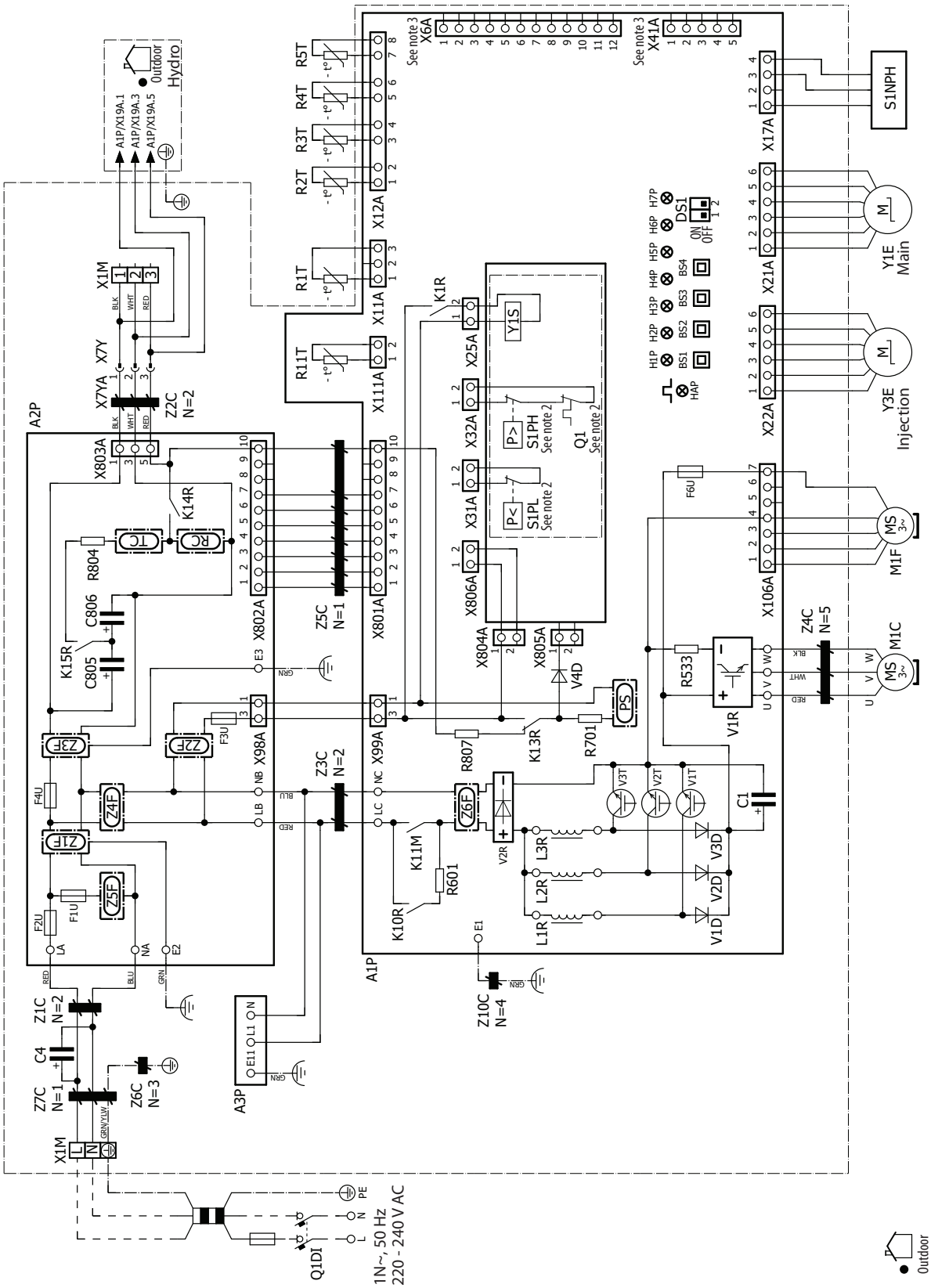
10 Wiring diagrams

10 - 4 Compressor - Single phase

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



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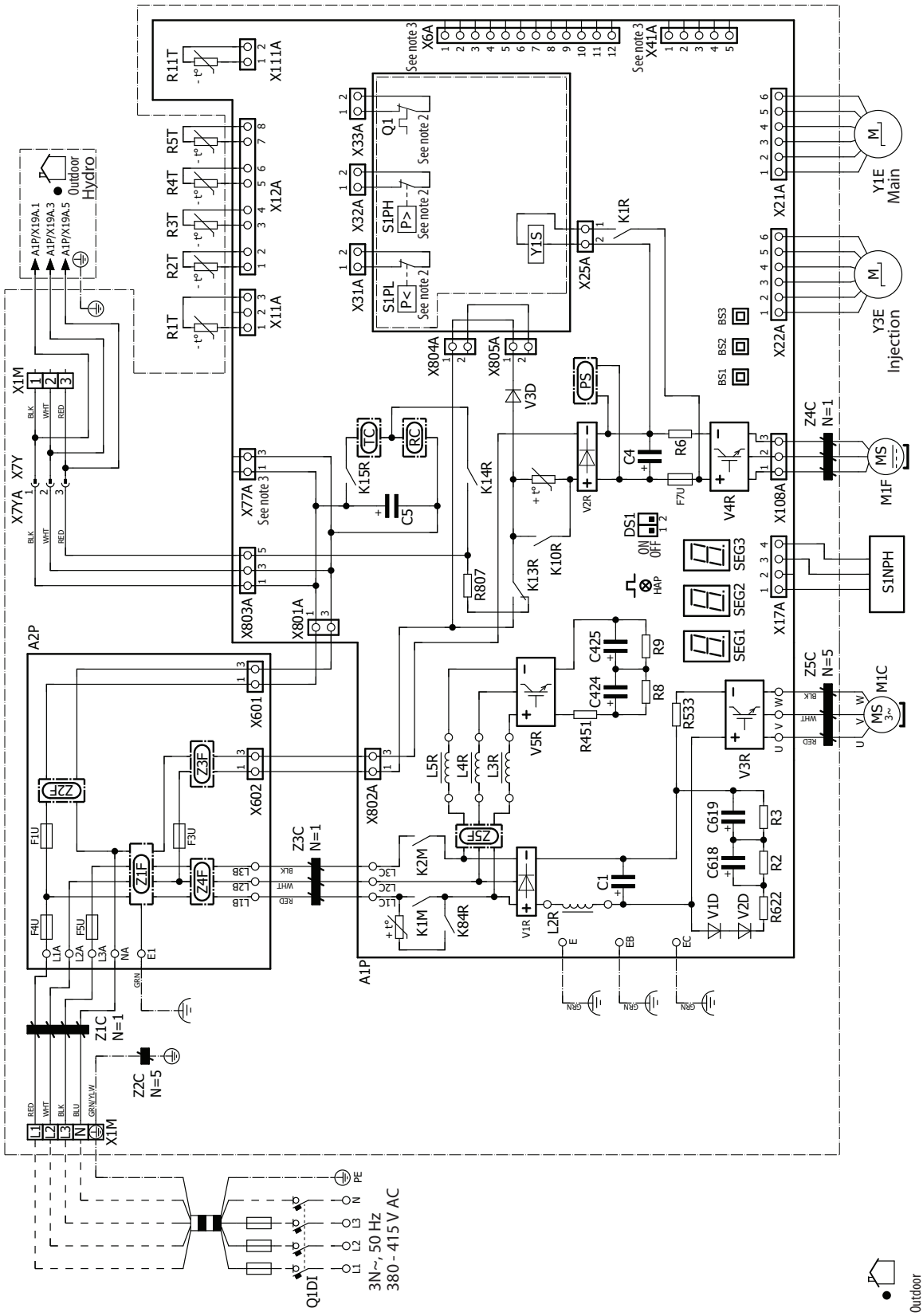
10 Wiring diagrams

10 - 5 Compressor - Three phase

