

Daikin Altherma low
temperature monobloc
Technical Data
EBLA04-08EV3 /
EBLA04-08E3V3 /
EDLA04-08EV3 /
EDLA04-08E3V3



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1 Features

1 - 1 EBLA04-08EV3

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

- › Monobloc all-in-one concept including hydraulic parts
- › WLAN cartridge included
- › 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

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1 Features

1 - 2 EDLA04-08EV3

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1 Features

1 - 3 EBLA04-08E3V3

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1 Features

1 - 4 EDLA04-08E3V3

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2 Specifications

2 - 1 Specifications

Technical specifications					EBLA04EV3	EBLA06EV3	EBLA08EV3
Heating capacity	Nom.			kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)
Cooling capacity	Nom.			kW	4.86 (1) / 4.52 (2)	5.83 (1) / 5.09 (2)	6.18 (1) / 5.44 (2)
Power input	Cooling	Nom.		kW	0.820 (1) / 1.36 (2)	1.08 (1) / 1.55 (2)	1.19 (1) / 1.73 (2)
	Heating	Nom.		kW	0.840 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
EER					5.91 (1) / 3.32 (2)	5.40 (1) / 3.28 (2)	5.19 (1) / 3.14 (2)
Casing	Colour				Ivory white		
	Material				Zinc coated low carbon steel		
Dimensions	Unit	Height		mm	770		
		Width		mm	1,250		
		Depth		mm	362		
	Packed unit	Height		mm	920		
		Width		mm	1,350		
		Depth		mm	500		
Weight	Unit			kg	88		
	Packed unit			kg	95		
Packing	Material				Carton / EPS / Wood (pallet)		
Heat exchanger	Length			mm	920		
	Rows	Quantity			2		
	Fin pitch			mm	1.4		
	Face area			m ²	0.658		
	Stages	Quantity			32		
	Tube type				ø7 Hi-XD		
	Fin	Type			Waffle Hydrophilic Blue Fin		
Fan		Treatment			Hydrophilic		
	Type				Propeller fan		
	Quantity				1		
Fan motor	Discharge direction				Horizontal		
	Quantity				1		
	Model				KFD-325-77-10A		
Compressor	Speed	Steps			10		
		Heating	Nom.	rpm	620	680	740
	Output			W	77		
PED	Quantity				1		
	Model				2YC71EXD#C		
	Type				Hermetically sealed swing compressor		
Operation range	Category				Category II		
	Most critical part	Name			Compressor		
		Ps*V		Bar*l	110		
Sound power level	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	25 (3)		
		Water side	Min.	°C	9 (3)		
			Max.	°C	65 (3)		
	Cooling	Ambient	Min.	°CDB	10 (3)		
			Max.	°CDB	43		
		Water side	Min.	°C	5 (3)		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-27		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (3)		
Sound pressure level	Heating	Nom.		dBA	58	60	62
	Cooling	Nom.		dBA	61	62	62
Refrigerant	Heating	Nom.		dBA	44	47	49
	Cooling	Nom.		dBA	48	49	50
Refrigerant oil	Type				R-32		
	GWP				675		
	Charge			kg	1.35		
	Control				Expansion valve		
	Circuits	Quantity			1		
Defrost method	Type				FW68DA		
	Charged volume			l	1.1		
Defrost control					Reversed cycle		
Capacity control	Method				Sensor for outdoor heat exchanger temperature		
Safety devices	Item	01			Inverter controlled		
Pump					High pressure switch		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Power input			W	75		

2 Specifications

2 - 1 Specifications

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Technical specifications					EBLA04EV3	EBLA06EV3	EBLA08EV3	
Water side Heat exchanger	Type				Plate heat exchanger			
	Quantity				1			
	Water volume l				1.01			
	Water flow rate	Heating	Nom.	l/min	12.3 (1) / 13.2 (2)	17.2 (1) / 16.9 (2)	21.5 (1) / 22.4 (2)	
Water side Heat exchanger	Water flow rate	Cooling	Nom.	l/min	13.9 (1) / 13.0 (2)	16.7 (1) / 14.6 (2)	17.7 (1) / 15.6 (2)	
	Insulation material				Kaiflex			
	Heater W				50			
Expansion vessel	Volume l				7			
	Max. water pressure bar				3			
	Pre pressure bar				1			
	Heater W				50			
Water circuit	inch in				G 1" (male)			
	Piping length	Max.	OU - Tank	m	10			
	Level difference	Max.		m	5			
	Safety valve bar				3			
	Drain valve / fill valve				No			
	Air purge valve				Yes			
	General	Supplier/ Manufacturer details	Name or trademark			Daikin Europe N.V.		
Product description		Air-to-water heat pump				Yes		
		Brine-to-water heat pump				No		
		Heat pump combination heater				No		
		Low-temperature heat pump				No		
		Supplementary heater integrated				No		
		Water-to-water heat pump				No		
LW(A) Sound power level (according to EN14825) dBA				58	60	62		
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor) m³/h			2,280	2,520	2,770	
	Other	Capacity control				Inverter		
		Pck (Crankcase heater mode) kW				0		
		Poff (Off mode) kW				0.01		
		Psb (Standby mode) kW				0.01		
		Pto (Thermostat off) kW				0.01		
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,769	4,405	4,939	
			ηs (Seasonal space heating efficiency)	%	129	128	131	
			Prated at -10°C	kW	6	7	8	
			Qhe Annual energy consumption (GCV)	Gj	14	16	18	
			SCOP		3.29	3.28	3.35	
			Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1			
			COPd		1.97	1.98	1.96	
			Pdh	kW	5.3	5.9	6.9	

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA04EV3	EBLA06EV3	EBLA08EV3
Space heating	Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	PERd	%	78.8	79.2	78.4
			Cdh (Degradation heating)			1	
		B Condition (2°CDB/-1°CWB)	COPd		3.23	3.16	3.2
			Pdh	kW	3.3	3.9	4.4
			PERd	%	129.2	126.4	128
			Cdh (Degradation heating)			1	
		C Condition (7°CDB/-6°CWB)	COPd		4.4	4.49	4.64
			Pdh	kW	3		3.3
			PERd	%	176	179.6	185.6
			Cdh (Degradation heating)			1	
		D Condition (12°CDB/-11°CWB)	COPd		6.1		6.22
			Pdh	kW	3.3		4.1
			PERd	%	244		248.8
			COPd		1.37	1.53	1.64
		Tol (temperature operating limit)	Pdh	kW	3.99	5.36	7.05
			PERd	%	54.8	61.2	65.6
			TOL	°C		-10	
			WTOL	°C		55	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	2.01	1.64	0.95
			Tbiv				
		(bivalent temperature)	COPd		1.97	2.12	1.9
			Pdh	kW	5.3	6.1	7.5
			PERd	%	78.8	84.8	76
			Tbiv	°C	-7	-6	-8
Cold climate water outlet 55°C	General	Annual energy consumption		kWh	4,446	5,278	6,864
			ηs (Seasonal space heating efficiency)	%	108	109	112
		Prated at -22°C		kW	5	6	8
			Qhe Annual energy consumption (GCV)	Gj	16	19	25
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1	
			COPd		2.34	2.32	
		B Condition (2°CDB/-1°CWB)	Pdh	kW	3	3.6	4.8
			PERd	%	93.6	92.8	
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1	
			COPd		3.32	3.38	3.56
			Pdh	kW	2.9	2.4	3
			PERd	%	132.8	135.2	142.4
			Cdh (Degradation heating)			1	
			COPd		4.78	4.73	5.02

2 Specifications

2 - 1 Specifications

Technical specifications				EBLA04EV3		EBLA06EV3		EBLA08EV3		
 Space heating	Cold climate water outlet 55°C	C Condition (7°CDB/ B/6°CWB)	Pdh	kW	3.1		2.5		2.9	
			PERd	%	191.2		189.2		200.8	
		D Condition (12°CDB/ B/11°CWB)	COPd		6.26		6.58		6.61	
			Pdh	kW	3.3		2.5		3	
		Tol (tem- perature operating limit)	PERd	%	250.4		263.2		264.4	
			COPd		1.43		1.47		1.46	
			Pdh	kW	4.1		5.1		6.1	
			PERd	%	57.2		58.8		58.4	
			TOL	°C			-18			
			WTOL	°C			55			
		G Condition (-15°CDB/-)	COPd		1.58		1.62		1.6	
			Pdh	kW	4.1		4.9		6.3	
			PERd	%	63.2		64.8		64	
			Tbiv (bivalent tempera- ture)	COPd		1.52		1.55		1.6
		Pdh		kW	4.2		5.1		6.3	
			PERd	%	60.8		62		64	
			Tbiv	°C			-16		-15	
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	5		6		8	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	1,616		1,813		2,624	
			ηs (Seasonal space heating efficiency)	%	152		162			
Prated at 2°C			kW	4.7		5.6		8.1		
Qhe Annual energy consumption (GCV)			Gj	6		7		9		
B Condition (2°CDB- B/1°CWB)		Cdh (Degradation heating)				1				
		COPd		2.11		2.15		2.09		
		Pdh	kW	4.7		5.6		6.8		
		PERd	%	84.4		86		83.6		
C Condition (7°CDB- B/6°CWB)		Cdh (Degradation heating)				1				
		COPd		3.28		3.45		3.42		
		Pdh	kW	3		3.6		5.3		
		PERd	%	131.2		138		136.8		
D Condition (12°CDB- B/11°CWB)		Cdh (Degradation heating)				1				
		COPd		5.13		5.48		5.52		
		Pdh	kW	3.1		2.3		2.8		
		PERd	%	205.2		219.2		220.8		
Tbiv (bivalent temperature)		COPd		2.11		2.15		2.66		
		Pdh	kW	4.7		5.6		6.9		
	PERd	%	84.4		86		106.4			

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA04EV3	EBLA06EV3	EBLA08EV3
Space heating Warm climate water outlet 55°C Average climate water outlet 35°C Cold climate water outlet 35°C	Tbiv	Tbiv	°C		2		4
	(bivalent temperature)						
	General	Annual energy consumption	kWh		2,729	3,196	3,588
		ηs (Seasonal space heating efficiency)	%		179	178	181
		Prated at -10°C	kW		6	7	8
		Qhe Annual energy consumption (GCV)	Gj		10	12	13
		SCOP			4.54	4.52	4.61
		Seasonal space heating eff. class				A+++	
	A Condition (-7°CDB/-8°CWB)	COPd			2.9	2.86	2.77
		Pdh	kW		5.5	6	7
		PERd	%		116	114.4	110.8
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1	
		COPd			4.33	4.25	4.35
		Pdh	kW		3.3	3.9	4.2
		PERd	%		173.2	170	174
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1	
		COPd			6.19	6.3	6.49
		Pdh	kW		3.2		3.3
		PERd	%		247.6	252	259.6
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1	
		COPd			7.78		8.52
		Pdh	kW		3.3		3.9
		PERd	%		311.2		340.8
	Tol (temperature operating limit)	COPd			2.56	2.49	2.41
		Pdh	kW		5.22	6.01	6.93
		PERd	%		102.4	99.6	96.4
		TOL	°C			-10	
		WTOL	°C			35	
	Tbiv (bivalent temperature)	COPd			2.9	3.07	2.66
		Pdh	kW		5.5	6.1	7.5
		PERd	%		116	122.8	106.4
		Tbiv	°C		-7	-6	-8
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0.78	0.99	1.07
	General	Annual energy consumption	kWh		3,208	3,727	5,012
		ηs (Seasonal space heating efficiency)	%		151	156	154
		Prated at -22°C	kW		5	6	8
		Qhe Annual energy consumption (GCV)	Gj		11.5	13.4	18
	A Condition (-7°CDB/-8°CWB)	COPd			3.37	3.4	3.41

2 Specifications

2 - 1 Specifications

2

Technical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3
Space heating	Cold climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh kW	3	3.6	4.8
			PERd %	134.8	136	136.4
			Cdh (Degradation heating)		1	
			COPd	4.5	4.76	4.66
		B Condition (2°CDB/-1°CWB)	Pdh kW	2.9	2.2	3.2
			PERd %	180	190.4	186.4
			Cdh (Degradation heating)		1	
			COPd	6.46	6.32	6.69
		C Condition (7°CDB/-6°CWB)	Pdh kW	3.3	2.8	3.2
			PERd %	258.4	252.8	267.6
			Cdh (Degradation heating)		1	
			COPd	8.05	8.04	8.68
		D Condition (12°CDB/-11°CWB)	Pdh kW	3.6	2.7	3.3
			PERd %	322	321.6	347.2
			Cdh (Degradation heating)		1	
			COPd	1.76	1.85	1.82
		Tol (temperature operating limit)	Pdh kW	4.3	5.2	6.2
			PERd %	70.4	74	72.8
			TOL °C		-20	
			WTOL °C		35	
		G Condition (-15°CDB/-)	COPd	2.2	2.25	2.2
			Pdh kW	4.1	4.9	6.5
			PERd %	88	90	88
		Tbiv (bivalent temperature)	COPd	1.91	2.07	2.2
			Pdh kW	4.5	5.2	6.5
			PERd %	76.4	82.8	88
			Tbiv °C	-18	-17	-15
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C) kW	5	6	8
Space heating	Warm climate water outlet 35°C	General	Annual energy consumption kWh	1,095	1,232	1,393
			ns (Seasonal space heating efficiency) %	251	257	266
			Prated at 2°C kW	5.2	6	7
			Qhe Annual energy consumption (GCV) GJ	4		5
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1	
			COPd	3.68	3.5	3.28
			Pdh kW	5.2	6	7
			PERd %	147.2	140	131.2
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1	
			COPd	5.79	5.92	5.95
			Pdh kW	3.3	3.9	4.5
			PERd %	231.6	236.8	238
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)		1	
			COPd	7.78	8	8.57
			Pdh kW	3.5	2.7	3.3
			PERd %	311.2	320	342.8
		Tbiv (bivalent temperature)	COPd	3.68	3.5	3.28
			Pdh kW	5.2	6	7
			PERd %	147.2	140	131.2
			Tbiv °C		2	

Electrical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3
Compressor component	Main power supply	Phase			3N~	
		Voltage	V		220	
Power supply	Name	Phase			V3	
		Frequency	Hz		1~	
		Voltage	V		50	
					230 +/-10%	
Current	Maximum running current	Heating	A	19.9		24
		Recommended fuses	A	20		25

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |
(3)For more details, see operation range drawing

Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Heating capacity	Nom.	kW		4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)

2 Specifications

2 - 1 Specifications

Technical specifications					EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Cooling capacity	Nom.			kW	4.86 (1) / 4.52 (2)	5.83 (1) / 5.09 (2)	6.18 (1) / 5.44 (2)
Heater capacity	Step1			kW		3	
Power input	Cooling	Nom.		kW	0.820 (1) / 1.36 (2)	1.08 (1) / 1.55 (2)	1.19 (1) / 1.73 (2)
	Heating	Nom.		kW	0.840 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)
COP					5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
EER					5.91 (1) / 3.32 (2)	5.40 (1) / 3.28 (2)	5.19 (1) / 3.14 (2)
Casing	Colour				Ivory white		
	Material				Zinc coated low carbon steel		
Dimensions	Unit	Height		mm	770		
		Width		mm	1,250		
		Depth		mm	362		
	Packed unit	Height		mm	920		
		Width		mm	1,350		
		Depth		mm	500		
Weight	Unit			kg	91		
	Packed unit			kg	98		
Packing	Material				Carton / EPS / Wood (pallet)		
Heat exchanger	Length			mm	920		
	Rows	Quantity			2		
	Fin pitch			mm	1.4		
	Face area			m ²	0.658		
	Stages	Quantity			32		
	Tube type				ø7 Hi-XD		
	Fin	Type			Waffle Hydrophilic Blue Fin		
		Treatment			Hydrophilic		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
Fan motor	Quantity				1		
	Model				KFD-325-77-10A		
	Speed	Steps			10		
		Heating	Nom.	rpm	620	680	740
	Output			W	77		
Compressor	Quantity				1		
	Model				2YC71EXD#C		
Compressor	Type				Hermetically sealed swing compressor		
PED	Category				Category II		
	Most critical part	Name			Compressor		
		Ps*V		Bar*l	110		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	25 (3)		
		Water side	Min.	°C	15 (3)		
			Max.	°C	65 (3)		
	Cooling	Ambient	Min.	°CDB	10 (3)		
			Max.	°CDB	43		
		Water side	Min.	°C	5 (3)		
			Max.	°C	22		
	Domestic hot water	Ambient	Min.	°CDB	-27		
			Max.	°CDB	35		
		Water side	Min.	°C	25		
			Max.	°C	55 (3)		
Sound power level	Heating	Nom.		dBA	58	60	62
	Cooling	Nom.		dBA	61	62	
Sound pressure level	Heating	Nom.		dBA	44	47	49
	Cooling	Nom.		dBA	48	49	50
Refrigerant	Type				R-32		
	GWP				675		
	Charge			kg	1.35		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.1		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Power input			W	75		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume			l	1.01		

