



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





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## 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

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

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- › Built-in electric back-up heater as additional heating during extremely cold outdoor temperature

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# 1 Features

1 - 4 EDLA04-08E3V3

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

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- > Energy efficient heating only system based on air to water heat pump technology
- > Built-in electric back-up heater as additional heating during extremely cold outdoor temperature



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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	88.0						
	Packed unit			kg	95						
Packing	Material				Carton / EPS / Wood (pallet)						
Heat exchanger	Length			mm	920						
	Rows	Quantity			2						
	Fin pitch			mm	1.40						
	Face area			m <sup>2</sup>	0.658						
	Stages	Quantity			32						
	Tube type				ø7 Hi-XD						
	Fin	Type				Waffle Hydrophilic Blue					
		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)						
	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	58.0 (1)	60.0 (1)	62.0 (1)				
	Cooling	Nom.		dBA	61.0 (1)	62.0 (1)					
Sound pressure level	Heating	Nom.		dBA	44.0 (1)	47.0 (1)	49.0 (1)				
	Cooling	Nom.		dBA	48.0 (1)	49.0 (1)	50.0 (1)				
Refrigerant	Type				R-32						
	GWP				675.0						
	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						

## 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					
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)	
Water side Heat exchanger	Insulation material	Kaiflex					
	Heater	W					
Expansion vessel	Volume	l					
	Max. water pressure	bar					
	Pre pressure	bar					
	Heater	W					
Water circuit	Piping connections diameter	inch					
	Piping Max. length	OU - Tank	m	G1" (male)			
	Level difference	Max.	m	10			
	Safety valve	bar					
	Drain valve / fill valve	No					
	Air purge valve	Yes					
	General	Supplier/ Manufacturer details	Name and address Name or trademark				
Product description		Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 30100					
		Daikin Europe N.V.					
		Air-to-water heat pump	Yes				
		Brine-to-water heat pump	No				
		Heat pump combination heater	No				
		Low-temperature heat pump	No				
	Supplementary heater integrated	No					
	Water-to-water heat pump	No					
LW(A) Sound power level (according to EN14825)			dB(A)	58.0	60.0	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 <sup>3</sup> /h	2,280	2,520	2,770	
	Other	Capacity control	Inverter				
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.010			
		Psb (Standby mode)	kW	0.010			
		Pto (Thermostat off)	kW	0.010			
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	6.0	7.0	8.0
			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)		1.0		
			COPd		1.97	1.98	1.96

# 2 Specifications


## 2 - 1 Specifications

Technical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3		
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		
Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	CdH (Degradation heating)		1.0				
			COPd	3.23	3.16	3.20		
			Pdh kW	3.3	3.9	4.4		
			PERd %	129.2	126.4	128.0		
		C Condition (7°CDB/6°CWB)		CdH (Degradation heating)		1.0		
			COPd	4.40	4.49	4.64		
	D Condition (12°CDB/11°CWB)		Pdh kW	3.0		3.3		
			PERd %	176.0	179.6	185.6		
		CdH (Degradation heating)		1.0				
	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	1.90			
		Pdh kW	5.3	6.1	7.5			
		PERd %	78.8	84.8	76.0			
General		Tbiv °C	-7	-6	-8			
	Annual energy consumption kWh		4,446	5,278	6,864			
		ηs (Seasonal space heating efficiency) %	108	109	112			
		Prated at -22°C kW	5.0	6.0	8.0			
Warm climate water outlet 55°C	General	Qhe Annual energy consumption (GCV) GJ		16	19	25		
		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)		1.0			
			COPd	2.11	2.15	2.09		
			Pdh kW	4.7	5.6	6.8		
	C Condition (7°CDB/6°CWB)		PERd %	84.4	86.0	83.6		
		CdH (Degradation heating)		1.0				

# 2 Specifications

## 2 - 1 Specifications

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Technical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3	
Space heating 	Warm climate water outlet	C Condition (7°C <sub>CD</sub> -B/6°C <sub>CWB</sub> )	COPd	3.28	3.45	3.42	
			Pdh kW	3.0	3.6	5.3	
			PERd %	131.2	138.0	136.8	
	55°C	D Condition (12°C <sub>CD</sub> -B/11°C <sub>CWB</sub> )	Cdh (Degradation heating)		1.0		
				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	86.0	106.4	
		Tbiv °C		2		4	
	Average climate water outlet 35°C	General	Annual energy consumption		2,729	3,196	3,588
				η <sub>s</sub> (Seasonal space heating efficiency)	179	178	181
				Prated at -10°C	6.0	7.0	8.0
				Q <sub>he</sub> Annual energy consumption (GCV)	10	12	13
				SCOP	4.54	4.52	4.61
			Seasonal space heating eff. class			A+++	
		A Condition (-7°C <sub>CD</sub> -B/-8°C <sub>CWB</sub> )		COPd	2.90	2.86	2.77
				Pdh kW	5.5	6.0	7.0
				PERd %	116.0	114.4	110.8
		B Condition (2°C <sub>CD</sub> -B/1°C <sub>CWB</sub> )	Cdh (Degradation heating)			1.0	
			COPd	4.33	4.25	4.35	
			Pdh kW	3.3	3.9	4.2	
			PERd %	173.2	170.0	174.0	
C Condition (7°C <sub>CD</sub> -B/6°C <sub>CWB</sub> )	Cdh (Degradation heating)			1.0			
		COPd	6.19	6.30	6.49		
		Pdh kW		3.2	3.3		
		PERd %	247.6	252.0	259.6		
D Condition (12°C <sub>CD</sub> -B/11°C <sub>CWB</sub> )	Cdh (Degradation heating)			1.0			
		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			

# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3	
Space heating 	Average climate water outlet 35°C	Tbiv	COPd	2.90	3.07	2.66	
		(bivalent)	Pdh kW	5.5	6.1	7.5	
		tempera- ture)	PERd %	116.0	122.8	106.4	
	Rated heat output supplementary capacity	Tbiv	°C	-7	-6	-8	
		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	18.0
	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	6.0	7.0
			Qhe Annual energy consumption (GCV)	Gj		4	5
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd		1.0		
			Pdh kW	3.68	3.50	3.28	
			PERd %	5.2	6.0	7.0	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0		
			Pdh kW	5.79	5.92	5.95	
			PERd %	231.6	236.8	238.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0		
Pdh kW			7.78	8.00	8.57		
PERd %			311.2	320.0	342.8		
Tbiv (bivalent temperature)	COPd		3.68	3.50	3.28		
		Pdh kW	5.2	6.0	7.0		
		PERd %	147.2	140.0	131.2		
	Tbiv	°C		2			