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 - 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

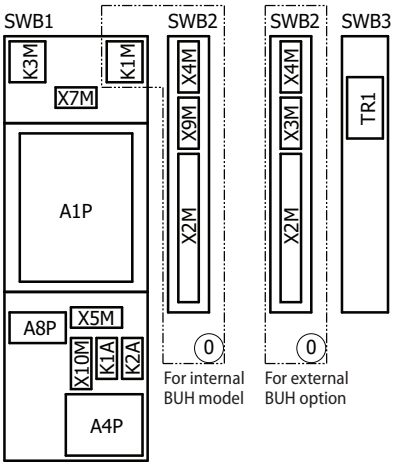
Backup heater power supply: ☐ 3V (1N~, 230V, 3kW)

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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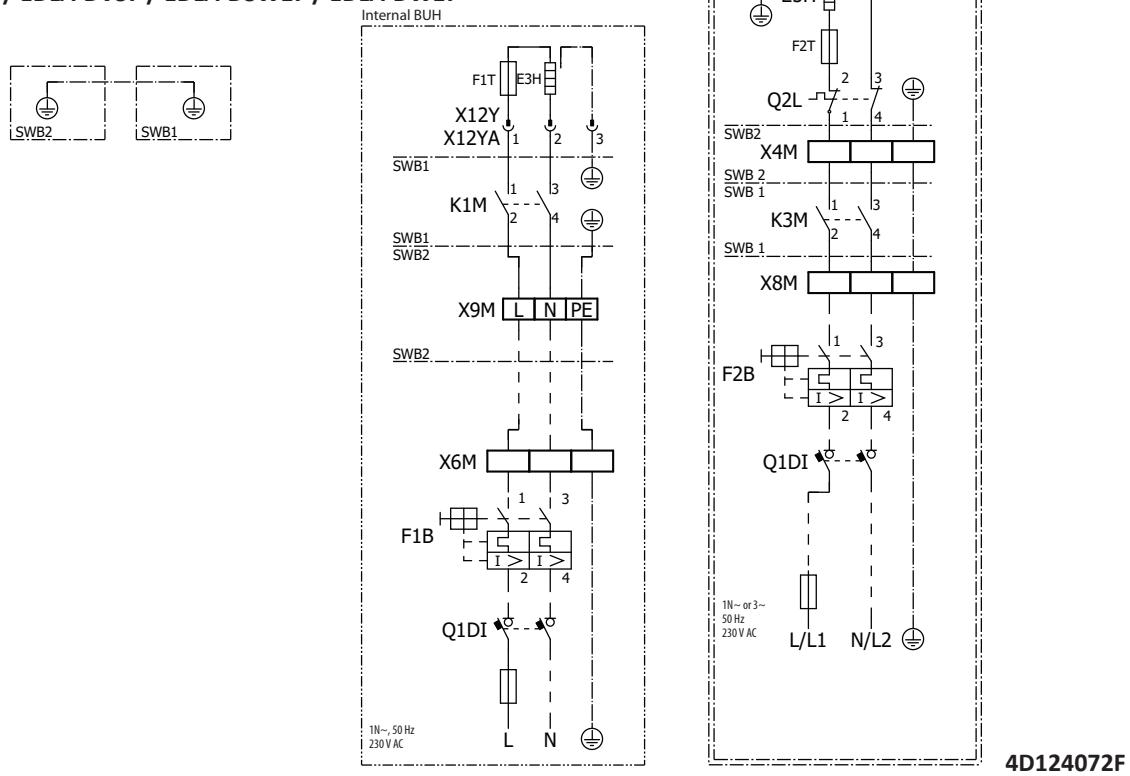
10 Wiring diagrams