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Technical specifications					EBLA04E3V3	EBLA06E3V3	EBLA08E3V3		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	12.3 (1) / 13.2 (2)	17.2 (1) / 16.9 (2)	21.5 (1) / 22.4 (2)		
		Cooling	Nom.	l/min	13.9 (1) / 13.0 (2)	16.7 (1) / 14.6 (2)	17.7 (1) / 15.6 (2)		
	Insulation material				Kaiflex				
Expansion vessel	Heater				50				
	Volume				7				
	Max. water pressure				3				
	Pre pressure				1				
Water circuit	Heater				50				
	inch			in	G 1" (male)				
	Piping length	Max.	OU - Tank	m	10				
	Level difference	Max.		m	5				
	Safety valve				3				
	Drain valve / fill valve				No				
	Air purge valve				Yes				
	General	Supplier/ Manufacturer details	Name or trademark			Daikin Europe N.V.			
Product description		Air-to-water heat pump				Yes			
		Brine-to-water heat pump				No			
		Heat pump combination heater				No			
		Low-temperature heat pump				No			
		Supplementary heater integrated				Yes			
		Water-to-water heat pump				No			
LW(A) Sound power level (according to EN14825)				58	60	62			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Space heating general	Air to water unit	Rated airflow (outdoor)			2,280	2,520	2,770		
	Other	Capacity control				Inverter			
		Pck (Crankcase heater mode)				0			
		Poff (Off mode)				0.01			
		Psb (Standby mode)				0.01			
		Pto (Thermostat off)				0.01			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,769	4,405	4,939		
			ηs (Seasonal space heating efficiency)	%	129	128	131		
			Prated at -10°C	kW	6	7	8		
			Qhe Annual energy consumption (GCV)	Gj	14	16	18		
			SCOP		3.29	3.28	3.35		
			Seasonal space heating eff. class				A++		
			Cdh (Degradation heating)				1		
			A Condition (-7°CDB/-8°CWDB)	COPd		1.97	1.98	1.96	

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Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Space heating	Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Pdh kW	5.3	5.9	6.9
			PERd %	78.8	79.2	78.4
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1	
			COPd	3.23	3.16	3.2
			Pdh kW	3.3	3.9	4.4
			PERd %	129.2	126.4	128
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1	
			COPd	4.4	4.49	4.64
			Pdh kW	3		3.3
			PERd %	176	179.6	185.6
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)		1	
			COPd	6.1		6.22
			Pdh kW	3.3		4.1
			PERd %	244		248.8
		Tol (temperature operating limit)	COPd	1.37	1.53	1.64
			Pdh kW	3.99	5.36	7.05
			PERd %	54.8	61.2	65.6
			TOL °C		-10	
			WTOL °C		55	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	2.01	1.64	0.95
			Tbiv			
		(bivalent temperature)	COPd	1.97	2.12	1.9
			Pdh kW	5.3	6.1	7.5
			PERd %	78.8	84.8	76
			Tbiv °C	-7	-6	-8
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	4,446	5,278	6,864
			ηs (Seasonal space heating efficiency) %	108	109	112
		Prated at -22°C	kW	5	6	8
			Qhe Annual energy consumption (GCV) GJ	16	19	25
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1	
			COPd	2.34	2.32	
			Pdh kW	3	3.6	4.8
			PERd %	93.6	92.8	
	B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)			1	
			COPd	3.32	3.38	3.56
			Pdh kW	2.9	2.4	3
			PERd %	132.8	135.2	142.4
	C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1	

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Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Space heating	Cold climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd	4.78	4.73	5.02
			Pdh kW	3.1	2.5	2.9
			PERd %	191.2	189.2	200.8
			COPd	6.26	6.58	6.61
			Pdh kW	3.3	2.5	3
			PERd %	250.4	263.2	264.4
		Tol (temperature operating limit)	COPd	1.43	1.47	1.46
			Pdh kW	4.1	5.1	6.1
			PERd %	57.2	58.8	58.4
			TOL °C		-18	
			WTOL °C		55	
		G Condition (-15°CDB/-)	COPd	1.58	1.62	1.6
			Pdh kW	4.1	4.9	6.3
			PERd %	63.2	64.8	64
			COPd	1.52	1.55	1.6
			Pdh kW	4.2	5.1	6.3
			PERd %	60.8	62	64
		Tbiv (bivalent temperature)	Tbiv °C		-16	-15
			Rated heat output supplementary capacity	5	6	8
	Warm climate water outlet 55°C	General	Annual energy consumption kWh	1,616	1,813	2,624
			ηs (Seasonal space heating efficiency) %	152	162	
			Prated at 2°C kW	4.7	5.6	8.1
			Qhe Annual energy consumption (GCV) GJ	6	7	9
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1	
			COPd	2.11	2.15	2.09
			Pdh kW	4.7	5.6	6.8
			PERd %	84.4	86	83.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1	
			COPd	3.28	3.45	3.42
			Pdh kW	3	3.6	5.3
			PERd %	131.2	138	136.8
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1	
			COPd	5.13	5.48	5.52
			Pdh kW	3.1	2.3	2.8
			PERd %	205.2	219.2	220.8
		Tbiv (bivalent temperature)	COPd	2.11	2.15	2.66
			Pdh kW	4.7	5.6	6.9

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Technical specifications					EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	PERd Tbiv	% °C	84.4	86	106.4
					2		4
Average climate water outlet 35°C	General	Annual energy consumption	kWh		2,729	3,196	3,588
		ηs (Seasonal space heating efficiency)	%		179	178	181
		Prated at -10°C	kW		6	7	8
		Qhe Annual energy consumption (GCV)	Gj		10	12	13
		SCOP			4.54	4.52	4.61
		Seasonal space heating eff. class				A+++	
A Condition (-7°CDB/-8°CWB)	COPd				2.9	2.86	2.77
	Pdh	kW			5.5	6	7
B Condition (2°CDB/1°CWB)	PERd	%			116	114.4	110.8
	Cdh (Degradation heating)					1	
	COPd				4.33	4.25	4.35
	Pdh	kW			3.3	3.9	4.2
	PERd	%			173.2	170	174
	Cdh (Degradation heating)					1	
C Condition (7°CDB/6°CWB)	COPd				6.19	6.3	6.49
	Pdh	kW			3.2		3.3
	PERd	%			247.6	252	259.6
	Cdh (Degradation heating)					1	
D Condition (12°CDB/11°CWB)	COPd				7.78		8.52
	Pdh	kW			3.3		3.9
	PERd	%			311.2		340.8
	COPd				2.56	2.49	2.41
Tol (temperature operating limit)	Pdh	kW			5.22	6.01	6.93
	PERd	%			102.4	99.6	96.4
	TOL	°C				-10	
	WTOL	°C				35	
Tbiv (bivalent temperature)	COPd				2.9	3.07	2.66
	Pdh	kW			5.5	6.1	7.5
	PERd	%			116	122.8	106.4
	Tbiv	°C			-7	-6	-8
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW			0.78	0.99	1.07
Cold climate water outlet 35°C	General	Annual energy consumption	kWh		3,208	3,727	5,012
		ηs (Seasonal space heating efficiency)	%		151	156	154
		Prated at -22°C	kW		5	6	8
		Qhe Annual energy consumption (GCV)	Gj		11.5	13.4	18

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Technical specifications				EBLA04E3V3		EBLA06E3V3		EBLA08E3V3			
Space heating	Cold climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	COPd		3.37		3.4		3.41		
			Pdh	kW	3		3.6		4.8		
			PERd	%	134.8		136		136.4		
		B Condition (2°CDB/-B/1°CWB)	Cdh (Degradation heating)				1				
			COPd		4.5		4.76		4.66		
			Pdh	kW	2.9		2.2		3.2		
		PERd	%	180		190.4		186.4			
		C Condition (7°CDB/-B/6°CWB)	Cdh (Degradation heating)				1				
			COPd		6.46		6.32		6.69		
			Pdh	kW	3.3		2.8		3.2		
		PERd	%	258.4		252.8		267.6			
		D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)				1				
			COPd		8.05		8.04		8.68		
			Pdh	kW	3.6		2.7		3.3		
		PERd	%	322		321.6		347.2			
		Tol (temperature operating limit)	COPd		1.76		1.85		1.82		
			Pdh	kW	4.3		5.2		6.2		
			PERd	%	70.4		74		72.8		
		TOL	°C			-20					
		WTOL	°C			35					
		G Condition (-15°CDB/-)	COPd		2.2		2.25		2.2		
			Pdh	kW	4.1		4.9		6.5		
			PERd	%	88		90		88		
		Tbiv (bivalent temperature)	COPd		1.91		2.07		2.2		
			Pdh	kW	4.5		5.2		6.5		
			PERd	%	76.4		82.8		88		
		Tbiv	°C	-18		-17		-15			
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	5		6		8		
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,095		1,232		1,393		
			ηs (Seasonal space heating efficiency)	%	251		257		266		
			Prated at 2°C	kW	5.2		6		7		
			Qhe Annual energy consumption (GCV)	Gj		4		5			
B Condition (2°CDB/-B/1°CWB)		Cdh (Degradation heating)				1					
		COPd		3.68		3.5		3.28			
		Pdh	kW	5.2		6		7			
		PERd	%	147.2		140		131.2			
C Condition (7°CDB/-B/6°CWB)		Cdh (Degradation heating)				1					
Space heating		Warm climate water outlet 35°C	C Condition (7°CDB/-B/6°CWB)	COPd		5.79		5.92		5.95	
				Pdh	kW	3.3		3.9		4.5	
				PERd	%	231.6		236.8		238	
			D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)				1			
	COPd				7.78		8		8.57		
	Pdh			kW	3.5		2.7		3.3		
	PERd		%	311.2		320		342.8			
	Tbiv (bivalent temperature)		COPd		3.68		3.5		3.28		
			Pdh	kW	5.2		6		7		
			PERd	%	147.2		140		131.2		
	Tbiv		°C			2					
	Electrical specifications				EBLA04E3V3		EBLA06E3V3		EBLA08E3V3		
	Compressor component		Main power supply	Phase			3N~				
				Voltage		V	220				
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						
	Voltage range	Min.	%		-10						
	Max.	%		10							
Power supply	Name				V3						
	Phase				1~						
	Frequency			Hz	50						
	Voltage			V	230 +/-10%						

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Electrical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Current	Maximum running current	Heating	A	19.9		24
	Recommended fuses		A	20		25

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |

(3)For more details, see operation range drawing

Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Heating capacity	Nom.		kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)
Power input	Heating	Nom.	kW	0.840 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)
COP				5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
Casing	Colour			Ivory white		
	Material			Zinc coated low carbon steel		
Dimensions	Unit	Height	mm	770		
		Width	mm	1,250		
		Depth	mm	362		
	Packed unit	Height	mm	920		
		Width	mm	1,350		
		Depth	mm	500		
Weight	Unit		kg	88		
	Packed unit		kg	95		
Packing	Material			Carton / EPS / Wood (pallet)		
Heat exchanger	Length		mm	920		
	Rows	Quantity		2		
	Fin pitch		mm	1.4		
	Face area		m ²	0.658		
	Stages	Quantity		32		
	Tube type			ø7 Hi-XD		
	Fin	Type		Waffle Hydrophilic Blue Fin		
		Treatment		Hydrophilic		
Fan	Type			Propeller fan		
	Quantity			1		
	Discharge direction			Horizontal		
Fan motor	Quantity			1		
	Model			KFD-325-77-10A		
	Speed	Steps		10		
		Heating	Nom. rpm	620	680	740
	Output		W	77		
Compressor	Quantity			1		
	Model			2YC71EXD#C		
	Type			Hermetically sealed swing compressor		
PED	Category			Category II		
	Most critical part	Name		Compressor		
		Ps*V	Bar*l	110		
Operation range	Heating	Ambient	Min.	°CDB	-25	
			Max.	°CDB	25 (3)	
		Water side	Min.	°C	9 (3)	
			Max.	°C	65 (3)	
	Domestic hot water	Ambient	Min.	°CDB	-27	
			Max.	°CDB	35	
		Water side	Min.	°C	25	
			Max.	°C	55 (3)	
	Sound power level	Heating	Nom.	dBA	58	62
		Heating	Nom.	dBA	44	49
Refrigerant	Type			R-32		
	GWP			675		
	Charge		kg	1.35		
	Control			Expansion valve		
	Circuits	Quantity		1		
	Refrigerant oil			FW68DA		
Defrost method	Type	Charged volume	l	1.1		
				Reversed cycle		
Defrost control				Sensor for outdoor heat exchanger temperature		
Capacity control	Method			Inverter controlled		
Safety devices	Item	01		High pressure switch		
Pump	Quantity			1		
	Nr of speeds			PWM		
	Power input		W	75		

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Technical specifications					EDLA04EV3	EDLA06EV3	EDLA08EV3		
Water side Heat exchanger	Type				Plate heat exchanger				
	Quantity				1				
	Water volume l				1.01				
	Water flow rate	Heating	Nom.	l/min	12.3 (1) / 13.2 (2)	17.2 (1) / 16.9 (2)	21.5 (1) / 22.4 (2)		
	Insulation material				Kaiflex				
	Heater W				50				
Expansion vessel	Volume l				7				
	Max. water pressure bar				3				
	Pre pressure bar				1				
	Heater W				50				
Water circuit	inch in				G 1" (male)				
	Piping length	Max.	OU - Tank	m	10				
	Level difference	Max.		m	5				
Water circuit	Safety valve bar				3				
	Drain valve / fill valve				No				
	Air purge valve				Yes				
General	Supplier/ Manufacturer details	Name or trademark			Daikin Europe N.V.				
	Product description	Air-to-water heat pump				Yes			
		Brine-to-water heat pump				No			
		Heat pump combination heater				No			
		Low-temperature heat pump				No			
		Supplementary heater integrated				No			
		Water-to-water heat pump				No			
	LW(A) Sound power level (according to EN14825) dBA				58	60	62		
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	2,280	2,520	2,770		
	Other	Capacity control				Inverter			
		Pck (Crankcase heater mode) kW				0			
		Poff (Off mode) kW				0.01			
		Psb (Standby mode) kW				0.01			
		Pto (Thermostat off) kW				0.01			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,806	4,441	4,975		
			ηs (Seasonal space heating efficiency)	%	127		130		
			Prated at -10°C	kW	6	7	8		
			Qhe Annual energy consumption (GCV)	Gj	14	16	18		
			SCOP		3.26		3.32		
			Seasonal space heating eff. class		A++				
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1		
			COPd		1.97	1.98	1.96		
			Pdh	kW	5.3	5.9	6.9		
			PERd	%	78.8	79.2	78.4		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1			
		COPd		3.23	3.16	3.2			
		Pdh	kW	3.3	3.9	4.4			
		PERd	%	129.2	126.4	128			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1			
		COPd		4.4	4.49	4.64			
		Pdh	kW	3		3.3			
		PERd	%	176	179.6	185.6			
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1			

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Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Space heating	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd	6.1		6.22
			Pdh kW	3.3		4.1
			PERd %	244		248.8
			Tol (temperature operating limit)	1.37	1.53	1.64
			Pdh kW	3.99	5.36	7.05
			PERd %	54.8	61.2	65.6
			TOL °C		-10	
			WTOL °C		55	
			Rated heat output supplementary capacity	2.01	1.64	0.95
			Psup (at Tdesign -10°C) kW			
			Tbiv COPd	1.97	2.12	1.9
			Pdh kW	5.3	6.1	7.5
			PERd %	78.8	84.8	76
			Tbiv °C	-7	-6	-8
Cold climate water outlet 55°C			General Annual energy consumption	4,468	5,300	6,886
			ns (Seasonal space heating efficiency) %	107	109	112
			Prated at -22°C kW	5	6	8
			Qhe Annual energy consumption (GCV) GJ	16	19	25
			A Condition (-7°CDB/-8°CWB)		1	
			COPd	2.34	2.32	
			Pdh kW	3	3.6	4.8
			PERd %	93.6	92.8	
			B Condition (2°CDB/1°CWB)		1	
			COPd	3.32	3.38	3.56
			Pdh kW	2.9	2.4	3
			PERd %	132.8	135.2	142.4
			C Condition (7°CDB/6°CWB)		1	
			COPd	4.78	4.73	5.02
			Pdh kW	3.1	2.5	2.9
			PERd %	191.2	189.2	200.8
			D Condition (12°CDB/11°CWB)			
			COPd	6.26	6.58	6.61
			Pdh kW	3.3	2.5	3
			PERd %	250.4	263.2	264.4
			Tol (temperature operating limit)	1.43	1.47	1.46
			Pdh kW	4.1	5.1	6.1
			PERd %	57.2	58.8	58.4
			TOL °C		-18	
			WTOL °C		55	

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Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Space heating	Cold climate water outlet 55°C	G Condition (-15°CDB/-)	COPd	1.58	1.62	1.6
			Pdh kW	4.1	4.9	6.3
			PERd %	63.2	64.8	64
		Tbiv (bivalent tempera- ture)	COPd	1.52	1.55	1.6
			Pdh kW	4.2	5.1	6.3
			PERd %	60.8	62	64
			Tbiv °C	-16		-15
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C) kW	5	6	8
	Warm climate water outlet 55°C	General	Annual energy consumption kWh	1,660	1,858	2,669
			ηs (Seasonal space heating efficiency) %	148	158	159
			Prated at 2°C kW	4.7	5.6	8.1
			Qhe Annual energy consumption (GCV) GJ	6	7	10
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)	1		
			COPd	2.11	2.15	2.09
			Pdh kW	4.7	5.6	6.8
			PERd %	84.4	86	83.6
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)	1		
			COPd	3.28	3.45	3.42
			Pdh kW	3	3.6	5.3
			PERd %	131.2	138	136.8
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)	1		
			COPd	5.13	5.48	5.52
			Pdh kW	3.1	2.3	2.8
			PERd %	205.2	219.2	220.8
		Tbiv (bivalent tempera- ture)	COPd	2.11	2.15	2.66
			Pdh kW	4.7	5.6	6.9
			PERd %	84.4	86	106.4
			Tbiv °C	2		4
Average climate water outlet 35°C	General		Annual energy consumption kWh	2,766	3,233	3,625
			ηs (Seasonal space heating efficiency) %	176		179
			Prated at -10°C kW	6	7	8
			Qhe Annual energy consumption (GCV) GJ	10	12	13
			SCOP	4.48	4.47	4.56
			Seasonal space heating eff. class	A++		
	A Condition (-7°CDB- B/-8°CWB)		COPd	2.9	2.86	2.77
			Pdh kW	5.5	6	7
			PERd %	116	114.4	110.8