Electrical specifications				EBLA04EV3	EBLA06EV3	EBLA08EV3
Pump	Type	Grundfos UPM4L K 15-75 130 9 DKI				
Compressor component	Main power supply	Phase	3N~			
	Voltage		220			
Power supply	Name	V3				
	Phase	1~				
	Frequency	50				
	Voltage	230 +/-10%				
Current	Maximum running current	Heating	A	19.9		24.0
	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)
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	91.0		
	Packed unit		kg	98		

## 2 Specifications

### 2 - 1 Specifications

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Technical specifications					EBLA04E3V3		EBLA06E3V3		EBLA08E3V3		
Packing	Material	Carton / EPS / Wood (pallet)									
Heat exchanger	Length			mm	920						
	Rows	Quantity			2						
	Fin pitch			mm	1.40						
	Face area			m <sup>2</sup>	0.658						
	Stages	Quantity			32						
	Tube type				ø7 Hi-XD						
	Fin	Type				Waffle Hydrophilic Blue					
	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		58.0 (1)	60.0 (1)	62.0 (1)				
	Cooling	Nom.	dBA		61.0 (1)	62.0 (1)	62.0 (1)				
Sound pressure level	Heating	Nom.	dBA		44.0 (1)	47.0 (1)	49.0 (1)				
	Cooling	Nom.	dBA		48.0 (1)	49.0 (1)	50.0 (1)				
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge			kg	1.35						
	Charge			TCO <sub>2</sub> Eq	0.910						
	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 side Heat exchanger	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)				
		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		W	50.0							
	Volume		l	7							
	Max. water pressure		bar	3							
	Pre pressure		bar	1							
	Heater		W	50							

# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3	
Water circuit	Piping connections diameter	inch		G1" (male)			
	Piping Max. length	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 and address		Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 30100			
	Product description	Name or trademark		Daikin Europe N.V.			
		Air-to-water heat pump		Yes			
		Brine-to-water heat pump		No			
		Heat pump combination heater		No			
		Low-temperature heat pump		No			
		Supplementary heater integrated		Yes			
	Water-to-water heat pump		No				
LW(A) Sound power level (according to EN14825)			dB(A)	58.0	60.0	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 <sup>3</sup> /h	2,280	2,520	2,770	
	Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.010			
		Psb (Standby mode)	kW	0.010			
		Pto (Thermostat off)	kW	0.010			
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	6.0	7.0	8.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	18
			SCOP		3.29	3.28	3.35
			Seasonal space heating eff. class		A++		

# 2 Specifications

## 2 - 1 Specifications


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Technical specifications			EBLA04E3V3	EBLA06E3V3	EBLA08E3V3	
Space heating 	Average climate water outlet 55°C	A Condition (-7°CDB/ -8°CWB)	Cdh (Degradation heating)		1.0	
			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)		1.0	
			COPd	3.23	3.16	3.20
			Pdh kW	3.3	3.9	4.4
		PERd %	129.2	126.4	128.0	
		C Condition (7°CDB/ 6°CWB)	Cdh (Degradation heating)		1.0	
			COPd	4.40	4.49	4.64
			Pdh kW		3.0	3.3
		PERd %	176.0	179.6	185.6	
	D Condition (12°CDB/ 11°CWB)	Cdh (Degradation heating)		1.0		
		COPd		6.10	6.22	
		Pdh kW		3.3	4.1	
	PERd %		244.0	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)	2.01	1.64	0.95	
	Tbiv (bivalent temperature)	COPd	1.97	2.12	1.90	
		Pdh kW	5.3	6.1	7.5	
PERd %		78.8	84.8	76.0		
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	5.0	6.0	8.0	
		Qhe Annual energy consumption (GCV) GJ	16	19	25	
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)		1.0			
	COPd	2.11	2.15	2.09		
	Pdh kW	4.7	5.6	6.8		



# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3		
Space heating 	Warm climate water outlet	B Condition (2°C-D- B/1°CWB)	PERd %	84.4	86.0	83.6		
		C Condition (7°C-D- B/6°CWB)	Cdh (Degradation heating)		1.0			
	55°C	C Condition (7°C-D- B/6°CWB)	COPd		3.28	3.45	3.42	
			Pdh kW		3.0	3.6	5.3	
			PERd %		131.2	138.0	136.8	
	D Condition (12°C-D- B/11°CWB)	Cdh (Degradation heating)			1.0			
		COPd		5.13	5.48	5.52		
		Pdh kW		3.1	2.3	2.8		
	Tbiv (bivalent temperature)	PERd %		205.2	219.2	220.8		
			Tbiv °C		2		4	
			Tbiv °C					
	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		6.0	7.0	8.0	
			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°C-D- B/-8°CWB)	PERd %	COPd		2.90	2.86	2.77
				Pdh kW		5.5	6.0	7.0
				PERd %		116.0	114.4	110.8
		B Condition (2°C-D- B/1°CWB)	PERd %	Cdh (Degradation heating)			1.0	
				COPd		4.33	4.25	4.35
				Pdh kW		3.3	3.9	4.2
				PERd %		173.2	170.0	174.0
	C Condition (7°C-D- B/6°CWB)	PERd %	Cdh (Degradation heating)			1.0		
			COPd		6.19	6.30	6.49	
			Pdh kW			3.2	3.3	
			PERd %		247.6	252.0	259.6	
	D Condition (12°C-D- B/11°CWB)	PERd %	Cdh (Degradation heating)			1.0		
COPd					7.78	8.52		
Pdh kW					3.3	3.9		
PERd %					311.2	340.8		
Tol (temperature operating limit)	PERd %	COPd		2.56	2.49	2.41		
		Pdh kW		5.22	6.01	6.93		
		PERd %		102.4	99.6	96.4		