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

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



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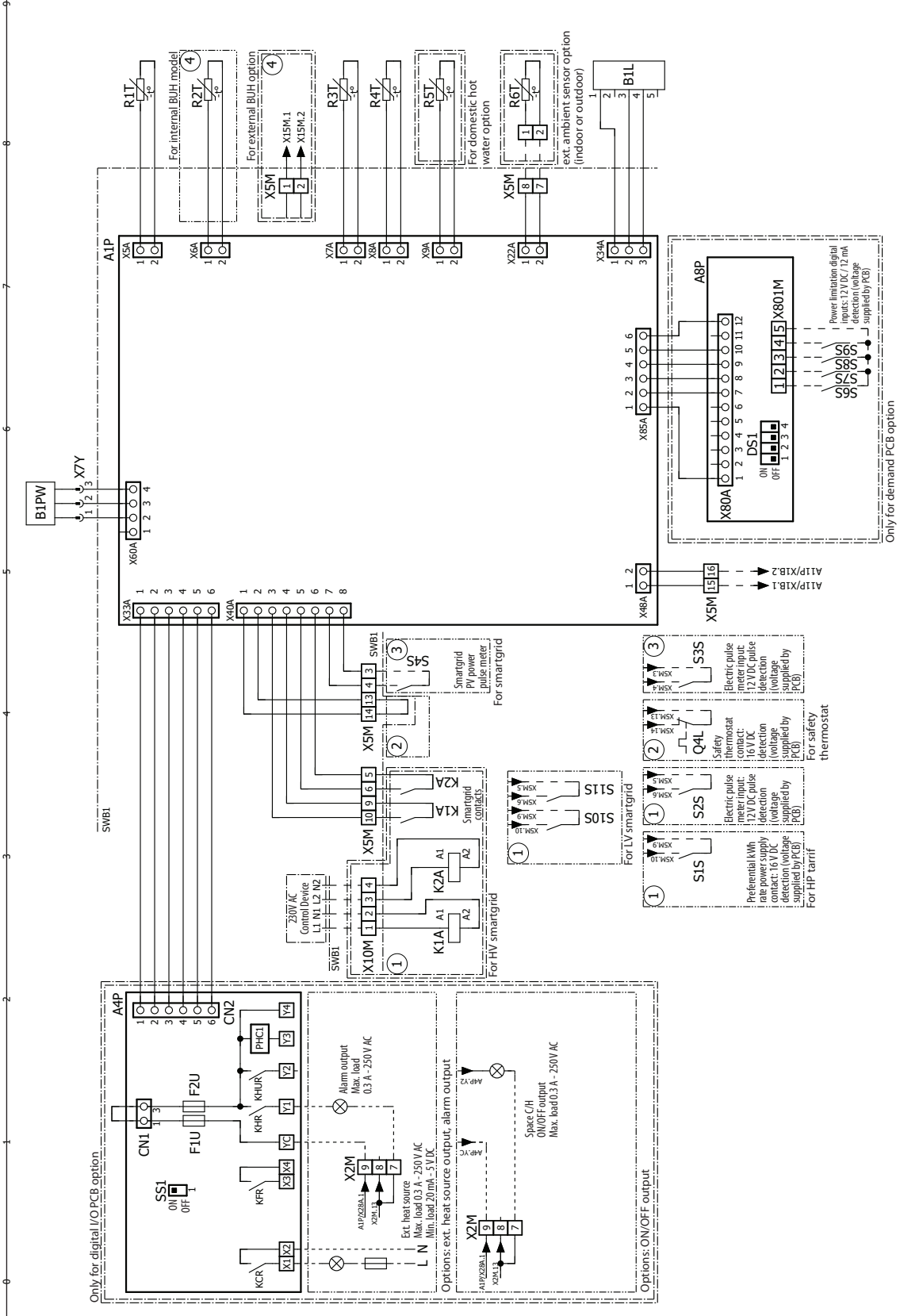
10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