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Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Space heating Average climate water outlet 35°C	B Condition (2°C CD- B/11°C CWB)	Cdh (Degradation heating)			1	
		COPd		4.33	4.25	4.35
		Pdh kW		3.3	3.9	4.2
		PERd %		173.2	170	174
		Cdh (Degradation heating)			1	
		COPd		6.19	6.3	6.49
		Pdh kW			3.2	3.3
		PERd %		247.6	252	259.6
		Cdh (Degradation heating)			1	
	D Condition (12°C CD- B/11°C CWB)	COPd			7.78	8.52
		Pdh kW			3.3	3.9
		PERd %			311.2	340.8
		Tol (temperature operating limit)				
	Tol (temperature operating limit)	COPd		2.56	2.49	2.41
		Pdh kW		5.22	6.01	6.93
		PERd %		102.4	99.6	96.4
		TOL °C			-10	
		WTOL °C			35	
	Tbiv (bivalent temperature)	COPd		2.9	3.07	2.66
		Pdh kW		5.5	6.1	7.5
		PERd %		116	122.8	106.4
		Tbiv °C		-7	-6	-8
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW		0.78	0.99	1.07
	Cold climate water outlet 35°C	General Annual energy consumption kWh		3,230	3,749	5,034
		ηs (Seasonal space heating efficiency) %		150	155	154
		Prated at -22°C kW		5	6	8
		Qhe Annual energy consumption (GCV) GJ		11.6	13.5	18.1
	A Condition (-7°C CD- B/-8°C CWB)	COPd		3.37	3.4	3.41
		Pdh kW		3	3.6	4.8
		PERd %		134.8	136	136.4
	B Condition (2°C CD- B/11°C CWB)	Cdh (Degradation heating)			1	
		COPd		4.5	4.76	4.66
		Pdh kW		2.9	2.2	3.2
		PERd %		180	190.4	186.4
	C Condition (7°C CD- B/6°C CWB)	Cdh (Degradation heating)			1	
		COPd		6.46	6.32	6.69
		Pdh kW		3.3	2.8	3.2
		PERd %		258.4	252.8	267.6

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Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Space heating	Cold climate water outlet 35°C	D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1	
			COPd	8.05	8.04	8.68
			Pdh kW	3.6	2.7	3.3
			PERd %	322	321.6	347.2
			Tol (tem- perature operating limit)	1.76	1.85	1.82
			Pdh kW	4.3	5.2	6.2
			PERd %	70.4	74	72.8
			TOL °C		-20	
			WTOL °C		35	
		G Condition (-15°CDB/-)	COPd	2.2	2.25	2.2
			Pdh kW	4.1	4.9	6.5
			PERd %	88	90	88
	Warm climate water outlet 35°C	Tbiv (bivalent tempera- ture)	COPd	1.91	2.07	2.2
			Pdh kW	4.5	5.2	6.5
			PERd %	76.4	82.8	88
		Rated heat output sup- plementary capacity	Tbiv °C	-18	-17	-15
			Psup (at Tdesign -22°C) kW	5	6	8
		General	Annual energy consumption kWh	1,139	1,276	1,437
			ηs (Seasonal space heating efficiency) %	241	249	257
			Prated at 2°C kW	5.2	6	7
			Qhe Annual energy consumption (GCV) GJ	4	5	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1	
			COPd	3.68	3.5	3.28
			Pdh kW	5.2	6	7
			PERd %	147.2	140	131.2
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1	
			COPd	5.79	5.92	5.95
			Pdh kW	3.3	3.9	4.5
			PERd %	231.6	236.8	238
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1	
			COPd	7.78	8	8.57
			Pdh kW	3.5	2.7	3.3
			PERd %	311.2	320	342.8
			Tbiv	3.68	3.5	3.28
			Pdh kW	5.2	6	7
			PERd %	147.2	140	131.2
			Tbiv °C		2	

Electrical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Compressor component	Main power supply	Phase			3N~	
		Voltage	V		220	
Power supply	Name				V3	
	Phase				1~	
	Frequency		Hz		50	
	Voltage		V		230 +/-10%	
Current	Maximum running current	Heating	A	19.9		24
	Recommended fuses		A	20		25

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |
(3)For more details, see operation range drawing

Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Heating capacity	Nom.		kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)
Heater capacity	Step 1		kW		3	
Power input	Heating	Nom.	kW	0.840 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)	1.63 (1) / 2.23 (2)
COP				5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
Casing	Colour				Ivory white	
	Material				Zinc coated low carbon steel	
Dimensions	Unit	Height	mm		770	
		Width	mm		1,250	
		Depth	mm		362	
	Packed unit	Height	mm		920	
		Width	mm		1,350	
		Depth	mm		500	

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Technical specifications					EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Weight	Unit				91		
	Packed unit				98		
Packing	Material				Carton / EPS / Wood (pallet)		
Heat exchanger	Length				920		
	Rows	Quantity			2		
	Fin pitch				1.4		
	Face area				0.658		
	Stages	Quantity			32		
	Tube type				ø7 Hi-XD		
	Fin	Type			Waffle Hydrophilic Blue Fin		
		Treatment			Hydrophilic		
Fan	Type				Propeller fan		
	Quantity				1		
	Discharge direction				Horizontal		
Fan motor	Quantity				1		
	Model				KFD-325-77-10A		
	Speed	Steps			10		
		Heating	Nom.	rpm	620	680	740
	Output				77		
Compressor	Quantity				1		
	Model				2YC71EXD#C		
	Type				Hermetically sealed swing compressor		
PED	Category				Category II		
	Most critical part	Name			Compressor		
PED	Most critical part	Ps*V			110		
Operation range	Heating	Ambient	Min.	°CDB	-25		
			Max.	°CDB	25 (3)		
	Water side		Min.	°C	15 (3)		
			Max.	°C	65 (3)		
	Domestic hot water	Ambient	Min.	°CDB	-27		
			Max.	°CDB	35		
	Water side		Min.	°C	25		
			Max.	°C	55 (3)		
Sound power level	Heating	Nom.		dBA	58	60	62
Sound pressure level	Heating	Nom.		dBA	44	47	49
Refrigerant	Type				R-32		
	GWP				675		
	Charge				1.35		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DA		
	Charged volume				1.1		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
Pump	Quantity				1		
	Nr of speeds				PWM		
	Power input				75		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Water volume				1.01		
	Water flow rate	Heating	Nom.	l/min	12.3 (1) / 13.2 (2)	17.2 (1) / 16.9 (2)	21.5 (1) / 22.4 (2)
	Insulation material				Kaiflex		
	Heater				50		
Expansion vessel	Volume				7		
	Max. water pressure				3		
	Pre pressure				1		
	Heater				50		
Water circuit	inch				G1" (male)		
	Piping length	Max.	OU - Tank	m	10		
	Level difference	Max.		m	5		
Water circuit	Safety valve				3		
	Drain valve / fill valve				No		
	Air purge valve				Yes		

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Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3	
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.			
Product description		Air-to-water heat pump		Yes			
		Brine-to-water heat pump		No			
		Heat pump combination heater		No			
		Low-temperature heat pump		No			
		Supplementary heater integrated		Yes			
		Water-to-water heat pump		No			
LW(A) Sound power level (according to EN14825)		dB(A)	58	60	62		
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	2,280	2,520	2,770	
	Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)	kW	0			
		Poff (Off mode)	kW	0.01			
		Psb (Standby mode)	kW	0.01			
		Pto (Thermostat off)	kW	0.01			
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,806	4,441	4,975
			ηs (Seasonal space heating efficiency)	%	127		130
		Prated at -10°C	kW	6	7	8	
			Qhe Annual energy consumption (GCV)	Gj	14	16	18
		SCOP		3.26		3.32	
		Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1			
			COPd	1.97	1.98	1.96	
			Pdh	5.3	5.9	6.9	
			PERd	78.8	79.2	78.4	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1			
			COPd	3.23	3.16	3.2	
			Pdh	3.3	3.9	4.4	
			PERd	129.2	126.4	128	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1			
			COPd	4.4	4.49	4.64	
			Pdh	3		3.3	
			PERd	176	179.6	185.6	

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Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3	
Space heating	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1			
			COPd	6.1		6.22	
			Pdh kW	3.3		4.1	
			PERd %	244		248.8	
		Tol (temperature operating limit)	COPd	1.37	1.53	1.64	
			Pdh kW	3.99	5.36	7.05	
			PERd %	54.8	61.2	65.6	
			TOL °C	-10			
		WTOL °C	55				
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	2.01	1.64	0.95	
	Cold climate water outlet 55°C	General	Tbiv (bivalent temperature)	COPd	1.97	2.12	1.9
			Pdh kW	5.3	6.1	7.5	
			PERd %	78.8	84.8	76	
			Tbiv °C	-7	-6	-8	
			Annual energy consumption kWh	4,468	5,300	6,886	
			ηs (Seasonal space heating efficiency) %	107	109	112	
			Prated at -22°C kW	5	6	8	
			Qhe Annual energy consumption (GCV) GJ	16	19	25	
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1		
				COPd	2.34	2.32	
Pdh kW		3		3.6	4.8		
PERd %		93.6		92.8			
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	1				
		COPd	3.32	3.38	3.56		
		Pdh kW	2.9	2.4	3		
		PERd %	132.8	135.2	142.4		
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	1				
		COPd	4.78	4.73	5.02		
		Pdh kW	3.1	2.5	2.9		
		PERd %	191.2	189.2	200.8		
D Condition (12°CDB/11°CWB)	COPd	6.26	6.58	6.61			
	Pdh kW	3.3	2.5	3			
	PERd %	250.4	263.2	264.4			
	Tol (temperature operating limit)	COPd	1.43	1.47	1.46		
Pdh kW	4.1	5.1	6.1				
PERd %	57.2	58.8	58.4				
TOL °C	-18						

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Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3	
 Space heating	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	WTOL	°C	55		
		G Condition (-15°CDB/-)	COPd		1.58	1.62	1.6
			Pdh	kW	4.1	4.9	6.3
			PERd	%	63.2	64.8	64
		Tbiv (bivalent tempera- ture)	COPd		1.52	1.55	1.6
			Pdh	kW	4.2	5.1	6.3
			PERd	%	60.8	62	64
		Tbiv	°C	-16		-15	
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	5	6	8
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh	1,660	1,858
	ηs (Seasonal space heating efficiency)			%	148	158	159
	Prated at 2°C			kW	4.7	5.6	8.1
	Qhe Annual energy consumption (GCV)			Gj	6	7	10
	B Condition (2°CDB- B/1°CWB)		Cdh (Degradation heating)		1		
			COPd		2.11	2.15	2.09
			Pdh	kW	4.7	5.6	6.8
			PERd	%	84.4	86	83.6
	C Condition (7°CDB- B/6°CWB)		Cdh (Degradation heating)		1		
			COPd		3.28	3.45	3.42
			Pdh	kW	3	3.6	5.3
			PERd	%	131.2	138	136.8
	D Condition (12°CDB- B/11°CWB)		Cdh (Degradation heating)		1		
			COPd		5.13	5.48	5.52
			Pdh	kW	3.1	2.3	2.8
			PERd	%	205.2	219.2	220.8
	Tbiv (bivalent tempera- ture)		COPd		2.11	2.15	2.66
			Pdh	kW	4.7	5.6	6.9
		PERd	%	84.4	86	106.4	
		Tbiv	°C	2		4	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	2,766	3,233	3,625
			ηs (Seasonal space heating efficiency)	%	176		179
			Prated at -10°C	kW	6	7	8
			Qhe Annual energy consumption (GCV)	Gj	10	12	13
			SCOP		4.48	4.47	4.56
			Seasonal space heating eff. class		A+++		
		A Condition (-7°CDB/-8°CWB)	COPd		2.9	2.86	2.77
			Pdh	kW	5.5	6	7

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Technical specifications					EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB) B Condition (2°CDB/-1°CWB) C Condition (7°CDB/-6°CWB) D Condition (12°CDB/-11°CWB) Tol (temperature operating limit) Tbiv (bivalent temperature) Rated heat output supplementary capacity Cold climate water outlet 35°C	PERd	%		116	114.4	110.8
		Cdh (Degradation heating)				1	
		COPd			4.33	4.25	4.35
		Pdh	kW		3.3	3.9	4.2
		PERd	%		173.2	170	174
		Cdh (Degradation heating)				1	
		COPd			6.19	6.3	6.49
		Pdh	kW			3.2	3.3
		PERd	%		247.6	252	259.6
		Cdh (Degradation heating)				1	
		COPd				7.78	8.52
		Pdh	kW			3.3	3.9
		PERd	%			311.2	340.8
		COPd			2.56	2.49	2.41
		Pdh	kW		5.22	6.01	6.93
		PERd	%		102.4	99.6	96.4
		TOL	°C			-10	
		WTOL	°C			35	
		COPd			2.9	3.07	2.66
		Pdh	kW		5.5	6.1	7.5
		PERd	%		116	122.8	106.4
		Tbiv	°C		-7	-6	-8
		Psup (at Tdesign -10°C)	kW		0.78	0.99	1.07
		General Annual energy consumption	kWh		3,230	3,749	5,034
		ηs (Seasonal space heating efficiency)	%		150	155	154
		Prated at -22°C	kW		5	6	8
		Qhe Annual energy consumption (GCV)	Gj		11.6	13.5	18.1
		COPd			3.37	3.4	3.41
		Pdh	kW		3	3.6	4.8
		PERd	%		134.8	136	136.4
		Cdh (Degradation heating)				1	
		COPd			4.5	4.76	4.66
		Pdh	kW		2.9	2.2	3.2
		PERd	%		180	190.4	186.4
		Cdh (Degradation heating)				1	
		COPd			6.46	6.32	6.69
		Pdh	kW		3.3	2.8	3.2

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Technical specifications					EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%	258.4	252.8	267.6
			Cdh (Degradation heating)				1
			COPd		8.05	8.04	8.68
		D Condition (12°CDB/11°CWB)	Pdh	kW	3.6	2.7	3.3
			PERd	%	322	321.6	347.2
			Tol (temperature operating limit)		1.76	1.85	1.82
			Pdh	kW	4.3	5.2	6.2
			PERd	%	70.4	74	72.8
			TOL	°C		-20	
		G Condition (-15°CDB/-)	WTOL	°C		35	
			COPd		2.2	2.25	2.2
			Pdh	kW	4.1	4.9	6.5
	Warm climate water outlet 35°C		PERd	%	88	90	88
			Tbiv (bivalent temperature)		1.91	2.07	2.2
			Pdh	kW	4.5	5.2	6.5
			PERd	%	76.4	82.8	88
			Tbiv	°C	-18	-17	-15
			Rated heat output supplementary capacity		5	6	8
		General	Psup (at Tdesign -22°C)	kW			
			Annual energy consumption	kWh	1,139	1,276	1,437
			ηs (Seasonal space heating efficiency)	%	241	249	257
			Prated at 2°C	kW	5.2	6	7
		B Condition (2°CDB/1°CWB)	Qhe Annual energy consumption (GCV)	Gj	4	5	
			Cdh (Degradation heating)			1	
			COPd		3.68	3.5	3.28
		C Condition (7°CDB/6°CWB)	Pdh	kW	5.2	6	7
			PERd	%	147.2	140	131.2
			Cdh (Degradation heating)			1	
		D Condition (12°CDB/11°CWB)	COPd		5.79	5.92	5.95
			Pdh	kW	3.3	3.9	4.5
			PERd	%	231.6	236.8	238
			Cdh (Degradation heating)			1	
			COPd		7.78	8	8.57
			Pdh	kW	3.5	2.7	3.3
		Tbiv (bivalent temperature)	PERd	%	311.2	320	342.8
			COPd		3.68	3.5	3.28
			Pdh	kW	5.2	6	7
			PERd	%	147.2	140	131.2
			Tbiv	°C		2	

Electrical specifications					EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Compressor component	Main power supply	Phase				3N~	
		Voltage	V			220	
Hydraulic component	Back-up heater	Type				3V3	
		Power supply	Phase			1~	
		Frequency	Hz			50	
	Running current	Voltage	V			230	
		Back-up heater	A			13	
Power supply	Voltage range	Min.	%			-10	
		Max.	%			10	
	Name					V3	
		Phase				1~	
Current	Frequency		Hz			50	
		Voltage	V			230 +/-10%	
	Maximum running current	Heating	A		19.9		24
		Recommended fuses	A		20		25

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |
(3)For more details, see operation range drawing

3 Electrical data

3 - 1 Electrical Data

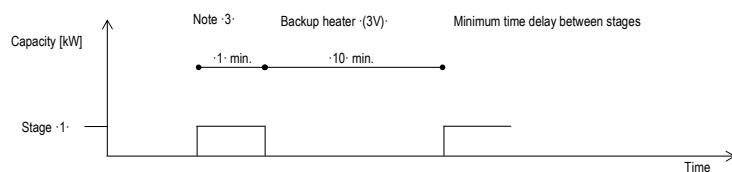
EBLA04-08E3V3

EDLA04-08E3V3

Electrical specifications

Backup heater	Type			3V
	Capacity setting		kW	3
	Capacity stage -1			1
	Capacity stage -1		kW	3
	Capacity stage -2		kW	-
	Minimum time delay between stages			Note -3
	Power supply (1)	Phase		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

EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3

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

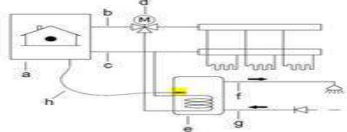
Reference	Description	Notes	E(B/D)LA(04/06/08)E*			
			No backup heater		Backup heater	
			Heating only	Reversible	Heating only	Reversible
			EDLA(04/06/08) E2V3	EBLA(04/06/08) E2V3	EDLA(04/06/08) E23V3	EBLA(04/06/08) E23V3
EKRP1HBAA	Digital I/O PCB	(1)	o	o	o	o
EKRP1AHTA	Demand PCB		o	o	o	o
BRC1HHDA*	Remote user interface		o	o	o	o
BRP069A61	LAN adapter with solar connectivity		o	o	o	o
BRP069A62	LAN adapter		o	o	o	o
EKREL5G	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
EKH3PART	Third-party tank connection kit for thermostat pocket	(4) (6)	o	o	o	o
EKH3PART2	Third-party tank connection kit for thermostat contact	(5) (6)	o	o	o	o
EKLBHCB6W	Backup heater kit	(7)	o	o	-	-
EKMHBHP1	Valve kit	(7)	-	o	-	-
EKFLSW2	Flow switch	(8)	o	o	o	o
AFVALVE1	Freeze protection valve		o	o	o	o
FWY10-15-20ABTV3*	Heat pump convactor	Floor standing unit	o	o	o	o
FWXT10-15-20ABTV3*	Heat pump convactor	Wall mounted type	o	o	o	o
FWWM10-15-20ATV3*	Heat pump convactor	Ceiling ceiling	o	o	o	o
EKHWS150D3V3	Domestic hot water tank -LT 150 1°-230V (hard pickled)		o	o	o	o
EKHWS180D3V3	Domestic hot water tank -LT 180 1°-230V (hard pickled)		o	o	o	o
EKHWS200D3V3	Domestic hot water tank -LT 200 1°-230V (hard pickled)		o	o	o	o
EKHWS250D3V3	Domestic hot water tank -LT 250 1°-230V (hard pickled)		o	o	o	o
EKHWS300D3V3	Domestic hot water tank -LT 300 1°-230V (hard pickled)		o	o	o	o
EKHWS150D3V3	Domestic hot water tank -LT 150 1°-230V (soft pickled)		o	o	o	o
EKHWS180D3V3	Domestic hot water tank -LT 180 1°-230V (soft pickled)		o	o	o	o
EKHWS200D3V3	Domestic hot water tank -LT 200 1°-230V (soft pickled)		o	o	o	o
EKHWS250D3V3	Domestic hot water tank -LT 250 1°-230V (soft pickled)		o	o	o	o
EKHWS300D3V3	Domestic hot water tank -LT 300 1°-230V (soft pickled)		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) (12)	o	o	o	o
EKHWP500B	Domestic hot water tank -HT 500	(10) (11) (12)	o	o	o	o
EKHWP300PB	Domestic hot water tank -HT 300	(10) (11) (12)	o	o	o	o
EKHWP500PB	Domestic hot water tank -HT 500	(10) (11) (12)	o	o	o	o
EKMIKPOAF	Mixing kit - PCB only		o	o	o	o
EKMIKPHAF	Mixing kit - PCB with hydraulics		o	o	o	o
EKMIKHMAF	Hydraulics - mixed pump ground	(13)	o	o	o	o
EKMIKHUAF	Hydraulics - unmixed pump ground	(13)	o	o	o	o
EKMIKBVAF	Balancing vessel		o	o	o	o
EKMIKDIAF	Distributor for balancing vessel	(14)	o	o	o	o
EKRTWA	Wired room thermostat		o	o	o	o
EKRTR1, EKRTTB	Wireless room thermostat		o	o	o	o
EKRTE1S	External temperature sensor option kit	(15)	o	o	o	o
EKTESE1	Temperature sensor DHW	(16)	o	o	o	o
EKTESE2	Temperature sensor DHW	(17)	o	o	o	o
EKWUFHTA1V3	Multi zoning kit		o	o	o	o

Notes

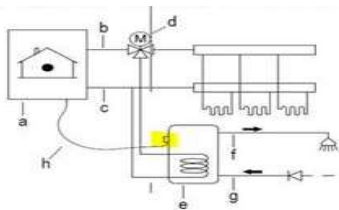
- (1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- (3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- (7) Necessity to install a bypass kit -EKMBHBP1- to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.
- (8) -EKFLSW2- is obligatory for Monoblock & Mini-chiller in case Glycol is used.
- (9) Only possible in combination with -EKEXPV5-.
- (10) Domestic hot water tank with solar connection. Dedicated connection kit available. Other options EKRS4A* Solar pump station
- For the combination with -EKHWP*, refer to the combination table of -EKHWP*.
- The installation of -EKBH35*, is mandatory. As backup or for tank preheating. For details, see the installer reference guide.
- The installation of -EKPRHLT*, is mandatory.
- (11) Only possible in combination with -EKMIKPOAF-.
- (12) Only possible in combination with -EKMIKBVAF- and -EKMIKPHAF- or -EKMIKHUAF-.
- (13) Can only be used in combination with the wireless room thermostat.
- (15) Only in combination with -EKHWS*.
- (16) Only in combination with -EKHWP*.
- (17) Only in combination with -EKHWP*.

Notes

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



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



- (6) Conditions for third-party tank

Third-party with identical specifications as -EKHWS*.
Coil surface > 1.05 m² and < 3.7 m².
Tank thermostat and booster heater above heat pump coil.

Remark

Other combinations than mentioned in this combination table are prohibited.

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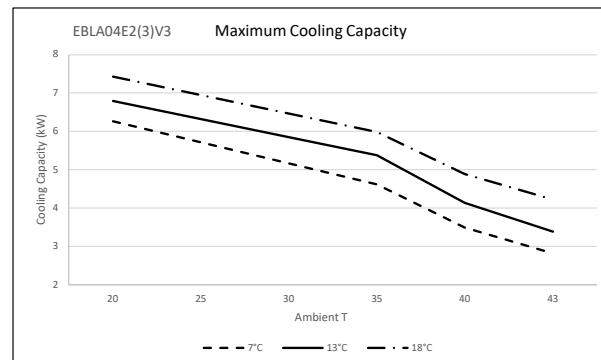
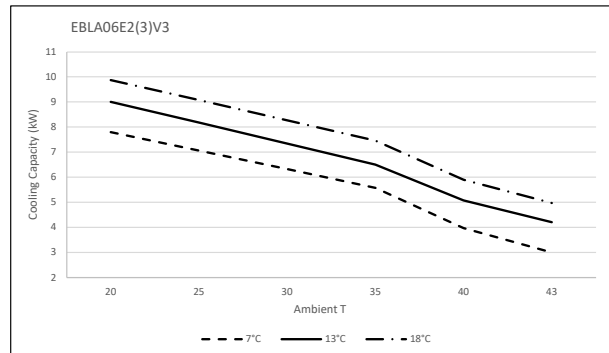
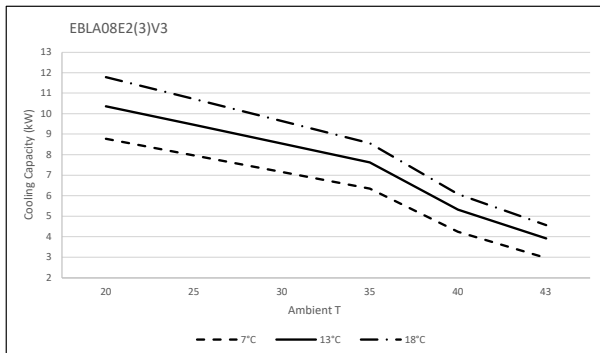
5 Capacity graphs

5 - 1 Cooling Capacity Graphs

EBLA04-08EV3

EBLA04-08E3V3

5



Symbols

CC	Cooling capacity at maximum operating frequency, measured according to EN 14511.
HC	Heating capacity at maximum operating frequency, measured according to EN 14511
PI	Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.
LWE	Leaving water evaporator temperature [°C]
LWC	Leaving water condensor temperature [°C]
Tamb	Ambient temperature; RH (heating) = 85%

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.
Capacity values may not be extrapolated below 7°C leaving water temperature.

Heating capacity

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

Power input

Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

Notes

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

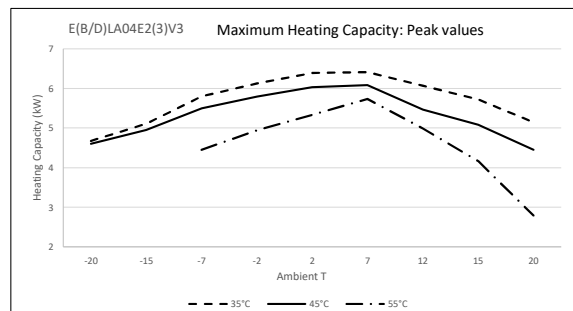
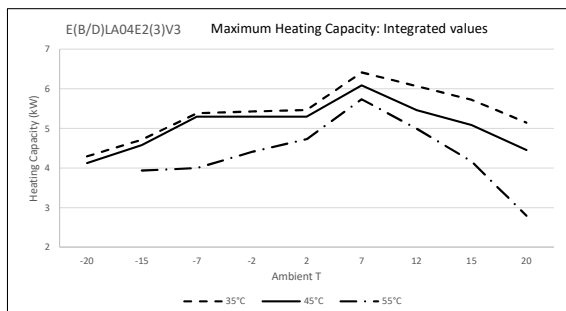
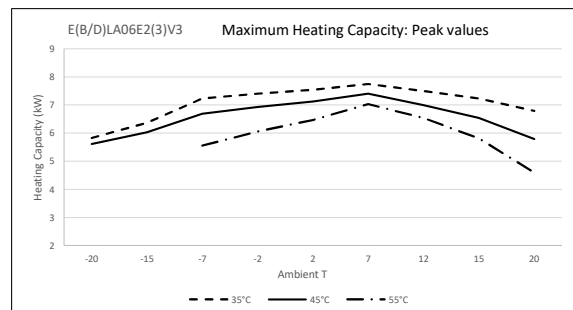
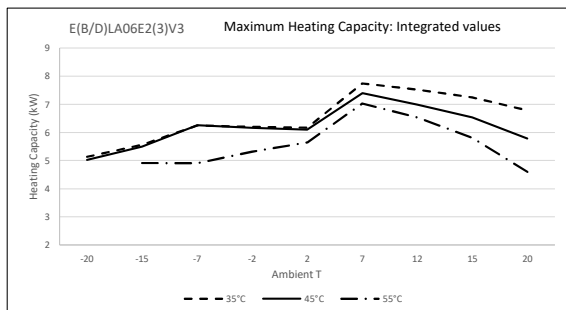
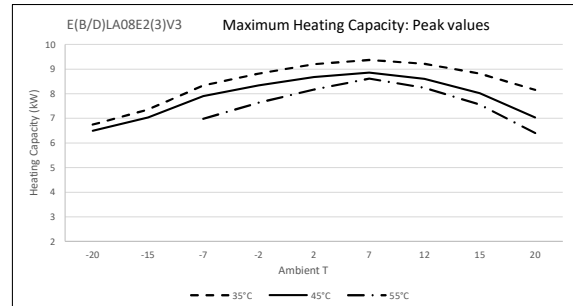
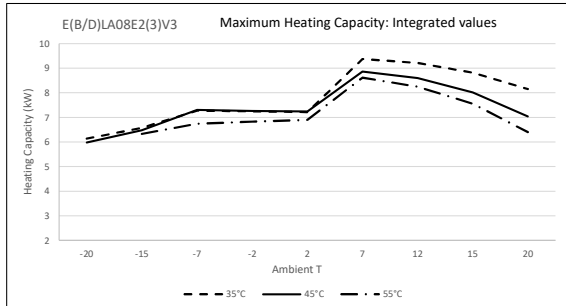
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5 Capacity graphs

5 - 2 Heating Capacity Graphs

EBLA04-08EV3
EDLA04-08EV3
EBLA04-08E3V3
EDLA04-08E3V3

5



Symbols

- CC Cooling capacity at maximum operating frequency, measured according to EN 14511.
 HC Heating capacity at maximum operating frequency, measured according to EN 14511
 PI Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.
 LWE Leaving water evaporator temperature [°C]
 LWC Leaving water condenser temperature [°C]
 Tamb Ambient temperature; RH (heating) = 85%

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.
 Capacity values may not be extrapolated below 7°C leaving water temperature.

Heating capacity

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

Power input

Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

Notes

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

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5 Capacity graphs

5 - 3 Heating Capacity Graphs - more quiet mode

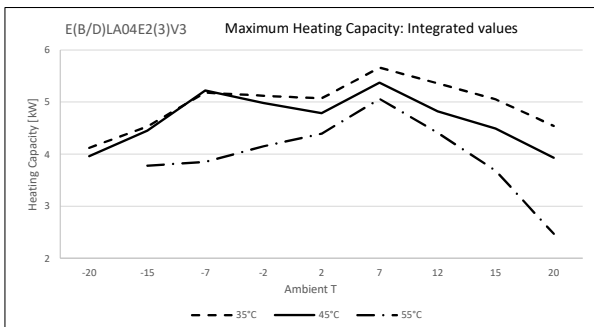
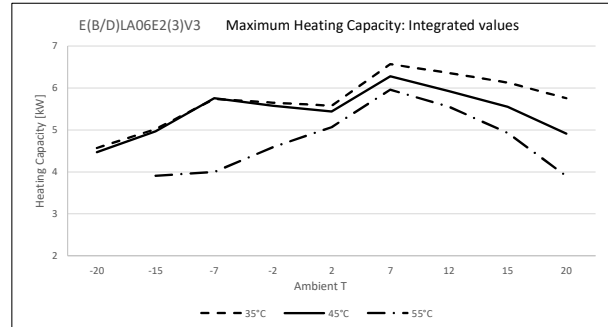
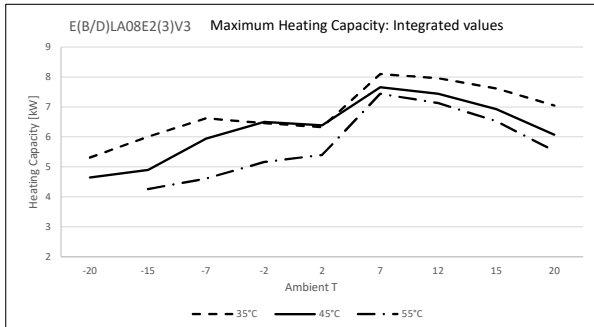
EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3

5



Symbols

CC	Cooling capacity at maximum operating frequency, measured according to EN 14511.
HC	Heating capacity at maximum operating frequency, measured according to EN 14511.
PI	Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.
LWE	Leaving water evaporator temperature [°C]
LWC	Leaving water condensor temperature [°C]
Tamb	Ambient temperature; RH (heating) = 85%

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.
Capacity values may not be extrapolated below 7°C leaving water temperature.

Heating capacity

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

Power input

Power input is the total input of indoor and outdoor units, including the circulation pump; according to EN 14511.