# 2 Specifications

## 2 - 1 Specifications

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Technical specifications				EBLA04E3V3	EBLA06E3V3	EBLA08E3V3
Space heating Average climate water outlet 35°C  Cold climate water outlet 35°C  Warm climate water outlet 35°C	Tol (temperature operating limit)	TOL	°C		-10	
		WTOL	°C		35	
	Tbiv (bivalent temperature)	COPd		2.90	3.07	2.66
		Pdh	kW	5.5	6.1	7.5
	Rated heat output supplementary capacity	PERd	%	116.0	122.8	106.4
		Tbiv	°C	-7	-6	-8
	General	Psup (at Tdesign -10°C)	kW	0.78	0.99	1.07
		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	18.0
	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	6.0	7.0
	Qhe Annual energy consumption (GCV)		Gj		4	5
		B Condition (2°C CD- B/1°C CWB)	Cdh (Degradation heating)			1.0
	COPd			3.68	3.50	3.28
	Pdh		kW	5.2	6.0	7.0
		PERd	%	147.2	140.0	131.2
	C Condition (7°C CD- B/6°C CWB)	Cdh (Degradation heating)			1.0	
COPd			5.79	5.92	5.95	
Pdh		kW	3.3	3.9	4.5	
	PERd	%	231.6	236.8	238.0	
D Condition (12°C CD- B/11°C CWB)	Cdh (Degradation heating)			1.0		
	COPd		7.78	8.00	8.57	
Pdh		kW	3.5	2.7	3.3	
	PERd	%	311.2	320.0	342.8	
Tbiv (bivalent temperature)	COPd		3.68	3.50	3.28	
	Pdh	kW	5.2	6.0	7.0	
PERd		%	147.2	140.0	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	Type			3V3		
		Power			1~		
	current supply	Phase				1~	
		Frequency	Hz			50	
	Running current	Voltage	V			230	
Back-up heater		A			13.0		
Voltage range	Min.	%			-10		
	Max.	%			10		
Power supply	Name				V3		
	Phase				1~		
	Frequency	Hz			50		
	Voltage	V			230 +/-10%		
Current	Maximum running current	Heating	A	19.9		24.0	
		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)
				5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
COP						
Casing	Colour					Ivory white
	Material					Zinc coated low carbon steel


# 2 Specifications

## 2 - 1 Specifications

Technical specifications					EDLA04EV3		EDLA06EV3		EDLA08EV3			
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					88.0						
	Packed unit					95						
Packing	Material					Carton / EPS / Wood (pallet)						
Heat exchanger	Length	mm				920						
	Rows	Quantity					2					
	Fin pitch			mm				1.40				
	Face area			m <sup>2</sup>				0.658				
	Stages	Quantity					32					
	Tube type							ø7 Hi-XD				
	Fin	Type							Waffle Hydrophilic Blue			
		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	Ps*V	Bar*l					Compressor			
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	58.0 (1)	60.0 (1)	62.0 (1)					
	Sound pressure level	Heating	Nom.	dBA	44.0 (1)	47.0 (1)	49.0 (1)					
Refrigerant	Type							R-32				
	GWP							675.0				
	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				
	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							Kaiiflex			
	Heater			W				50.0				
	Expansion vessel	Volume			l				7			
Max. water pressure				bar				3				
Pre pressure				bar				1				
Heater				W				50				
Water circuit	Piping connections diameter			inch				G1" (male)				
	Piping length	Max.	OU - Tank	m				10				
		Level difference	Max.	m				5				

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3		
Water circuit	Safety valve	bar			3			
	Drain valve / fill valve				No			
	Air purge valve				Yes			
General	Supplier/ Name and address		Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00					
	Manufacturer details	Name or trademark	Daikin Europe N.V.					
	Product description	Air-to-water heat pump				Yes		
		Brine-to-water heat pump				No		
		Heat pump combination heater				No		
		Low-temperature heat pump				No		
		Supplementary heater integrated				No		
		Water-to-water heat pump				No		
LW(A) Sound power level (according to EN14825)		dB(A)	58.0	60.0	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 <sup>3</sup> /h	2,280	2,520	2,770		
		Capacity control			Inverter			
	Other	Pck (Crankcase heater mode)	kW		0.000			
		Poff (Off mode)	kW		0.010			
		Psb (Standby mode)	kW		0.010			
		Pto (Thermostat off)	kW		0.010			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,806	4,441	4,975	
			$\eta_s$ (Seasonal space heating efficiency)	%		127		130
		Prated at -10°C	kW	6.0	7.0	8.0		
		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)	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)	COPd		3.23	3.16	3.20	
			Pdh	kW	3.3	3.9	4.4	
			PERd	%	129.2	126.4	128.0	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		4.40	4.49	4.64	
			Pdh	kW		3.0	3.3	
			PERd	%	176.0	179.6	185.6	

# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3			
Space heating 	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0					
			COPd	6.10		6.22			
			Pdh kW	3.3		4.1			
			PERd %	244.0		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	1.90		
				Pdh kW	5.3	6.1	7.5		
		PERd %		78.8	84.8	76.0			
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	4,468	5,300	6,886		
			ηs (Seasonal space heating efficiency)	%	107	109	112		
			Prated at -22°C	kW	5.0	6.0	8.0		
			Qhe Annual energy consumption (GCV)	Gj	16	19	25		
			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/1°CWB)		Cdh (Degradation heating)	1.0					
			COPd	2.11	2.15	2.09			
			Pdh kW	4.7	5.6	6.8			
PERd %			84.4	86.0	83.6				
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	1.0						
		COPd	3.28	3.45	3.42				
		Pdh kW	3.0	3.6	5.3				
		PERd %	131.2	138.0	136.8				
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	1.0						
		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	86.0	106.4				

# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EDLA04EV3	EDLA06EV3	EDLA08EV3
Space heating	Warm climate water outlet 55°C Average climate water outlet 35°C Cold climate water outlet 35°C Warm climate water outlet 35°C Space heating Warm climate water outlet 35°C	Tbiv (bivalent temperature)	°C	2		4
		General	Annual energy consumption kWh	2,766	3,233	3,625
		General	ηs (Seasonal space heating efficiency) %	176		179
		General	Prated at -10°C kW	6.0	7.0	8.0
		General	Qhe Annual energy consumption (GCV) GJ	10	12	13
		General	SCOP	4.48	4.47	4.56
		General	Seasonal space heating eff. class	A+++		
		A Condition (-7°CDB/8°CWB)	COPd	2.90	2.86	2.77
		A Condition (-7°CDB/8°CWB)	Pdh kW	5.5	6.0	7.0
		A Condition (-7°CDB/8°CWB)	PERd %	116.0	114.4	110.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0
		B Condition (2°CDB/1°CWB)	COPd	4.33	4.25	4.35
		B Condition (2°CDB/1°CWB)	Pdh kW	3.3	3.9	4.2
		B Condition (2°CDB/1°CWB)	PERd %	173.2	170.0	174.0
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0
		C Condition (7°CDB/6°CWB)	COPd	6.19	6.30	6.49
		C Condition (7°CDB/6°CWB)	Pdh kW	3.2		3.3
		C Condition (7°CDB/6°CWB)	PERd %	247.6	252.0	259.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0
		D Condition (12°CDB/11°CWB)	COPd	7.78		8.52
		D Condition (12°CDB/11°CWB)	Pdh kW	3.3		3.9
		D Condition (12°CDB/11°CWB)	PERd %	311.2		340.8
		Tol (temperature operating limit)	COPd	2.56	2.49	2.41
		Tol (temperature operating limit)	Pdh kW	5.22	6.01	6.93
		Tol (temperature operating limit)	PERd %	102.4	99.6	96.4
		Tol (temperature operating limit)	TOL °C			-10
		Tol (temperature operating limit)	WTOL °C			35
Tbiv (bivalent temperature)	COPd	2.90	3.07	2.66		
Tbiv (bivalent temperature)	Pdh kW	5.5	6.1	7.5		
Tbiv (bivalent temperature)	PERd %	116.0	122.8	106.4		
Tbiv (bivalent temperature)	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	
	General	ηs (Seasonal space heating efficiency) %	150	155	154	
	General	Prated at -22°C kW	5	6	8	
	General	Qhe Annual energy consumption (GCV) GJ	11.6	13.5	18.1	
Warm climate water outlet 35°C	General	Annual energy consumption kWh	1,139	1,276	1,437	
	General	ηs (Seasonal space heating efficiency) %	241	249	257	
	General	Prated at 2°C kW	5.2	6.0	7.0	
	General	Qhe Annual energy consumption (GCV) GJ	4	5		
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0		
	COPd	3.68	3.50	3.28		
	Pdh kW	5.2	6.0	7.0		
	PERd %	147.2	140.0	131.2		
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
	COPd	5.79	5.92	5.95		
	Pdh kW	3.3	3.9	4.5		
	PERd %	231.6	236.8	238.0		
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0		
	COPd	7.78	8.00	8.57		
	Pdh kW	3.5	2.7	3.3		
	PERd %	311.2	320.0	342.8		
Tbiv (bivalent temperature)	COPd	3.68	3.50	3.28		
	Pdh kW	5.2	6.0	7.0		
	PERd %	147.2	140.0	131.2		
	Tbiv °C			2		

# 2 Specifications

## 2 - 1 Specifications

Electrical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Pump	Type	Grundfos UPM4L K 15-75 130 9 DKI				
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	24.0	
	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	Step1	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			
Weight	Unit	kg		91.0			
	Packed unit	kg		98			
Packing	Material	Carton / EPS / Wood (pallet)					
Heat exchanger	Length	mm		920			
	Rows	Quantity	2				
	Fin pitch	mm		1.40			
	Face area	m <sup>2</sup>		0.658			
	Stages	Quantity	32				
	Tube type	ø7 Hi-XD					
	Fin	Type	Waffle Hydrophilic Blue				
		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				
PED	Most critical part	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)		
	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	58.0 (1)	60.0 (1)	62.0 (1)	
Sound pressure level	Heating	Nom.	dBA	44.0 (1)	47.0 (1)	49.0 (1)	
Refrigerant	Type	R-32					
	GWP	675.0					
	Charge	kg		1.35			
	Control	Expansion valve					
	Circuits	Quantity	1				
Refrigerant oil	Type	FW68DA					
	Charged volume	l		1.1			
Defrost method	Reversed cycle						

# 2 Specifications

## 2 - 1 Specifications


2

Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3		
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				
	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		50.0				
Expansion vessel	Volume	l		7				
	Max. water pressure	bar		3				
	Pre pressure	bar		1				
	Heater	W		50				
Water circuit	Piping connections diameter	inch		G1" (male)				
	Piping length	Max.	OU - Tank	m	10			
Water circuit	Level difference	Max.	m		5			
	Safety valve			bar				
	Drain valve / fill valve			No				
	Air purge valve			Yes				
General	Supplier/ Manufacturer details	Name and address		Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00				
	Product description	Name or trademark		Daikin Europe N.V.				
		Air-to-water heat pump			Yes			
		Brine-to-water heat pump			No			
		Heat pump combination heater			No			
		Low-temperature heat pump			No			
		Supplementary heater integrated			Yes			
		Water-to-water heat pump			No			
LW(A) Sound power level (according to EN14825)			dB(A)	58.0	60.0	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 <sup>3</sup> /h		2,280	2,520	2,770	
	Other	Capacity control			Inverter			
		Pck (Crankcase heater mode)	kW		0.000			
		Poff (Off mode)	kW		0.010			
		Psb (Standby mode)	kW		0.010			
		Pto (Thermostat off)	kW		0.010			
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	6.0	7.0	8.0	
			Qhe Annual energy consumption (GCV)	Gj	14	16	18	
			SCOP			3.26		3.32
			Seasonal space heating eff. class			A++		
		A Condition (-7°CDB)	Cdh (Degradation heating)			1.0		
			COPd			1.97	1.98	1.96
		B/-8°CWB)	Pdh	kW		5.3	5.9	6.9
			PERd	%		78.8	79.2	78.4
	B Condition (2°CDB)	Cdh (Degradation heating)			1.0			
		COPd			3.23	3.16	3.20	
	B/1°CWB)	Pdh	kW		3.3	3.9	4.4	
		PERd	%		129.2	126.4	128.0	
C Condition (7°CDB)	Cdh (Degradation heating)			1.0				
	COPd			4.40	4.49	4.64		
B/6°CWB)	Pdh	kW		3.0		3.3		



# 2 Specifications

## 2 - 1 Specifications

Technical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3	
Space heating 	Average climate water outlet 55°C	C Condition (7°C <sub>CD</sub> -B/6°C <sub>CWB</sub> )	PERd %	176.0	179.6	185.6	
		D Condition (12°C <sub>CD</sub> -B/11°C <sub>CWB</sub> )	Cdh (Degradation heating)		1.0		
	Tol (temperature operating limit)		COPd		6.10		6.22
			Pdh kW		3.3		4.1
			PERd %		244.0		248.8
			TOL °C			-10	
	Rated heat output supplementary capacity		WTOL °C			55	
			Psup (at Tdesign -10°C) kW		2.01	1.64	0.95
			Tbiv (bivalent temperature)	COPd	1.97	2.12	1.90
			Pdh kW	5.3	6.1	7.5	
	Cold climate water outlet 55°C	General	PERd %	78.8	84.8	76.0	
			Tbiv °C	-7	-6	-8	
			Annual energy consumption kWh	4,468	5,300	6,886	
			ηs (Seasonal space heating efficiency) %	107	109	112	
	Warm climate water outlet 55°C	General	Prated at -22°C kW	5.0	6.0	8.0	
			Qhe Annual energy consumption (GCV) GJ	16	19	25	
			Annual energy consumption kWh	1,660	1,858	2,669	
			ηs (Seasonal space heating efficiency) %	148	158	159	
	B Condition (2°C <sub>CD</sub> -B/1°C <sub>CWB</sub> )		Prated at 2°C kW	4.7	5.6	8.1	
			Qhe Annual energy consumption (GCV) GJ	6	7	10	
Cdh (Degradation heating)				1.0			
COPd			2.11	2.15	2.09		
C Condition (7°C <sub>CD</sub> -B/6°C <sub>CWB</sub> )		Pdh kW	4.7	5.6	6.8		
		PERd %	84.4	86.0	83.6		
		Cdh (Degradation heating)		1.0			
		COPd	3.28	3.45	3.42		
D Condition (12°C <sub>CD</sub> -B/11°C <sub>CWB</sub> )		Pdh kW	3.0	3.6	5.3		
		PERd %	131.2	138.0	136.8		
		Cdh (Degradation heating)		1.0			
		COPd	5.13	5.48	5.52		
Tbiv (bivalent temperature)		Pdh kW	3.1	2.3	2.8		
		PERd %	205.2	219.2	220.8		
		COPd	2.11	2.15	2.66		
		Pdh kW	4.7	5.6	6.9		