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



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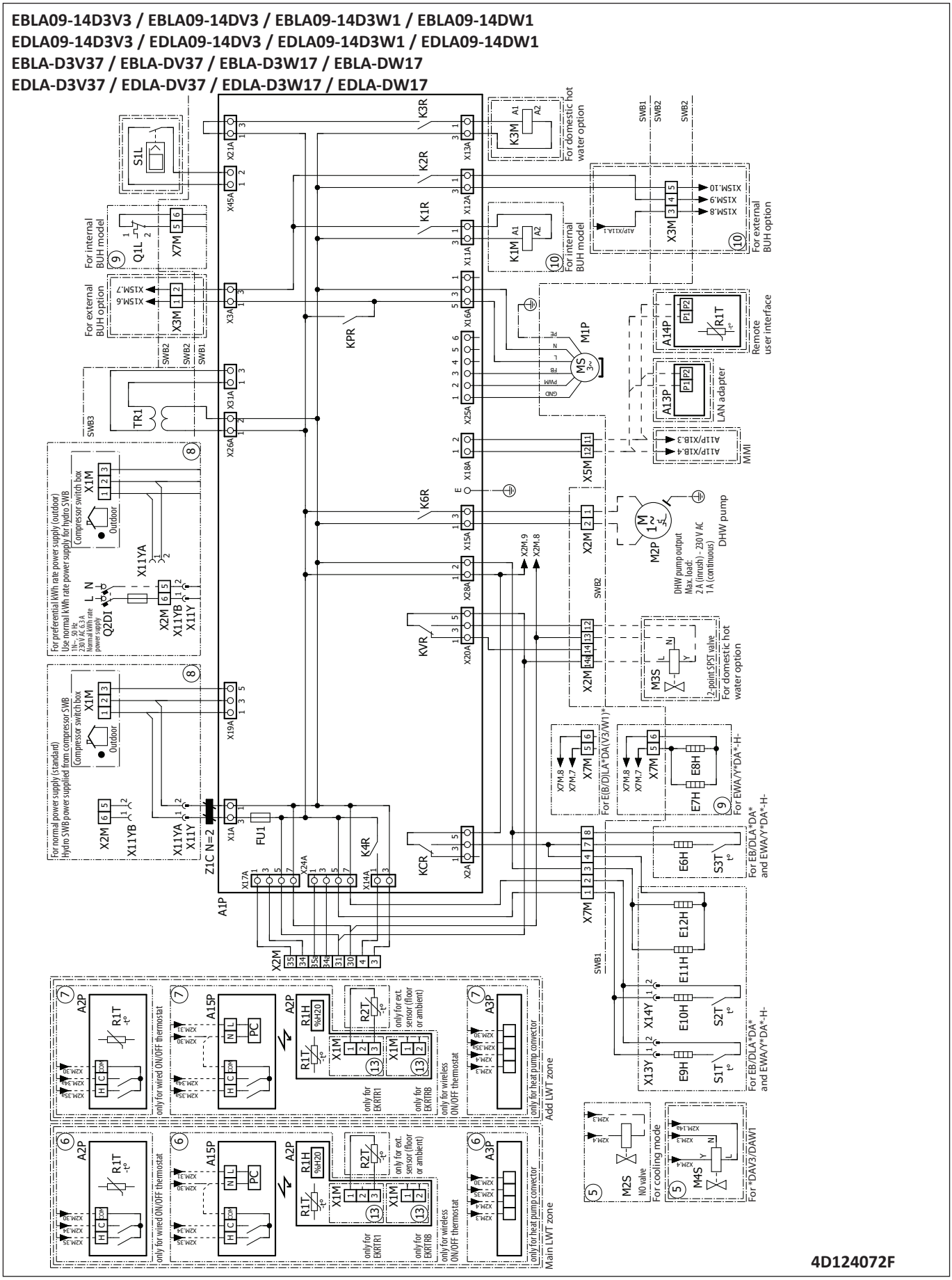
10 Wiring diagrams

10 - 8 Hydro Module - Control Circuit

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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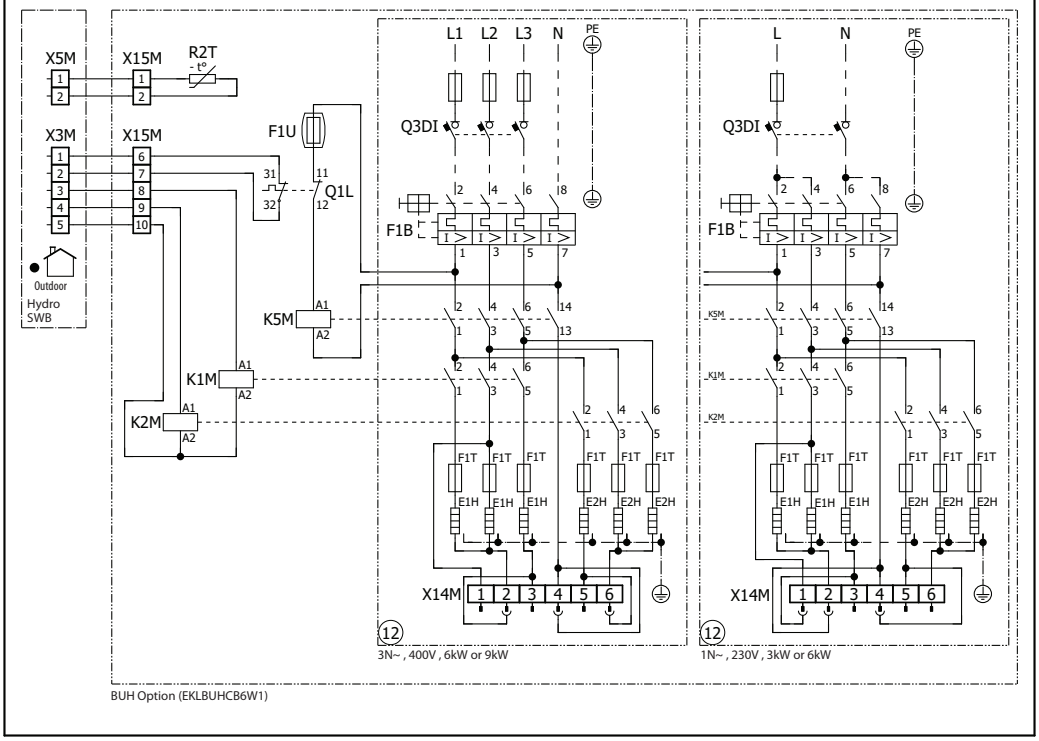
10 Wiring diagrams