Notes

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

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6 Capacity tables

6 - 1 Certification Programs

EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3

Rated data for certification programmes - heating mode

Tamb [°C]	EWc [°C]	LWC [°C]	E(B/D)LA04E2(3)V3 HC [kW]	COP	E(B/D)LA06E2(3)V3 HC [kW]	COP	E(B/D)LA08E2(3)V3 HC [kW]	COP
10/8	30	35	5,17	5,42	6,17	5,12	7,72	4,72
7/6	30	35	4,30	5,10	6,00	4,85	7,50	4,60
2/1	30	35	3,50	4,10	4,80	3,75	5,60	3,65
-7/-8	30	35	4,50	3,10	5,50	2,90	6,00	2,70
7/6	40	45	4,60	3,65	5,90	3,50	7,80	3,50
2/1	40	45	4,20	2,80	5,00	2,80	6,00	2,75
-7/-8	40	45	4,35	2,40	5,00	2,35	6,10	2,21
7/6	47	55	4,90	2,65	5,80	2,70	7,50	2,70
-7/-8	47	55	4,20	1,60	5,00	1,65	5,50	1,70

Rated data for certification programmes - cooling mode

Tamb [°C]	EWE [°C]	LWE [°C]	EBLA04E2(3)V3 CC [kW]	EER	EBLA06E2(3)V3 CC [kW]	EER	EBLA08E2(3)V3 CC [kW]	EER
35	23	18	4,86	5,91	5,83	5,4	6,18	5,19
35	12	7	4,52	3,32	5,09	3,28	5,44	3,14

Seasonal data - cooling

Low temperature
Application

LWE 7°C

		EBLA04E2(3)V3	EBLA06E2(3)V3	EBLA08E2(3)V3
SEER	[-]	5,25	5,31	5,36
Pdes	[kW]	4,5	5,1	5,4
η _{s,c}	[-]	210%	212%	215%
Q _{ce}	[kWh/annum]	518	576	609

Rated data for sound GET database

Standard sound model		E(B/D)LA04E2(3)V3	E(B/D)LA06E2(3)V3	E(B/D)LA08E2(3)V3
Maximum sound day	Sound power [dBA]	60	62	65
Maximum sound night	Sound power [dBA]	54	54	54

Low sound model		E(B/D)LA04E2(3)V3	E(B/D)LA06E2(3)V3	E(B/D)LA08E2(3)V3
Maximum sound day	Sound power [dBA]	59	61	63
Maximum sound night	Sound power [dBA]	52	52	52

Symbols

HC	Heating capacity measured according to EN 14511
CC	Cooling capacity, measured according to EN 14511.
COP/EER	Coefficient of Performance/Energy efficiency ratio according to EN 14511.
EWc	Entering water condenser temperature [°C]
LWC	Leaving water condensor temperature [°C]
EWE	Entering water evaporator temperature [°C]
LWE	Leaving water evaporator temperature [°C]
Tamb	Ambient temperature [°C DB/WB]
Pdes	Nominal capacity value at design temperature [kW]
η _{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

Rated data for certification programmes - domestic hot water performance

Outdoor unit		E(B/D)LA(04/06/08)E2(3)V3									
Domestic hot water tank		EKHWSP150D 3V3	EKHWSP180D 3V3	EKHWSP200D 3V3	EKHWSP250D 3V3	EKHWSP300D 3V3	EKHWSP300B 3V3	EKHWSP200D 3V3	EKHWSP250D 3V3	EKHWSP300D 3V3	EKHWSP300B 3V3
Tapping pattern		L	L	L	XL	L	L	L	XL	L	XL
Application		Average climate (design temperature: -7 °C)									
COP _{DHW}	[]	2,02	2,65	2,91	2,77	2,77	2,02	2,65	2,91	2,77	2,77
η _{wh}	[%]	84,1%	110,3%	121,1%	117,1%	114,3%	84,1%	110,3%	121,1%	117,1%	114,3%
AEC	[kWh]	1217	928	845	1430	1466	1217	928	845	1430	1466
Application		Colder climate (design temperature: -2 °C)									
COP _{DHW}	[]	1,66	2,16	2,36	2,34	2,33	1,66	2,16	2,36	2,34	2,33
η _{wh}	[%]	68,8%	89,6%	98,3%	98,9%	96,2%	68,8%	89,6%	98,3%	98,9%	96,2%
AEC	[kWh]	1487	1142	1042	1694	1742	1487	1142	1042	1694	1742
Application		Warmer climate (design temperature: -14 °C)									
COP _{DHW}	[]	2,38	3,01	3,31	3,22	3,23	2,38	3,01	3,31	3,22	3,23
η _{wh}	[%]	99,8%	126,2%	138,6%	136,7%	133,3%	99,8%	126,2%	138,6%	136,7%	133,3%
AEC	[kWh]	1025	811	738	1225	1256	1025	811	738	1225	1256

Outdoor unit		E(B/D)LA(04/06/08)E2(3)V3									
Domestic hot water tank		EKHWSP150D 3V3	EKHWSP180D 3V3	EKHWSP200D 3V3	EKHWSP250D 3V3	EKHWSP300D 3V3	EKHWSP300B 3V3	EKHWSP200D 3V3	EKHWSP250D 3V3	EKHWSP300D 3V3	EKHWSP300B 3V3
Tapping pattern		L	L	L	XL	XL	L	L	XL	L	XL
Application		Average climate (design temperature: -7 °C)									
COP _{DHW}	[]	2,02	2,65	2,91	2,77	2,77	2,02	2,65	2,91	2,77	2,77
η _{wh}	[%]	84,1%	110,3%	121,1%	117,1%	114,3%	84,1%	110,3%	121,1%	117,1%	114,3%
AEC	[kWh]	1217	928	845	1430	1466	1217	928	845	1430	1466
Application		Colder climate (design temperature: -2 °C)									
COP _{DHW}	[]	1,66	2,16	2,36	2,34	2,33	1,66	2,16	2,36	2,34	2,33
η _{wh}	[%]	68,8%	89,6%	98,3%	98,9%	96,2%	68,8%	89,6%	98,3%	98,9%	96,2%
AEC	[kWh]	1487	1142	1042	1694	1742	1487	1142	1042	1694	1742
Application		Warmer climate (design temperature: -14 °C)									
COP _{DHW}	[]	2,38	3,01	3,31	3,22	3,23	2,38	3,01	3,31	3,22	3,23
η _{wh}	[%]	99,8%	126,2%	138,6%	136,7%	133,3%	99,8%	126,2%	138,6%	136,7%	133,3%
AEC	[kWh]	1025	811	738	1225	1256	1025	811	738	1225	1256

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

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

Rated data for certification programmes - heating mode
Measured according to ·UNI/TS 11300·

Condition	Tamb [°C]	LWC [°C]	PLR [%]	E(B/D)LA04E2(3)V3		E(B/D)LA06E2(3)V3		E(B/D)LA08E2(3)V3	
				HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	-7/-8	34	100	5,39	2,90	6,25	2,85	7,28	2,74
B	2/1	30	100	5,60	4,00	6,20	4,05	7,20	3,79
C	7/6	27	100	6,73	5,93	8,18	5,50	9,60	5,25
D	12/11	24	100	6,95	8,31	8,49	7,56	10,02	7,10
A	-7/-8	52	100	4,39	1,54	5,31	1,59	6,91	1,71
B	2/1	42	100	5,35	3,14	6,12	3,00	7,24	2,87
C	7/6	36	100	6,38	4,77	7,71	4,62	9,32	4,38
D	12/11	30	100	6,32	7,35	7,79	7,35	9,52	6,39

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

Condition	Tamb [°C]	LWE [°C]	PLR [%]	EBLA04E2(3)V3		EBLA06E2(3)V3		EBLA08E2(3)V3	
				CC [kW]	EER	CC [kW]	EER	CC [kW]	EER
A	35	18	100	5,98	5,64	7,45	4,84	8,57	4,58
B	30	18	75	4,85	7,31	6,19	6,13	7,23	5,69
C	25	18	50	3,47	8,68	4,54	7,09	5,36	6,38
D*	20	18	25	3,58	9,90	3,58	9,90	3,58	9,90
A	35	7	100	4,62	3,73	5,57	3,48	6,34	3,32
B	30	7	75	3,88	4,76	4,74	4,32	5,37	4,15
C	25	7	50	2,86	5,40	3,53	4,90	3,99	4,69
D*	20	7	25	2,59	6,31	2,59	6,31	2,59	6,31

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

3D141410

7 Dimensional drawings

7 - 1 Dimensional Drawings

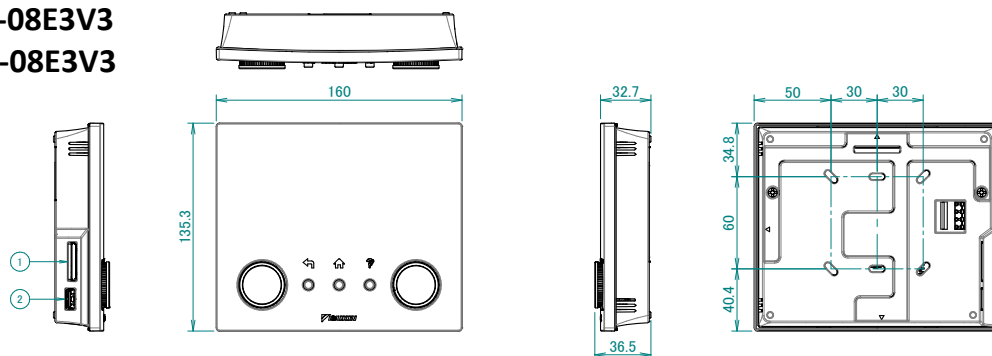
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EBLA04-08EV3

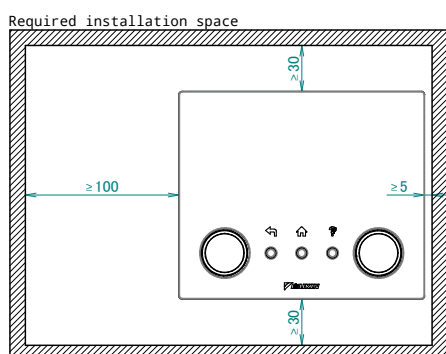
EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3



- 1 USB Connector
- 2 WLAN cartridge



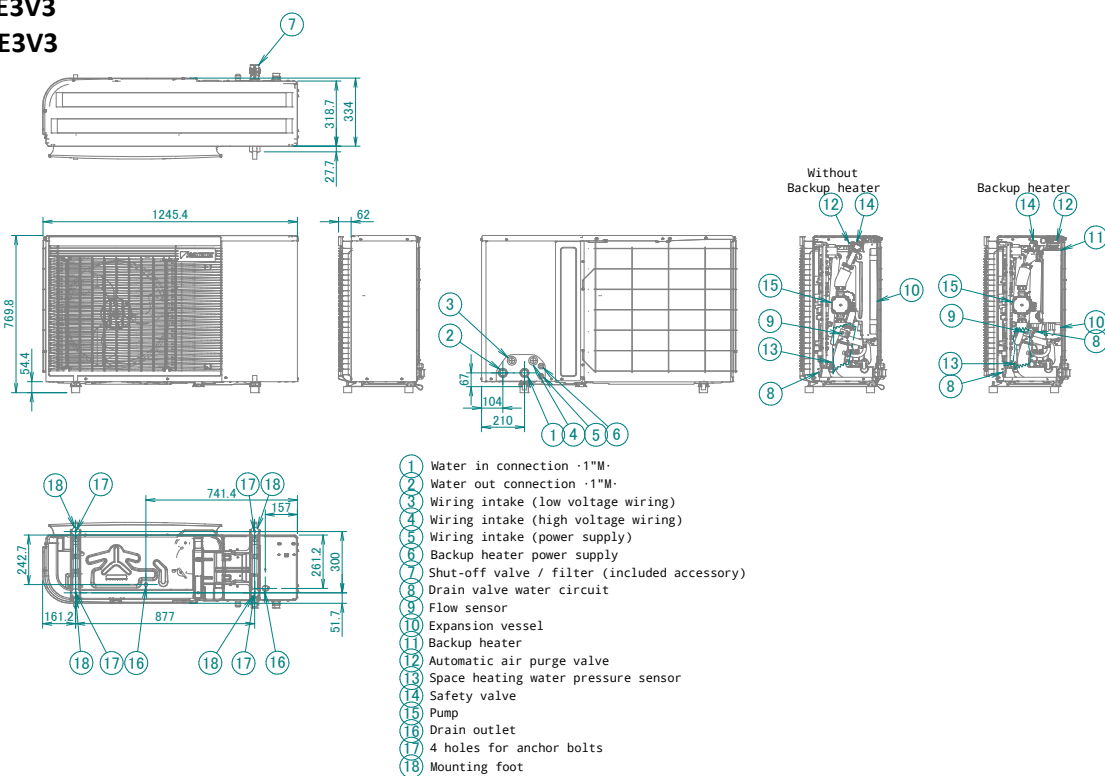
3D132732

EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3



3D139356A

8 Centre of gravity

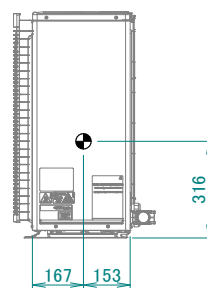
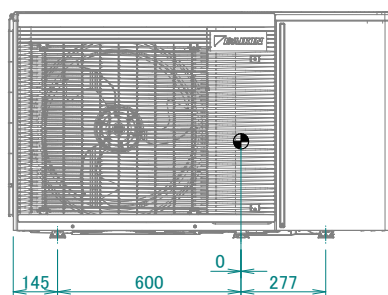
8 - 1 Centre of Gravity

EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3



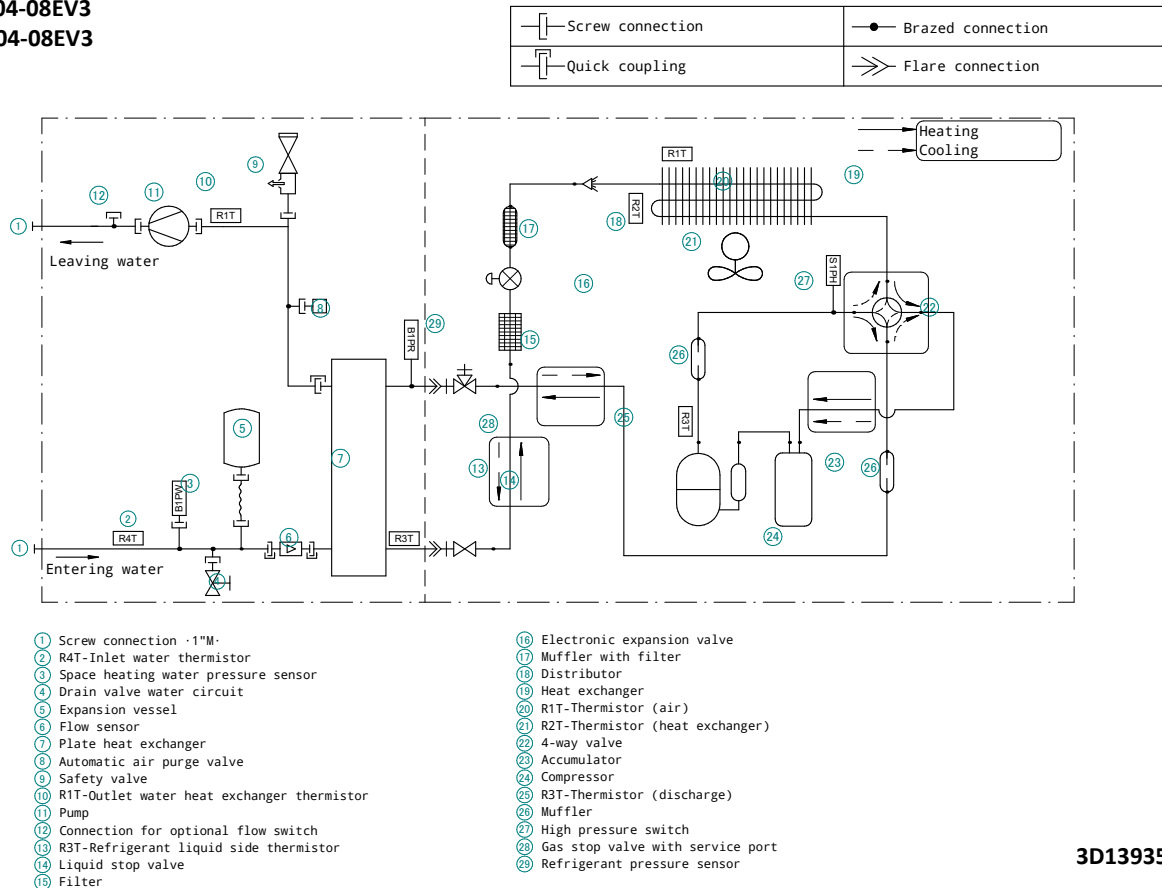
3D139363

9 Piping diagrams

9 - 1 Piping Diagrams

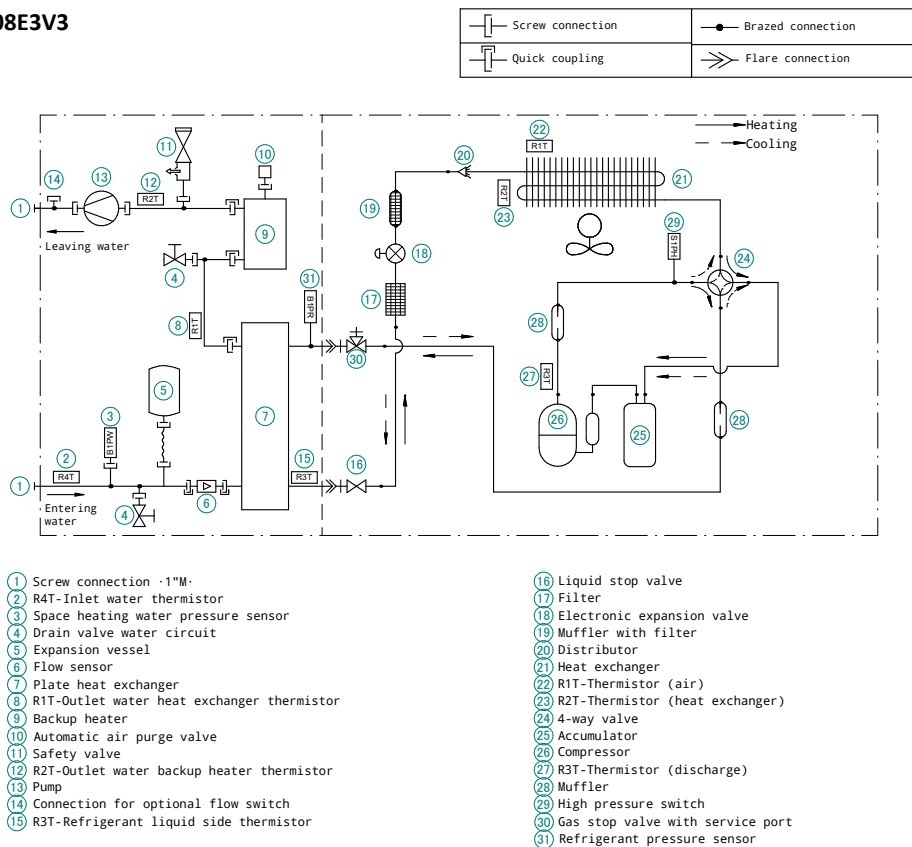
9

EBLA04-08EV3
EDLA04-08EV3



3D139353B

EBLA04-08E3V3
EDLA04-08E3V3



3D139436B

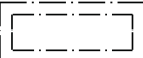
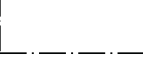
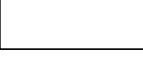
10 Wiring diagrams