# 2 Specifications

## 2 - 1 Specifications

2

Technical specifications					EDLA04E3V3	EDLA06E3V3	EDLA08E3V3			
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	PERd	%	84.4	86.0	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	6.0	7.0	8.0			
			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°C-D- B/-8°CWB)	COPd		2.90	2.86	2.77		
				Pdh	kW	5.5	6.0	7.0		
				PERd	%	116.0	114.4	110.8		
				Cdh (Degradation heating)			1.0			
B Condition (2°C-D- B/1°CWB)			COPd		4.33	4.25	4.35			
			Pdh	kW	3.3	3.9	4.2			
			PERd	%	173.2	170.0	174.0			
C Condition (7°C-D- B/6°CWB)			Cdh (Degradation heating)			1.0				
			COPd		6.19	6.30	6.49			
			Pdh	kW		3.2	3.3			
D Condition (12°C-D- B/11°CWB)			PERd	%	247.6	252.0	259.6			
			Cdh (Degradation heating)			1.0				
			COPd			7.78		8.52		
Tol (temperature operating limit)			Pdh	kW		3.3	3.9			
			PERd	%		311.2	340.8			
			WTOL	°C			35			
Tbiv (bivalent temperature)			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				
Rated heat output supplementary capacity			WTOL	°C		35				
			COPd		2.90	3.07	2.66			
			Pdh	kW	5.5	6.1	7.5			
			PERd	%	116.0	122.8	106.4			
Cold climate water outlet 35°C	General		Tbiv	°C	-7	-6	-8			
			Psup (at Tdesign -10°C)	kW	0.78	0.99	1.07			
			Annual energy consumption	kWh	3,230	3,749	5,034			
			ηs (Seasonal space heating efficiency)	%	150	155	154			
Space heating	Warm climate water outlet 35°C	General	Prated at -22°C	kW	5	6	8			
			Qhe Annual energy consumption (GCV)	Gj	11.6	13.5	18.1			
			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	6.0	7.0			
			Qhe Annual energy consumption (GCV)	Gj	4		5			
			B Condition (2°C-D- B/1°CWB)			Cdh (Degradation heating)			1.0	
						COPd		3.68	3.50	3.28
						Pdh	kW	5.2	6.0	7.0
			C Condition (7°C-D- B/6°CWB)			PERd	%	147.2	140.0	131.2
Cdh (Degradation heating)						1.0				
COPd		5.79				5.92	5.95			
D Condition (12°C-D- B/11°CWB)			Pdh	kW	3.3	3.9	4.5			
			PERd	%	231.6	236.8	238.0			
			Cdh (Degradation heating)			1.0				
Tbiv (bivalent temperature)			COPd		7.78	8.00	8.57			
			Pdh	kW	3.5	2.7	3.3			
			PERd	%	311.2	320.0	342.8			
Tbiv (bivalent temperature)			COPd		3.68	3.50	3.28			
			Pdh	kW	5.2	6.0	7.0			
			PERd	%	147.2	140.0	131.2			
			Tbiv	°C		2				

## 2 Specifications

### 2 - 1 Specifications

Electrical specifications				EDLA04E3V3	EDLA06E3V3	EDLA08E3V3
Pump	Type	Grundfos UPM4L K 15-75 130 9 DKI				
Compressor component	Main power supply	Phase		3N~		
		Voltage	V	220		
Hydraulic component	Back-up heater	Type		3V3		
		Power supply	Phase	1~		
	current	Frequency	Hz	50		
		Voltage	V	230		
		Running Back-up heater current	A	13.0		
	Voltage range	Min.	%	-10		
Max.		%	10			
Power supply	Name	V3				
	Phase	1~				
	Frequency	Hz	50			
	Voltage	V	230 +/-10%			
Current	Maximum running current	Heating	A	19.9		24.0
		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

3

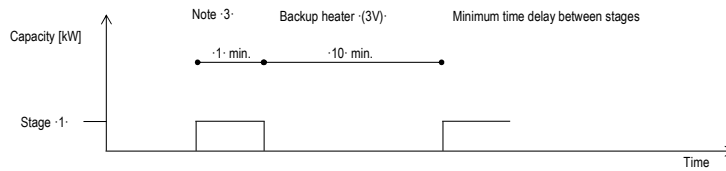
EBLA04-08E3V3

EDLA04-08E3V3

### Electrical specifications

<b>Backup heater</b>	Type			<b>3V</b>	
	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	-	
Minimum Ssc value			kVA	-	