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

(1) Connection diagram



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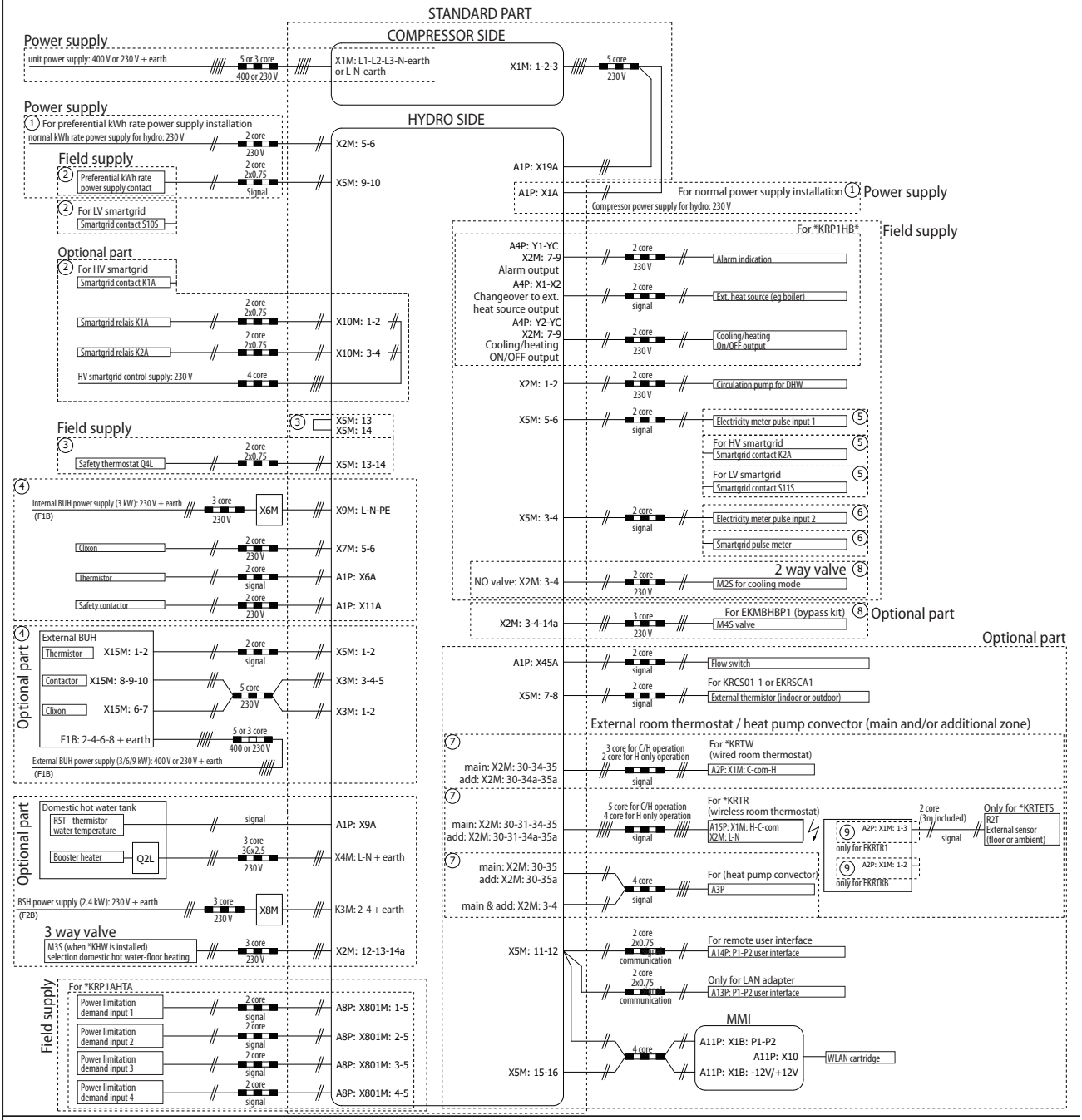
11 External connection diagrams