10 - 1 Notes & Legend

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

(2) NOTES

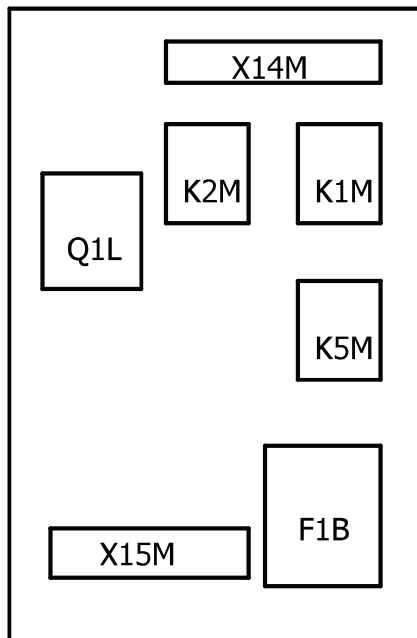
- X14M, X15M : Main terminal
- : Earth wiring
- 15 : Wire number 15
- : Field supply
- ① : Several wiring possibilities

-  : 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

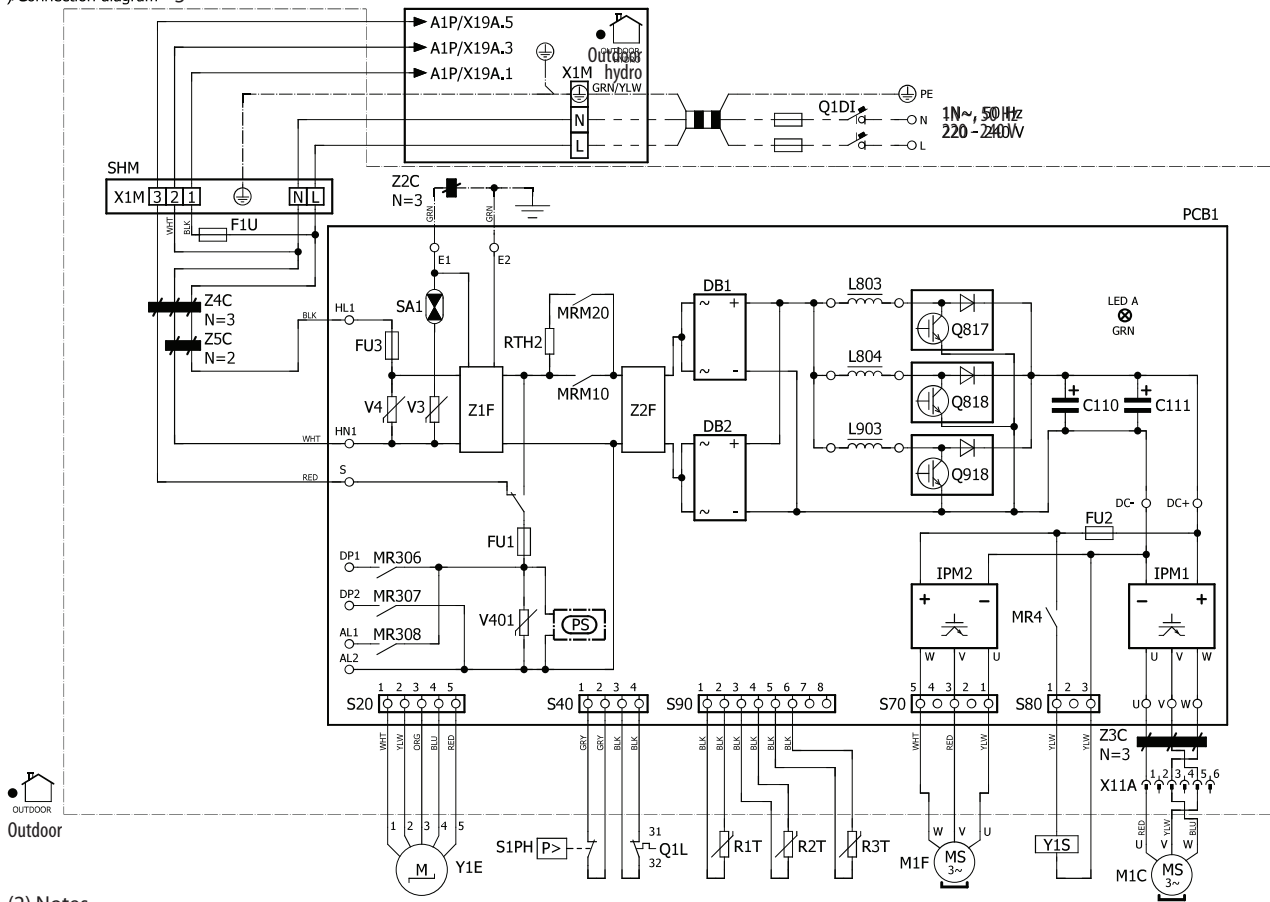
4D139355E

10 Wiring diagrams

10 - 2 Compressor - Single phase

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

(1) Connection diagram



(2) Notes

- : Connection
- X1M : Main terminal
- : Earth wiring
- - - : Field supply
- [] : Option
- [] : switch box
- [] : PCB
- [] : Wiring depending on model
- ⊕ : Protective earth
- [] : Field wire

NOTES

- When operating, do not short-circuit protection device(s) S1PH and Q1L.
- Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; YLW: yellow

(3) Legend

* : optional # : field supply

Part n°	Description
A1P	Hydro kit main PCB
AL	* Connector
C	* Capacitor
DB	* Rectifier bridge
DC	* Connector
DP	* Connector
E	* Connector
F1U	Fuse T 6.3 A 250 V
FU1, FU2	Fuse T 3.15 A 250 V
FU3	Fuse T 30 A 250 V
H	* Connector
IPM	* Intelligent power module
L	Connector
LED A	Pilot lamp
L	* Reactor
M1C	Compressor motor
M1F	Fan motor
MR	* Magnetic relay
N	Connector
PCB1	Printed circuit board (main)
PS	Switching power supply

Part n°	Description
Q1L	Thermal protector
Q1DI	# Earth leakage circuit breaker
Q	* Insulated gate bipolar transistor (IGBT)
R1T	Thermistor (air)
R2T	Thermistor (heat exchanger)
R3T	Thermistor (discharge)
RTH2	Resistor
S	Connector
S1PH	High pressure switch
S2~80	Connector
SA1	Surge arrestor
SHM	Terminal strip fixed plate
U, V, W	Connector
V3, V4, V401	Varistor
X*A	Connector
X*M	Terminal strip
Y1E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z*C	Noise filter (ferrite core)
Z*F	Noise filter

4D139355E

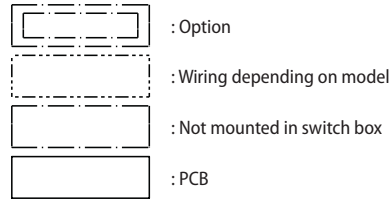
10 Wiring diagrams

10 - 3 Hydro Module - Notes & Legend

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

NOTES to go through before starting the unit

- X1M : Main terminal
X2M : Field wiring terminal for AC
X3M : External backup heater 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



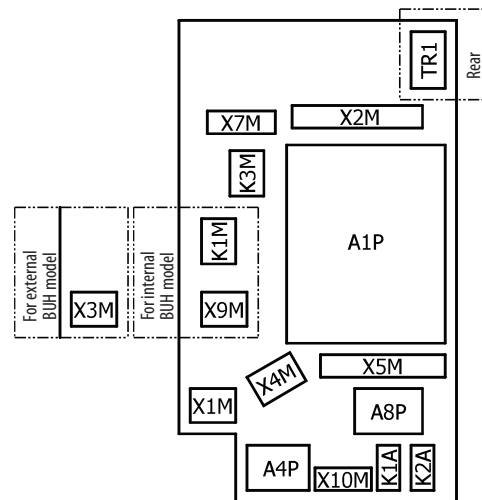
NOTES

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

Backup heater power supply

- User installed options:
- ☐ Domestic hot water tank
 - ☐ External backup heater
 - ☐ Booster heater
 - ☐ Remote user interface
 - ☐ Ext. indoor thermistor
 - ☐ Ext. outdoor thermistor
 - ☐ Digital I/O PCB
 - ☐ Demand PCB
 - ☐ Smartgrid kit
 - ☐ Bypass kit
 - ☐ LAN adapter
 - ☐ BZ mixing 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



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)
A30P	* BZ mixing kit PCB
B1L	flow sensor
B1PR	refrigerant pressure 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)
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 backup heater
F2T	thermal fuse booster heater
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)	fuse T 5A 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

Part n°	Description
P1M	MMI display
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	# smart grid 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

* : optional

#: field supply

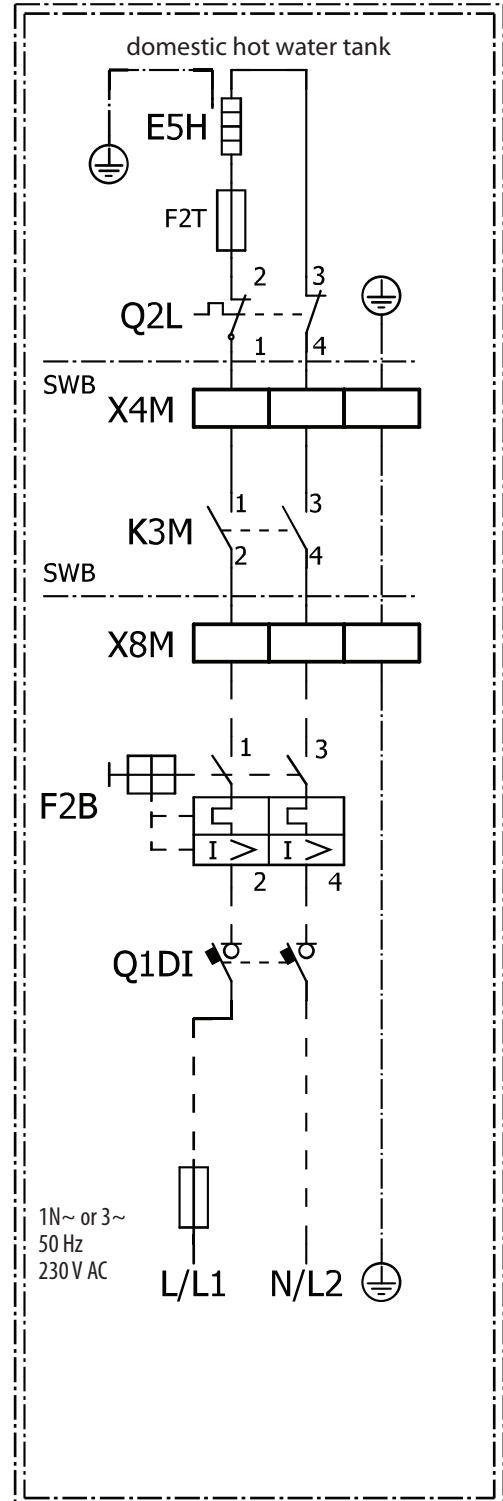
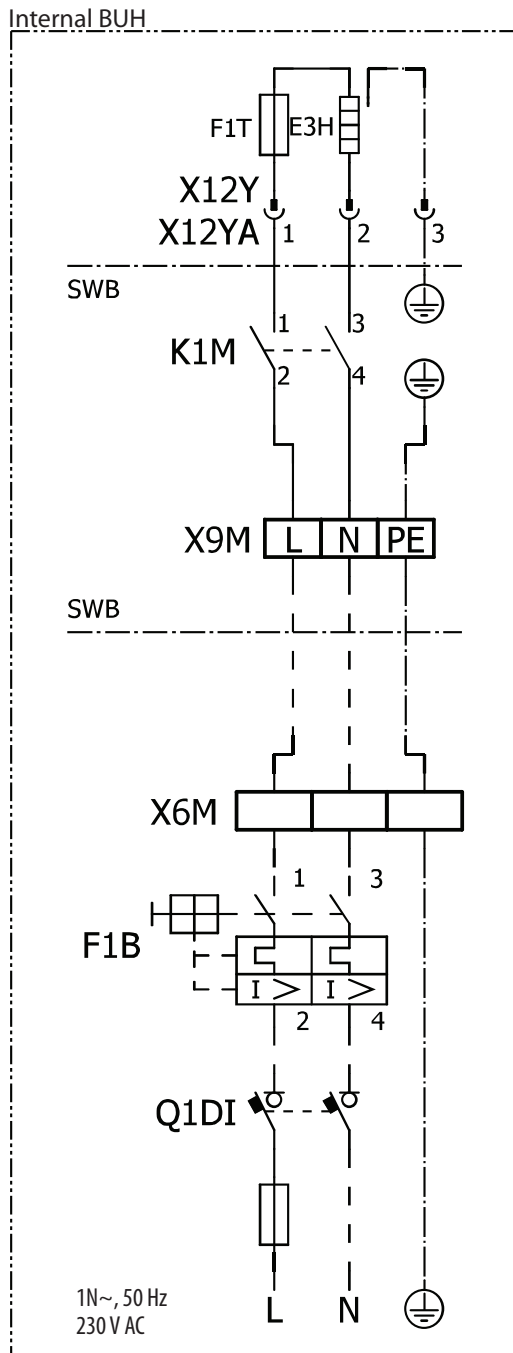
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10 Wiring diagrams

10 - 4 Hydro Module - Power Supply, Back-up Heater

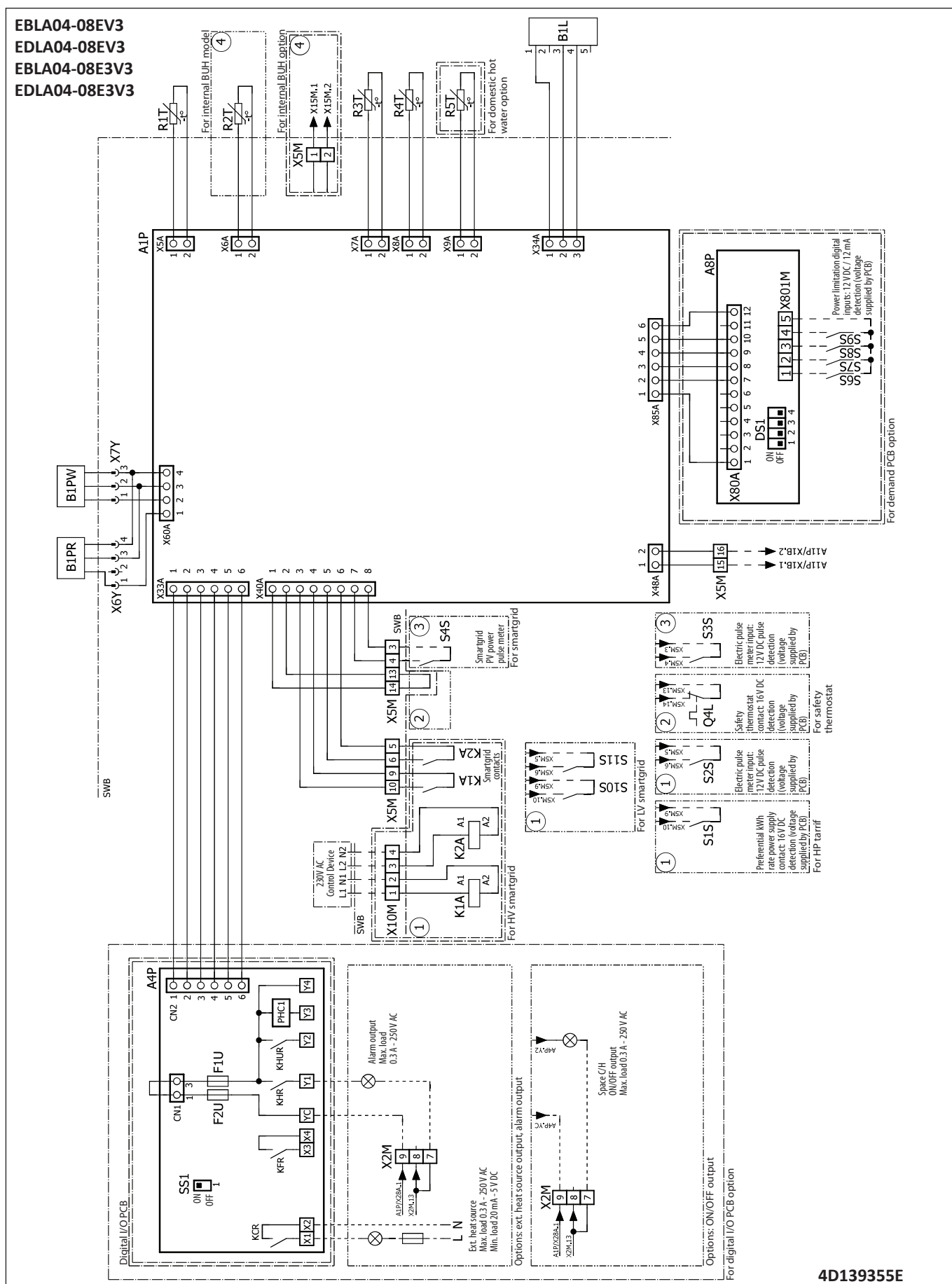
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EBLA04-08EV3
EDLA04-08EV3
EBLA04-08E3V3
EDLA04-08E3V3