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

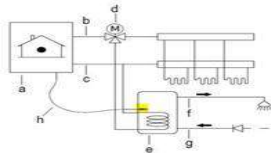
Reference	Description	Notes	E(B/D)LA(04/06/08)*			
			No backup heater		Backup heater	
			Heating only	Reversible	Heating only	Reversible
			EDLA(04/06/08)E2V3	EBLA(04/06/08)E2V3	EDLA(04/06/08)E23V3	EBLA(04/06/08)E23V3
EKRPIHBAA	Digital I/O PCB	(1)	o	o	o	o
EKRPIAHTA	Demand PCB		o	o	o	o
BRC1HHDA*	Remote user interface		o	o	o	o
BRPO69A61	LAN adapter with solar connectivity		o	o	o	o
BRPO69A62	LAN adapter		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
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
EKBUHC6W	Backup heater kit	(7)	o	o	o	o
EKMBHP1	Valve kit	(7)	o	o	-	-
EKFLSW2	Flow switch	(8)	o	o	o	o
AFVALVE1	Freeze protection valve		o	o	o	o
FWXV10-15-20ABTV3*	Heat pump convactor	Floor standing unit	o	o	o	o
FWXT10-15-20ABTV3*	Heat pump convactor	Wall mounted type	o	o	o	o
FWXM10-15-20ATV3*	Heat pump convactor	Cancelled ceiling	o	o	o	o
EKHWS150D3V3	Domestic hot water tank -LT 150   1*230V-		o	o	o	o
EKHWS180D3V3	Domestic hot water tank -LT 180   1*230V-		o	o	o	o
EKHWS200D3V3	Domestic hot water tank -LT 200   1*230V-		o	o	o	o
EKHWS250D3V3	Domestic hot water tank -LT 250   1*230V-		o	o	o	o
EKHWS300D3V3	Domestic hot water tank -LT 300   1*230V-		o	o	o	o
EKHWSU150D3V3	Domestic hot water tank -LT 150   1*230V-	(only for UK) (9)	o	o	o	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 - un-mixed pump ground	(13)	o	o	o	o
EKMIKBVAF	Balancing vessel		o	o	o	o
EKMIKDIAF	Distributor for balancing vessel	(14)	o	o	o	o
EKRRTWA	Wired room thermostat		o	o	o	o
EKRTR1, EKTRTB	Wireless room thermostat		o	o	o	o
EKRTE1S	External temperature sensor option kit	(15)	o	o	o	o
EKTES1	Temperature sensor DHW	(16)	o	o	o	o
EKTES2	Temperature sensor DHW	(17)	o	o	o	o
EKWUFHTA1V3	Multi zoning kit		o	o	o	o

**Notes**

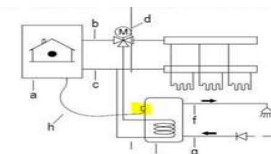
- (1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- (3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- (7) Necessity to install a bypass kit -EKMBHP1- to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.
- (8) -EKFLSW2- is obligatory for Monoblock & Mini-chiller in case Glycol is used.
- (9) Only possible in combination with -EKEXPVES-
- (10) Domestic hot water tank with solar connection. Dedicated connection kit available. Other options EKSP4A\* 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) The installation of -EKPRHLT\* is mandatory.
- (13) Only possible in combination with -EKMIKPOAF-
- (14) Only possible in combination with -EKMIKBVAF- and -EKMIKPHAF- or -EKMIKHUAF-
- (15) Can only be used in combination with the wireless room thermostat.
- (16) Only in combination with -EKHWS\*.
- (17) Only in combination with -EKHWP\*.

**Notes**

- (4) -EKH3PART- can be used if you have a tank in which you can insert a thermistor.



- (5) -EKH3PART2- can be used if you have a tank in which you cannot insert a thermistor.



- (6) Conditions for third-party tank

Third-party with identical specifications as -EKHWS\*.  
 Coil surface >1.05-m<sup>2</sup> and <3.7 m<sup>2</sup>  
 Tank thermistor and booster heater above heat pump coil.

**Remark**

Other combinations than mentioned in this combination table are prohibited.

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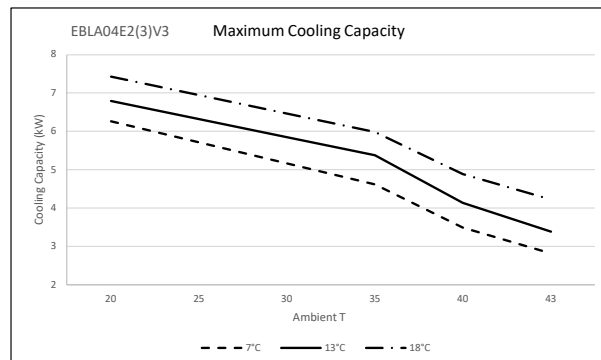
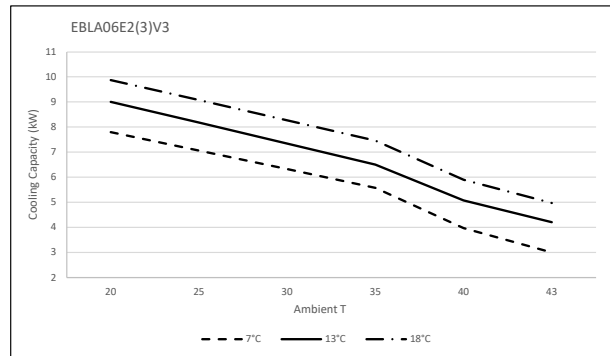
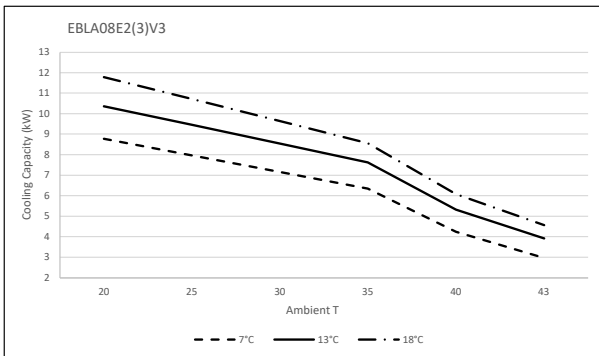
# 5 Capacity graphs

## 5 - 1 Cooling Capacity Graphs

5

### EBLA04-08EV3

### EBLA04-08E3V3



**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  $7^{\circ}\text{C}$  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**