11 - 1 External Connection Diagrams

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



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

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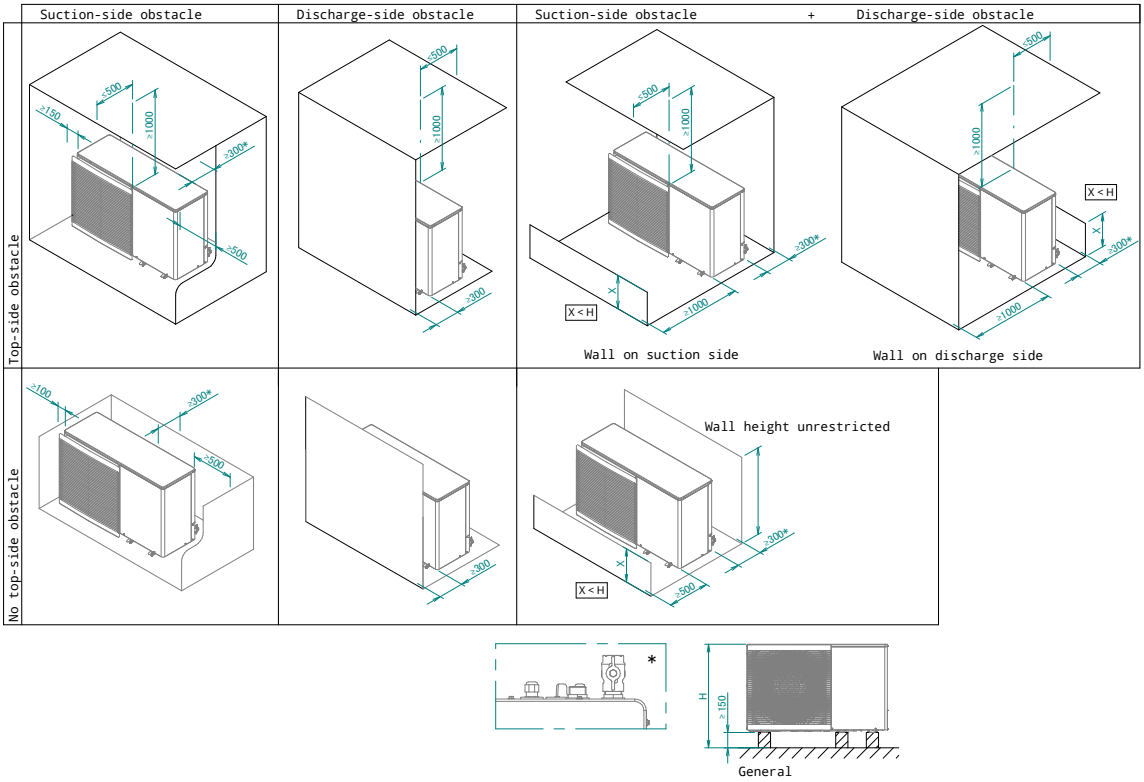
12 Installation

12 - 1 Installation Method

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

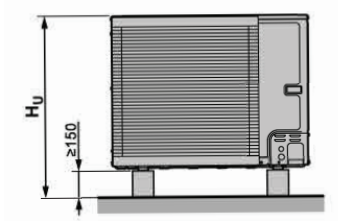


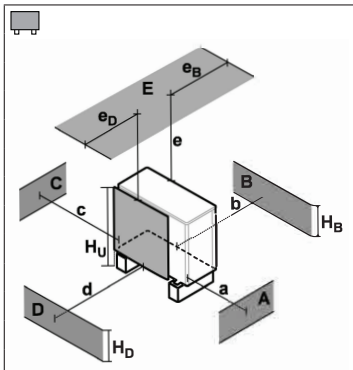
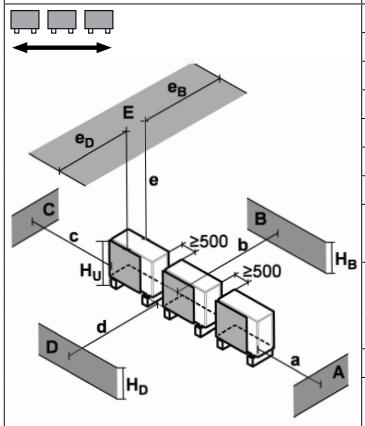
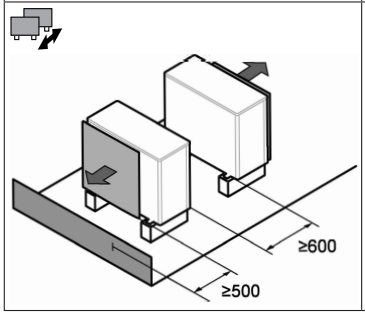
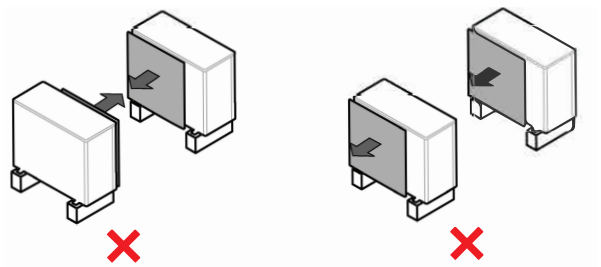
3D128957