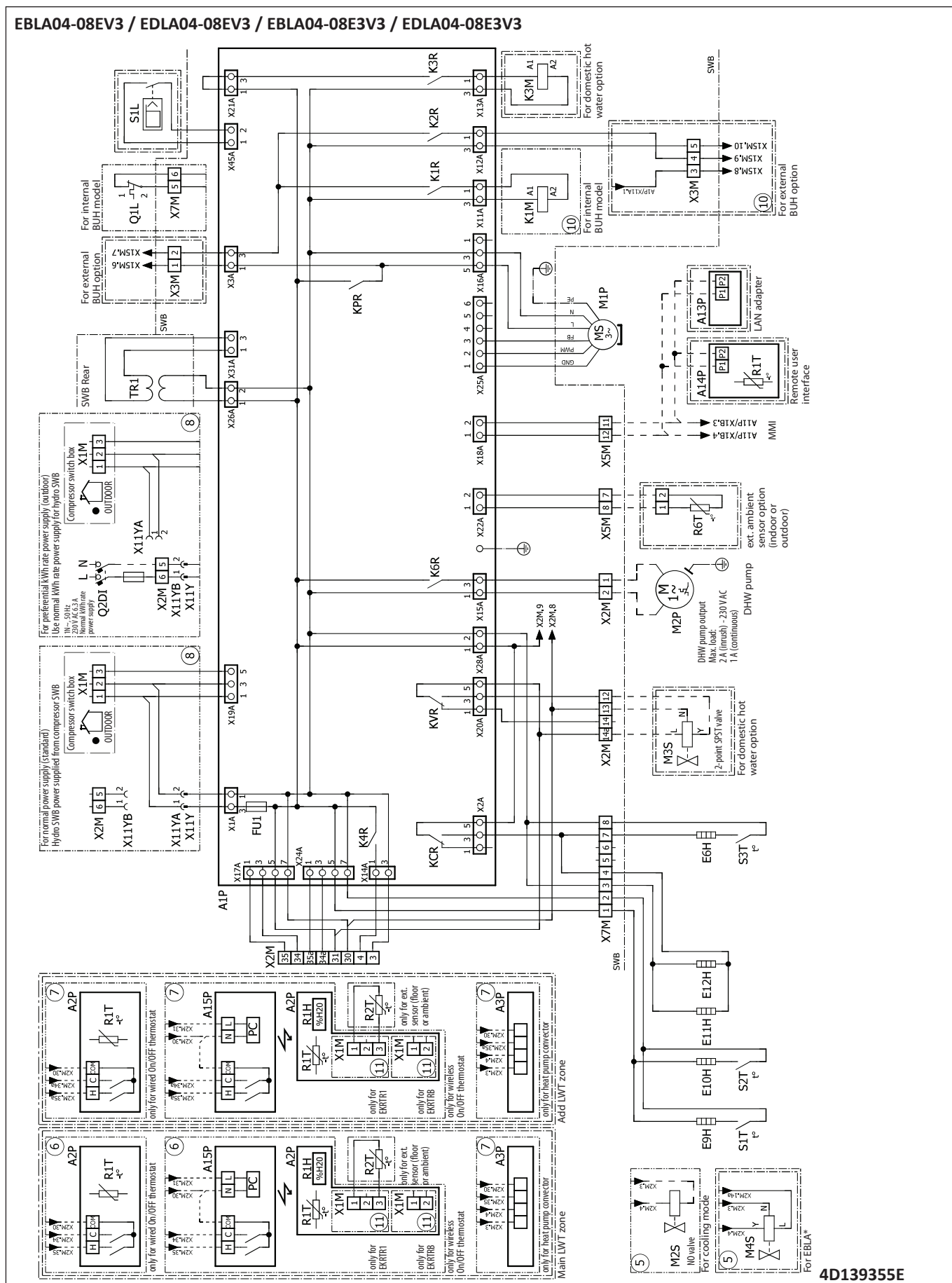


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10



10

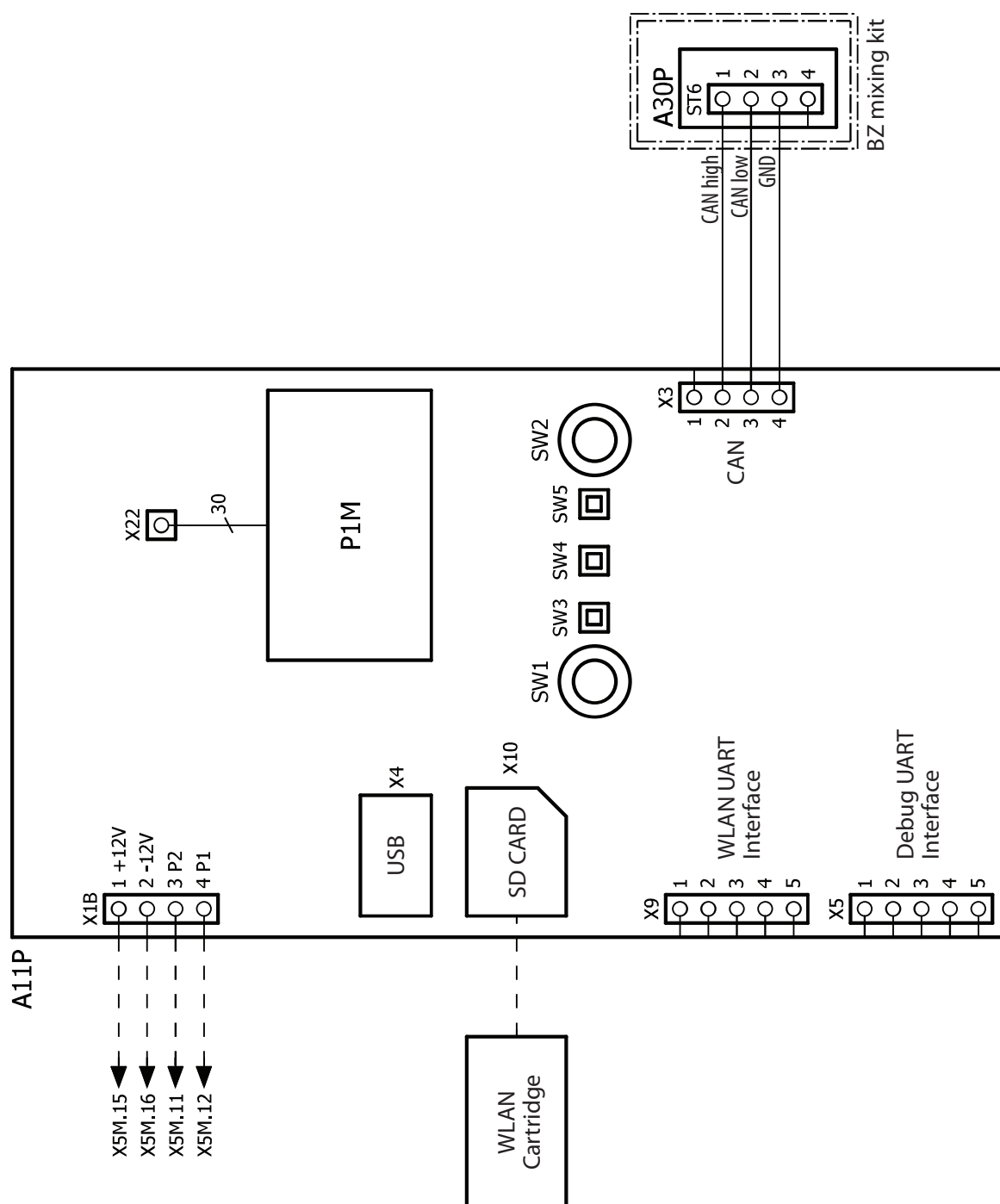


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10 Wiring diagrams

10 - 5 Hydro Module - Control Circuit

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3

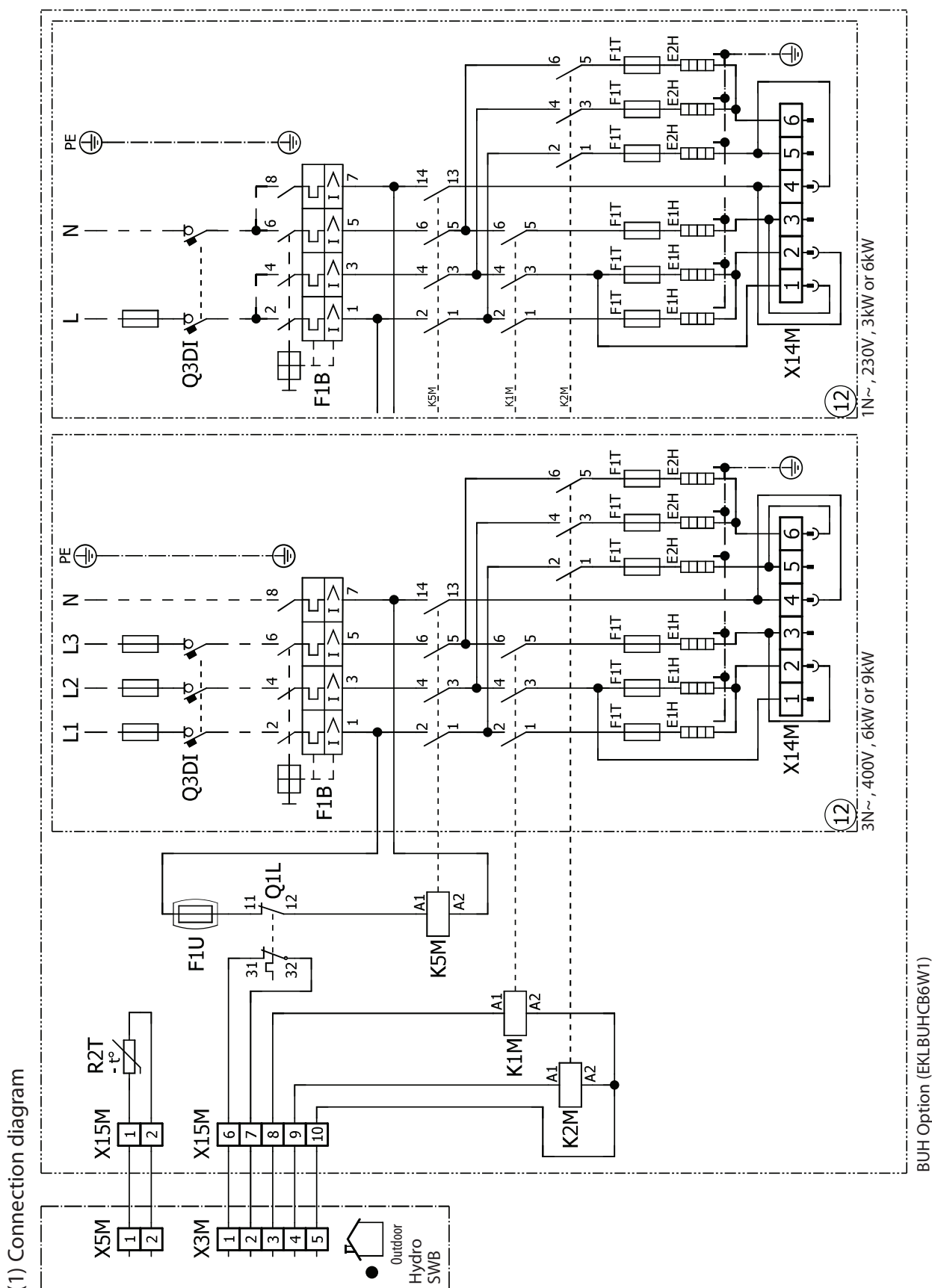


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10 Wiring diagrams

10 - 6 External back-up heater - Option Circuit

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3



4D139355E

11 - 1 External Connection Diagrams

11



- In case of signal cable: keep minimum distance to power cables $> 5\text{ cm}$

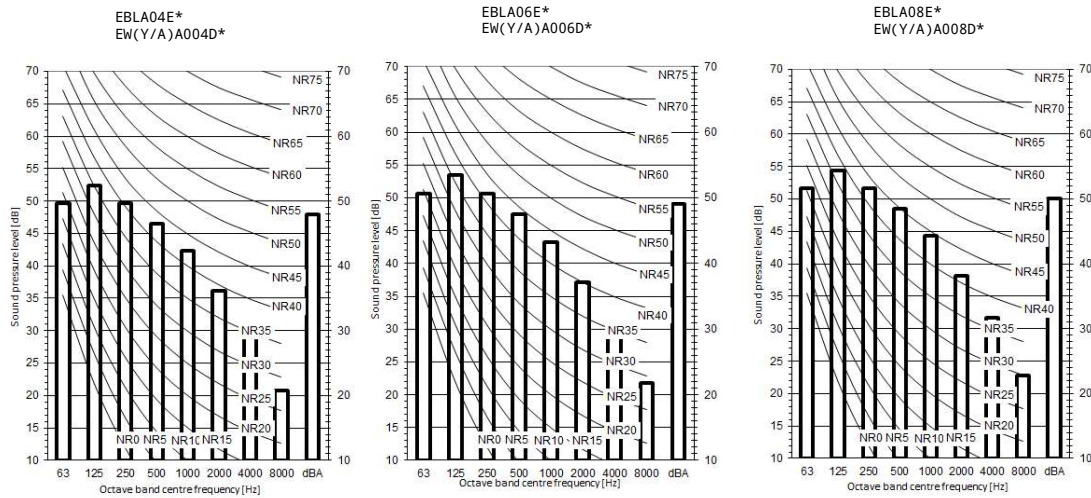
4D139354B

12 Sound data

12 - 1 Sound Pressure Spectrum - Cooling

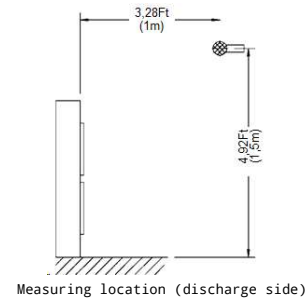
EBLA04-08EV3
EBLA04-08E3V3

Cooling



Notes

- 1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
- 2.Data is valid at nominal operation condition.
- 3.dBA = A-weighted sound pressure level (A scale according to IEC).
- 4.Reference acoustic pressure 0 dB = 20 μ Pa
- 5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



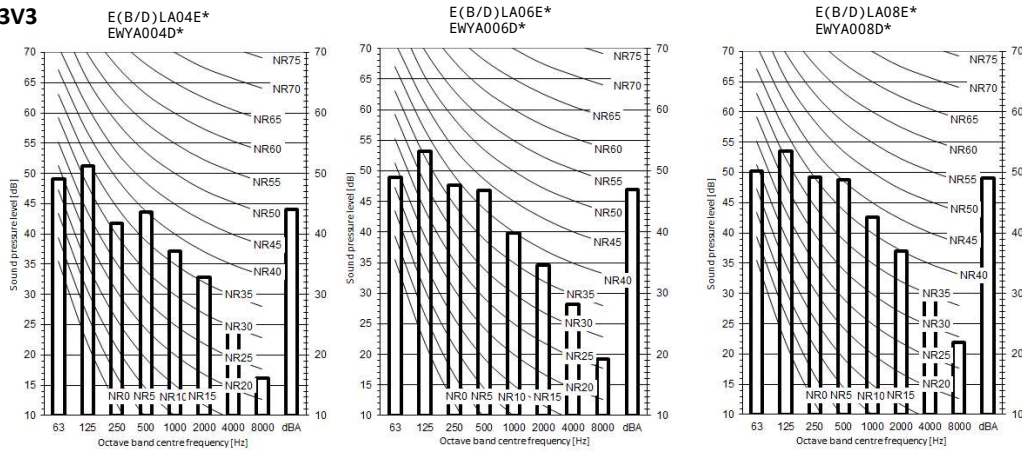
3D140608

12 Sound data

12 - 2 Sound Pressure Spectrum - Heating

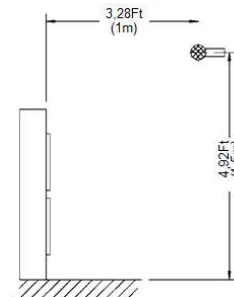
EBLA04-08EV3
EDLA04-08EV3
EBLA04-08E3V3
EDLA04-08E3V3

Heating



Notes

- 1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
- 2.Data is valid at nominal operation condition.
- 3.dBA = A-weighted sound pressure level (A scale according to IEC).
- 4.Reference acoustic pressure 0 dB = 20 μ Pa
- 5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



Measuring location (discharge side)

3D140605

12 Sound data

12 - 3 Sound Pressure Spectrum Quiet Mode

12

EBLA04-08EV3

EDLA04-08EV3

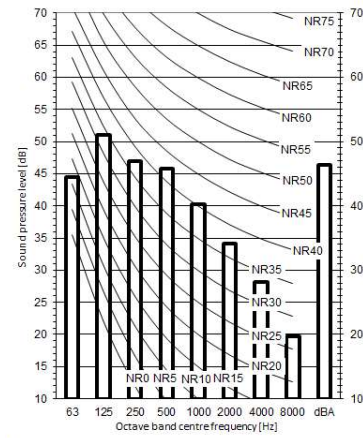
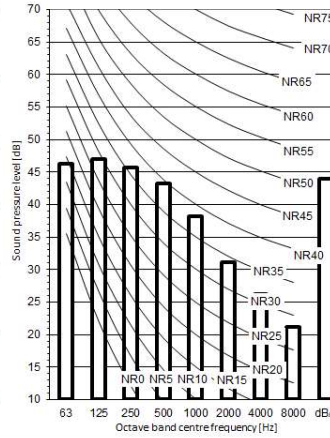
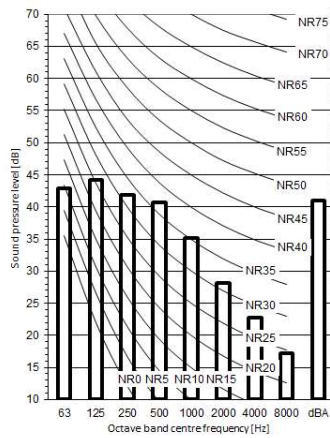
EBLA04-08E3V3