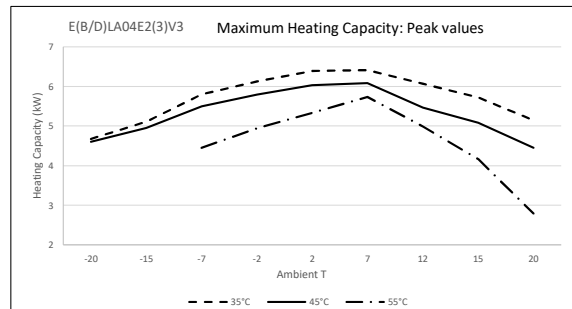
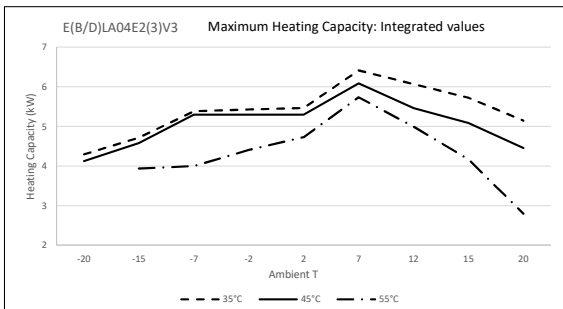
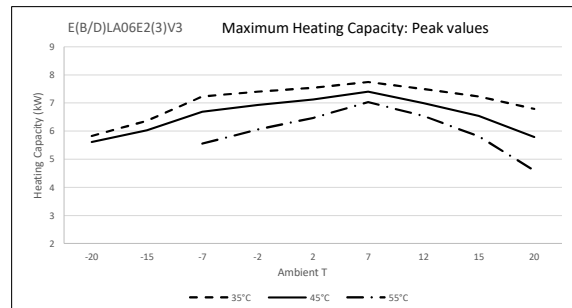
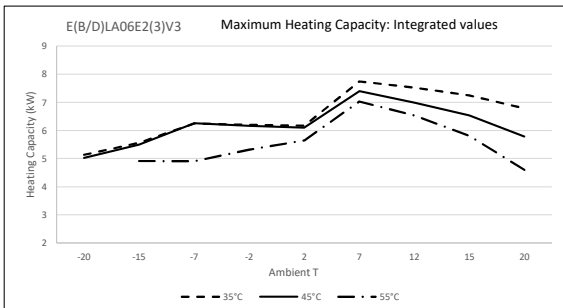
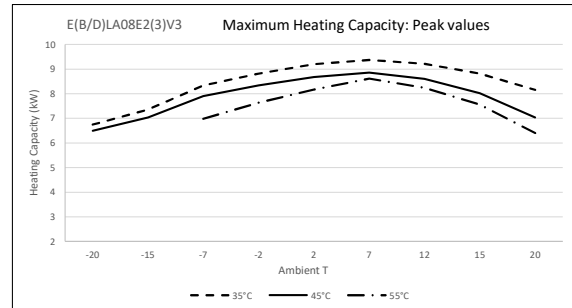
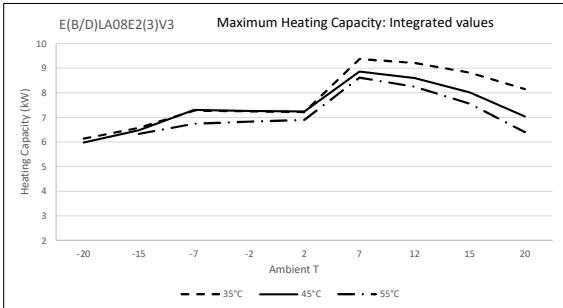
The capacity and the power input are valid for V3 models at 230 V.  
The capacity and the power input are at maximum operation.

**3D139432**

# 5 Capacity graphs

## 5 - 2 Heating Capacity Graphs

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



**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  $7^{\circ}\text{C}$  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.

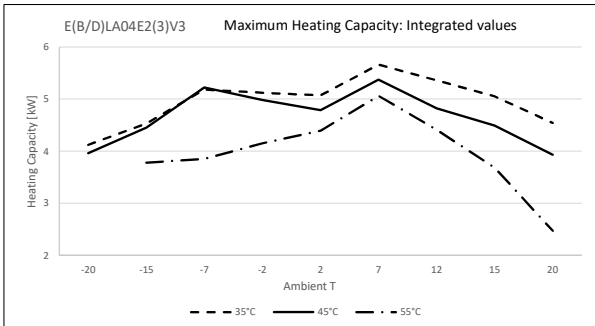
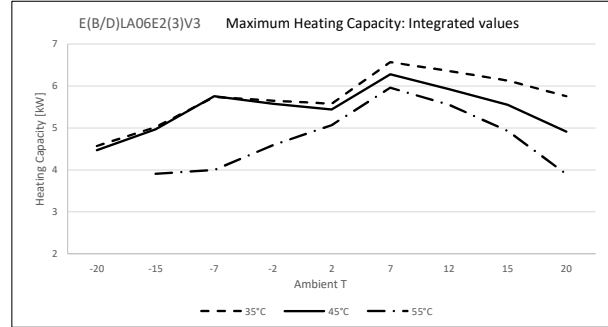
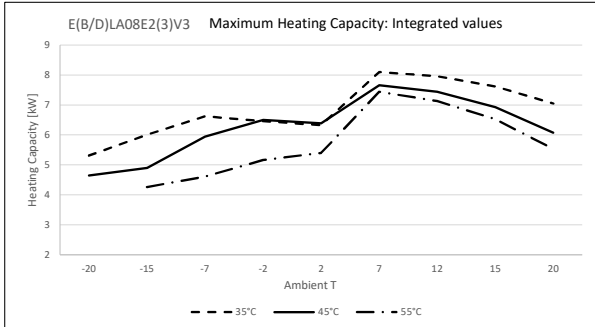
3D139362