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



A~E	$H_B H_D H_U$		(mm) a	b	c	d	e	eB	eD
	B	-		≥300					
	A, B, C	-	≥500	≥300	≥100				
	B, E	-		≥300			≥1000		≤500
	A, B, C, E	-	≥500	≥300	≥150		≥1000		≤500
	D	-				≥500			
	D, E	-				≥500	≥1000	≤500	
	A, C	-	≥500		≥100				
	B, D	(H_B or H_D) ≤ H_U		≥300		≥500			
		(H_B and H_D) > H_U	✕						
	B, D, E	(H_B or H_D) ≤ H_U $H_B > H_D$		≥300		≥1000	≥1000		≤500
		$H_B > H_D$		≥300		≥1000	≥1000	≥500	
		(H_B and H_D) > H_U	✕						
	A, C, D, E	-	≥500		≥150	≥500	≥1000	≤500	
	A, B, C, D, E	(H_B or H_D) ≤ H_U $H_B > H_D$	≥500	≥300	≥150	≥1000	≥1000		≤500
		$H_B > H_D$	≥500	≥300	≥150	≥1000	≥1000	≤500	
		(H_B and H_D) > H_U	✕						
	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
		$H_B > H_D$		≥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
		$H_B > H_D$	≥500	≥300	≥500	≥1000	≥1000	≤500	
		(H_B and H_D) > H_U	✕						
									

3D142508

12 Installation

12 - 2 Installation Method in cascade applications

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

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

Cascading outdoor units.

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

Legend	Symbols
A, C	Obstacles (walls/baffle plates)
B	Obstacles on the suction side
D	Obstacles on the discharge side
E	Obstacle (roof)
a, b, c, d, e	Minimum service space between the unit and obstacles A, B, C, D and E
e_B	Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B
e_D	Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D
Hu	Height of the unit
Hb,Hd	Height of obstacles B and D
✕	Not allowed


(1)

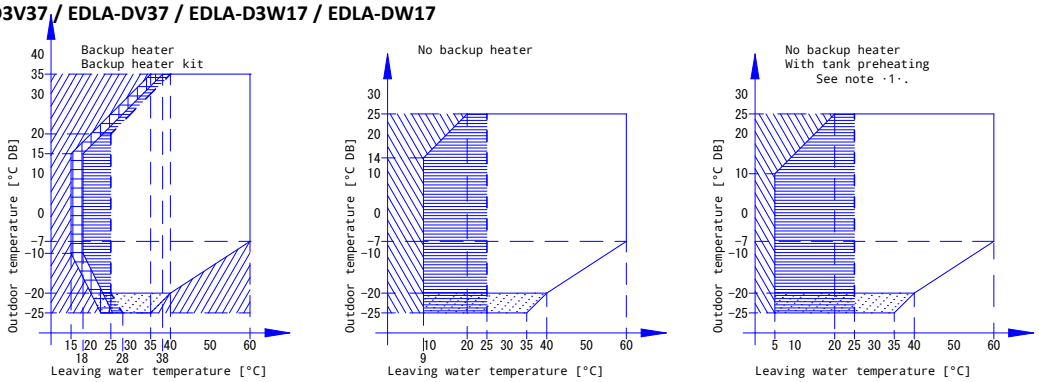

(2)

3D142508

13 Operation range

13 - 1 Operation Range

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



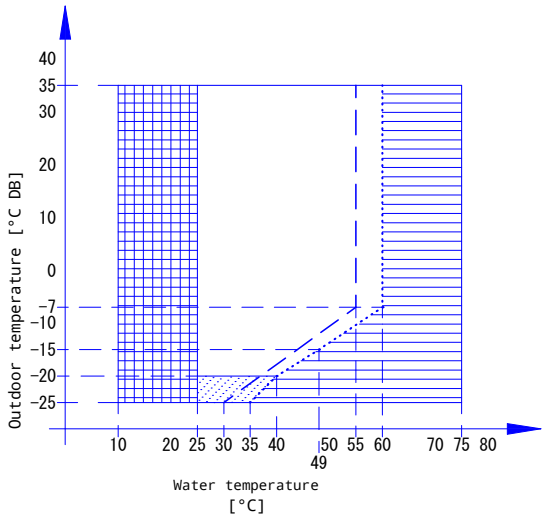
Legend

- 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)

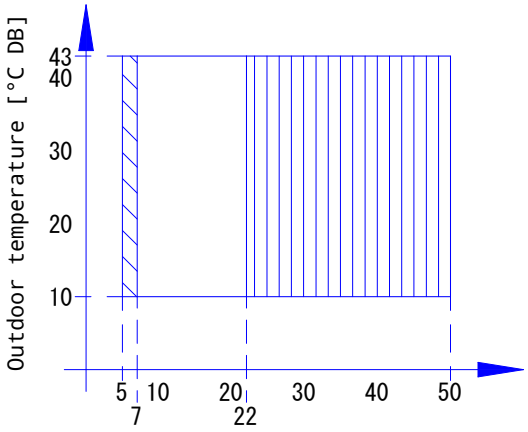
Notes
1. In restricted power supply mode (·EKHW*· only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as ·EKHWS*·
   Coil surface >·1.05·m² and <·3.7·m²
   Tank thermistor and booster heater above heat pump coil.
3. If negative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