EDLA04-08E3V3

E(B/D)LA04E*
EWYA004D*

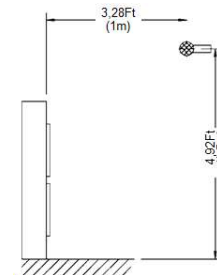
Heating more quiet mode

E(B/D)LA06E*
EWYA006D*

E(B/D)LA08E*
EWYA008D*


Notes

- 1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
- 2.Data is valid at nominal operation condition.
- 3.dBA = A-weighted sound pressure level (A scale according to IEC).
- 4.Reference acoustic pressure 0 dB = 20 μ Pa
- 5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



Measuring location (discharge side)

3D140606

EBLA04-08EV3

EDLA04-08EV3

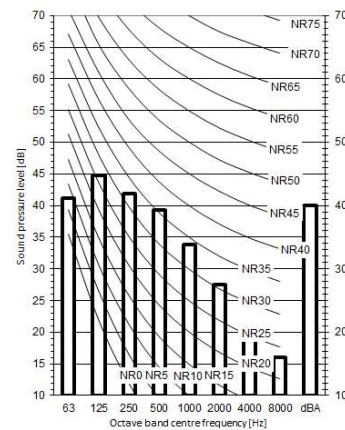
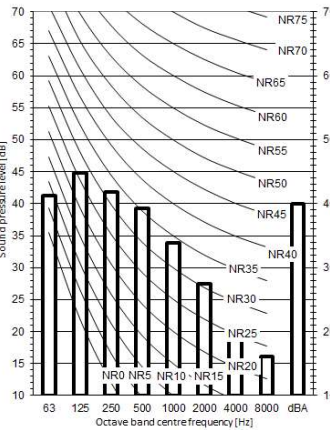
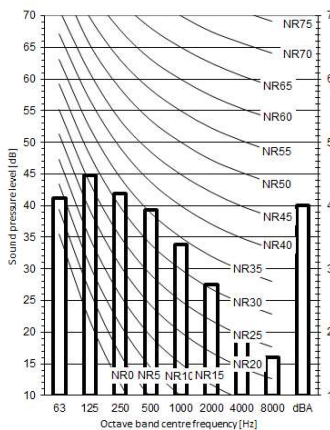
EBLA04-08E3V3

EDLA04-08E3V3

E(B/D)LA04E*
EWYA004D*

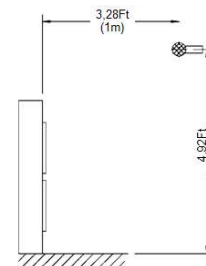
Heating most quiet mode

E(B/D)LA06E*
EWYA006D*

E(B/D)LA08E*
EWYA008D*


Notes

- 1.Data is valid at free field condition.
Measured in a semi-anechoic chamber
- 2.Data is valid at nominal operation condition.
- 3.dBA = A-weighted sound pressure level (A scale according to IEC).
- 4.Reference acoustic pressure 0 dB = 20 μ Pa
- 5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



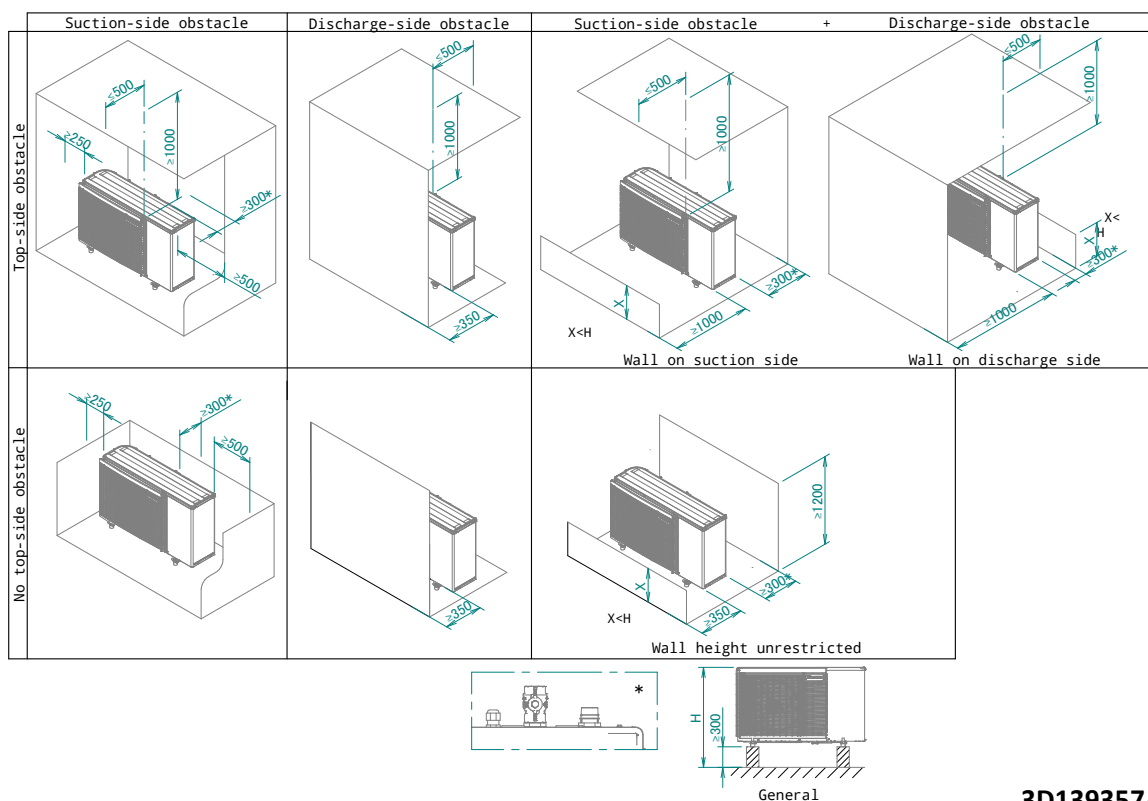
Measuring location (discharge side)

3D140607

13 Installation

13 - 1 Installation Method

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3



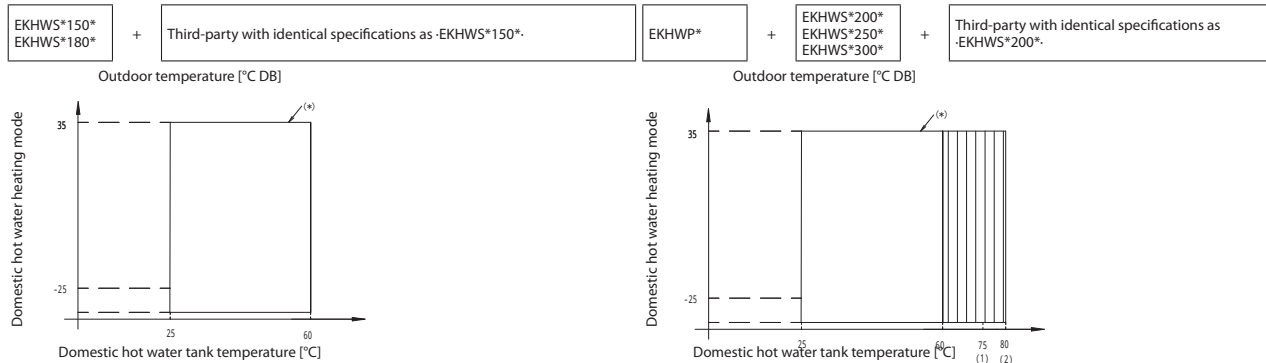
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14 Operation range

14 - 1 Operation Range

14

EBLA04-08EV3 / EDLA04-08EV3 / EBLA04-08E3V3 / EDLA04-08E3V3



LEGEND

* System operation: the system consists of an outdoor unit and indoor unit, and depending on the system, a booster heater and/or a backup heater.

REMARK

If the outdoor temperature $< -20^{\circ}\text{C}$, then outdoor unit operation is possible, but with a possible capacity reduction.
If the outdoor temperature $< -25^{\circ}\text{C}$, the outdoor unit will stop.
Indoor unit and backup heater operation will continue.

NOTES

- In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
- Third-party with identical specifications as -EKHWS*150*.
Coil surface $> 1.05\text{-m}^2$ and $< 3.7\text{-m}^2$
Tank thermistor and booster heater above heat pump coil.
- 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.
- Third-party with identical specifications as -EKHWS*200*.
Coil surface $> 1.8\text{-m}^2$ and $< 3.7\text{-m}^2$
Tank thermistor and booster heater above heat pump coil.

LEGEND

▨ Booster heater only operation (if a booster heater is part of the system)

(1) Combination of EKHWS*

(2) Combination of EKHWP*

* System operation: the system consists of an outdoor unit and indoor unit, and depending on the system, a booster heater and/or a backup heater.

REMARK

If the outdoor temperature $< -20^{\circ}\text{C}$, then outdoor unit operation is possible, but with a possible capacity reduction.
If the outdoor temperature $< -25^{\circ}\text{C}$, the outdoor unit will stop.
Indoor unit and backup heater operation will continue.

NOTES

- In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
- Third-party with identical specifications as -EKHWS*150*.
Coil surface $> 1.05\text{-m}^2$ and $< 3.7\text{-m}^2$
Tank thermistor and booster heater above heat pump coil.
- 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.
- Third-party with identical specifications as -EKHWS*200*.
Coil surface $> 1.8\text{-m}^2$ and $< 3.7\text{-m}^2$
Tank thermistor and booster heater above heat pump coil.

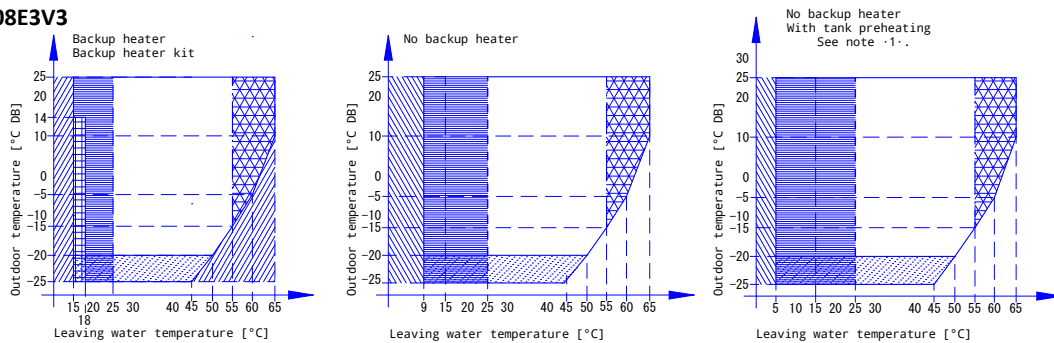
3D139360

EBLA04-08EV3

EDLA04-08EV3

EBLA04-08E3V3

EDLA04-08E3V3



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
- Outdoor unit operation if setpoint $> 55^{\circ}\text{C}$ and $\Delta T = -10^{\circ}\text{C}$ (ΔT = outlet temperature - inlet temperature)

Notes

- Tank preheating
For details, see the installer reference guide.
- 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.
- In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

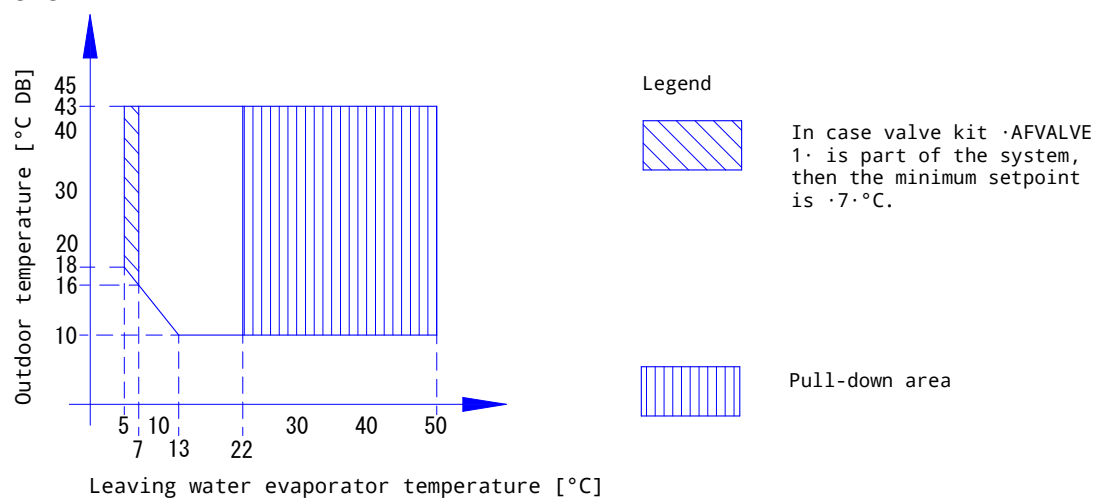
3D139428B

14 Operation range

14 - 1 Operation Range

EBLA04-08EV3

EBLA04-08E3V3



Notes

- 1.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.

3D139430

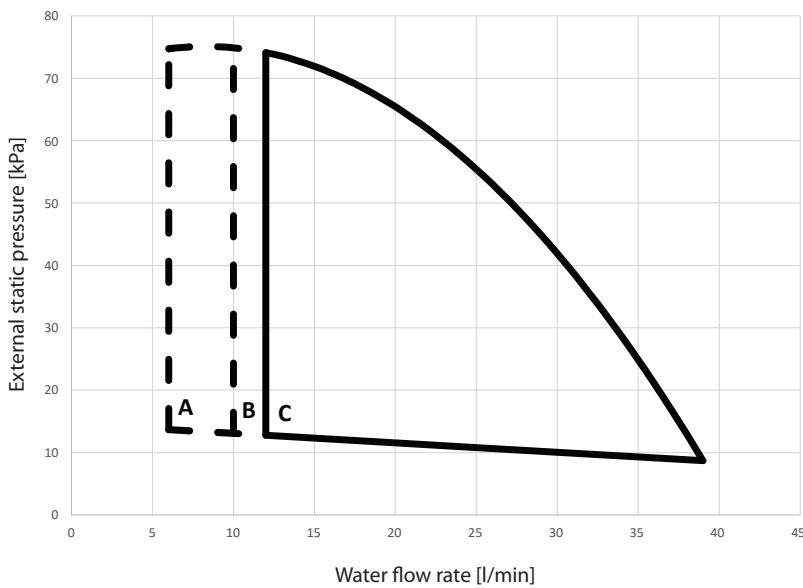
15 Hydraulic performance

15 - 1 Static Pressure Drop Unit

15

EBLA04-08EV3

EDLA04-08EV3



A = Minimum water flow rate during normal operation

B = Minimum water flow rate during Cooling operation

C = Minimum water flow rate during Defrost and Backup heater operation

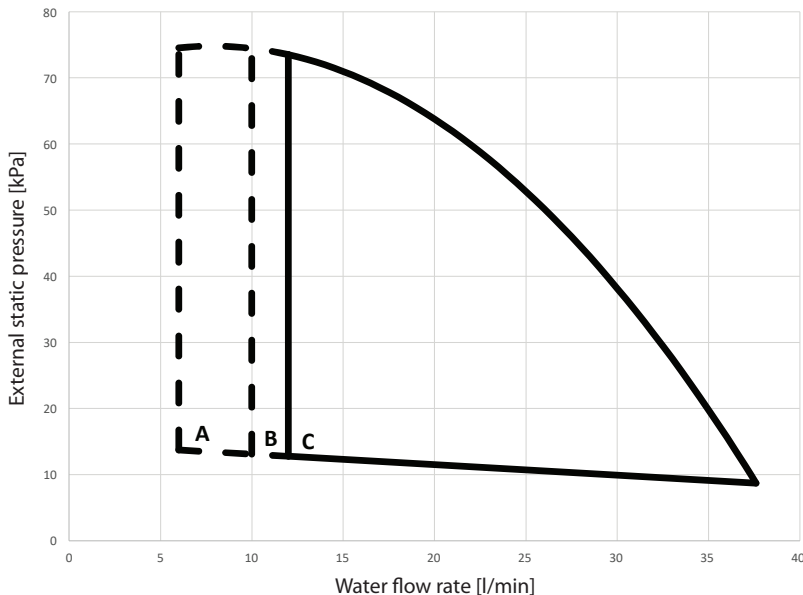
NOTES

1. 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.
2. Water quality must be according to EU directive 2020/2184

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A = Minimum water flow rate during normal operation

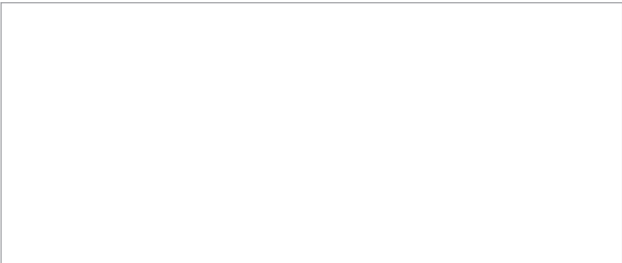
B = Minimum water flow rate during Cooling operation

C = Minimum water flow rate during Defrost and Backup heater operation

NOTES

1. 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.
2. Water quality must be according to EU directive 2020/2184

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