3D120989

13 Operation range

13 - 1 Operation Range

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



Legend

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

Pull-down area

Notes

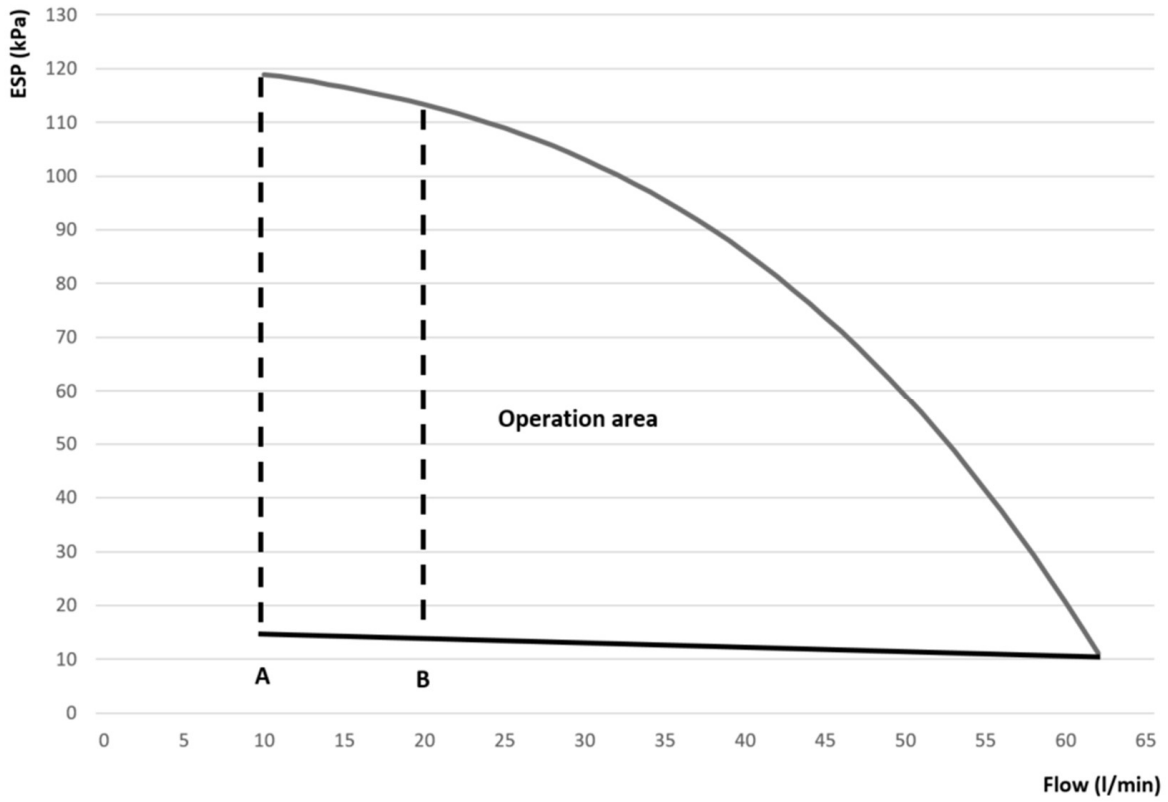
1. For more information, refer to the installation manual.
   If negative ambient temperatures are expected, both in operation or at standst ill, take adequate countermeasures against freezing.

3D130999

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

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



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

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

Notes

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

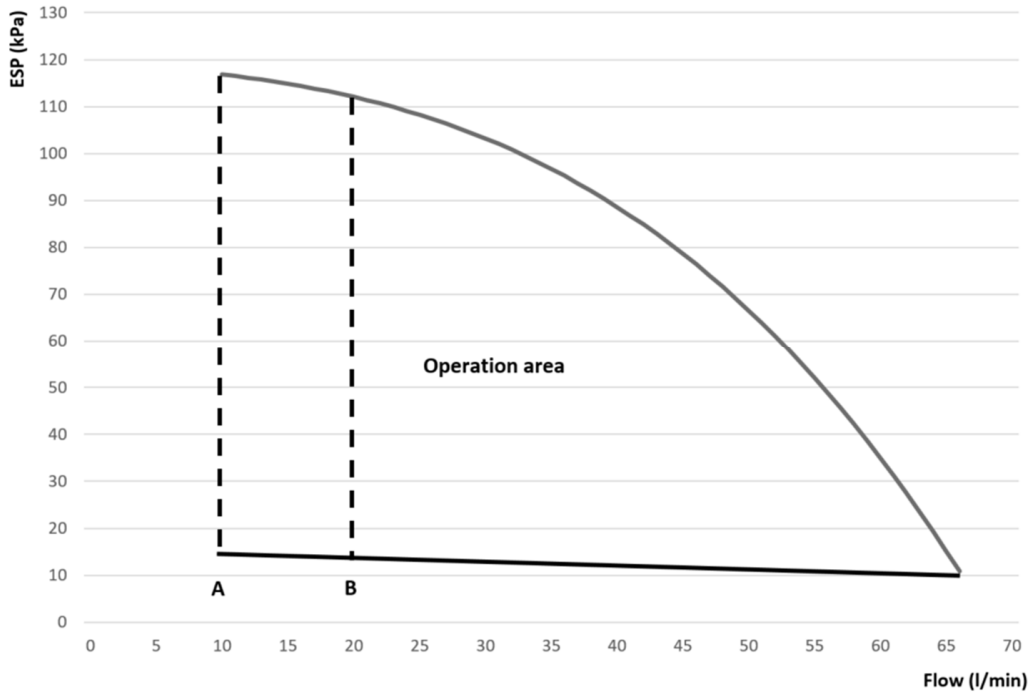
   See also the minimum and maximum allowed water flow range in the technical specifications.

4D128961

14 Hydraulic performance

14 - 1 Static Pressure Drop Unit

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



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

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

Notes

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

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

   See dashed lines

2. The higher operation range limit is only valid if the flow medium is water. If glycol is added to the system, the limit is lower.

3. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.

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

4D129632

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

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