# 5 Capacity graphs

## 5 - 3 Heating Capacity Graphs - more quiet mode

5

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



**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.

3D139433



# 6 Capacity tables

## 6 - 1 Certification Programs

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

Rated data for certification programmes - heating mode

Tamb	EWC	LWC	E(B/D)LA04E2(3)V3		E(B/D)LA06E2(3)V3		E(B/D)LA08E2(3)V3	
			HC	COP	HC	COP	HC	COP
[°C]	[°C]	[°C]	[kW]		[kW]		[kW]	
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	EWE	LWE	EBLA04E2(3)V3		EBLA06E2(3)V3		EBLA08E2(3)V3	
			CC	EER	CC	EER	CC	EER
[°C]	[°C]	[°C]	[kW]		[kW]		[kW]	
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 <sub>sc</sub>	[-]	210%	212%	215%
Q <sub>ce</sub>	[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 condenser temperature [°C]
- EWE Entering water evaporator temperature [°C]
- LWE Leaving water evaporator temperature [°C]
- Tamb Ambient temperature [°C]
- Pdes Nominal capacity value at design temperature [°C DB/WB]
- η<sub>sc</sub> Seasonal space cooling energy efficiency according to EN14825 [kW]
- SEER Seasonal energy efficiency ratio according to EN14825
- Q<sub>ce</sub> 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	EKHS-150D3V3	EKHS-180D3V3	EKHS-200D3V3	EKHS-250D3V3	EKHS-300D3V3	EKH-SU150D3V3	EKH-SU180D3V3	EKH-SU200D3V3	EKH-SU250D3V3	EKH-SU300D3V3	EKH-WP300B	EKH-WP500B	EKHWP-300PB	EKHWP-500PB
Tapping pattern	L	L	L	XL	XL	L	L	L	XL	XL	L	XL	L	XL
Application	Average climate (design temperature: -7°C)													
COP <sub>DHW</sub>	2,02	2,65	2,91	2,77	2,77	2,02	2,65	2,91	2,77	2,77	2,28	2,60	2,28	2,63
η <sub>wh</sub>	84,1%	110,3%	121,1%	117,1%	114,3%	84,1%	110,3%	121,1%	117,1%	114,3%	94,7%	107,4%	94,7%	108,7%
AEC	1217	928	845	1430	1466	1217	928	845	1430	1466	1081	1560	1081	1541
Application	Colder climate (design temperature: -2°C)													
COP <sub>DHW</sub>	1,66	2,16	2,36	2,34	2,33	1,66	2,16	2,36	2,34	2,33	2,02	2,12	2,02	2,15
η <sub>wh</sub>	68,8%	89,6%	98,3%	98,9%	96,2%	68,8%	89,6%	98,3%	98,9%	96,2%	83,7%	87,3%	83,7%	88,3%
AEC	1487	1142	1042	1694	1742	1487	1142	1042	1694	1742	1223	1918	1223	1896
Application	Warmer climate (design temperature: -14°C)													
COP <sub>DHW</sub>	2,38	3,01	3,31	3,22	3,23	2,38	3,01	3,31	3,22	3,23	2,50	3,18	2,50	3,21
η <sub>wh</sub>	99,8%	126,2%	138,6%	136,7%	133,3%	99,8%	126,2%	138,6%	136,7%	133,3%	103,9%	132,0%	103,9%	133,4%
AEC	1025	811	738	1225	1256	1025	811	738	1225	1256	985	1269	985	1256

### SYMBOLS

- COP<sub>DHW</sub> Domestic hot water COP According to EN16147
- η<sub>wh</sub> η<sub>wh</sub> (Water heating energy efficiency)
- AEC Annual energy consumption [kWh]

3D139368

# 6 Capacity tables

## 6 - 1 Certification Programs

**6**
**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

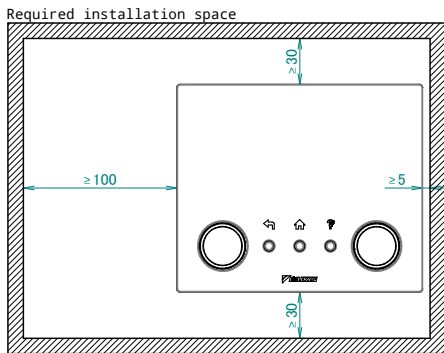
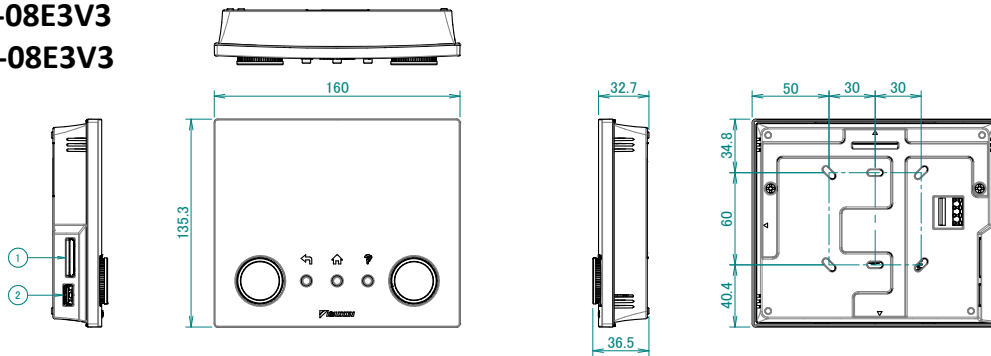
\* Minimum CC that the unit can deliver in part load D

**3D141410**

# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

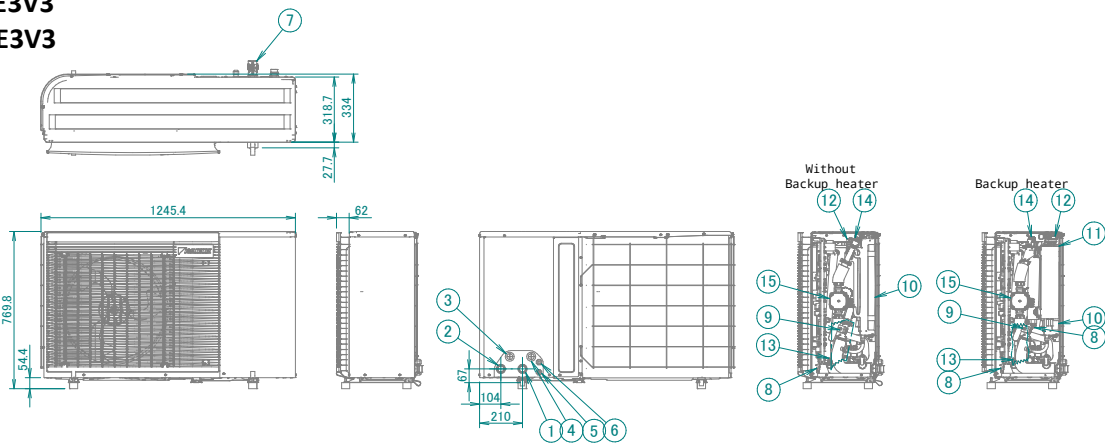
**EBLA04-08EV3**  
**EDLA04-08EV3**  
**EBLA04-08E3V3**  
**EDLA04-08E3V3**



- ① USB Connector
- ② WLAN cartridge

**3D132732**

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



- 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 4 holes for anchor bolts
- ⑱ Mounting foot

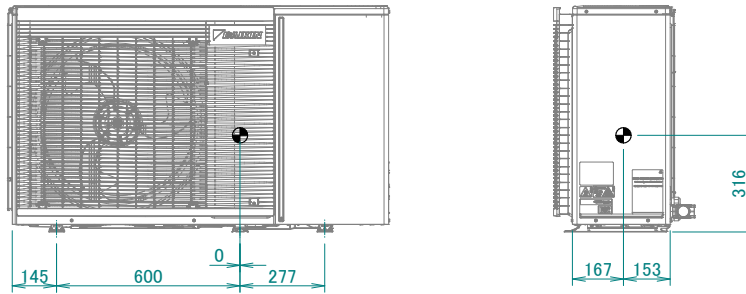
**3D139356A**

# 8 Centre of gravity

8 - 1 Centre of Gravity

8

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



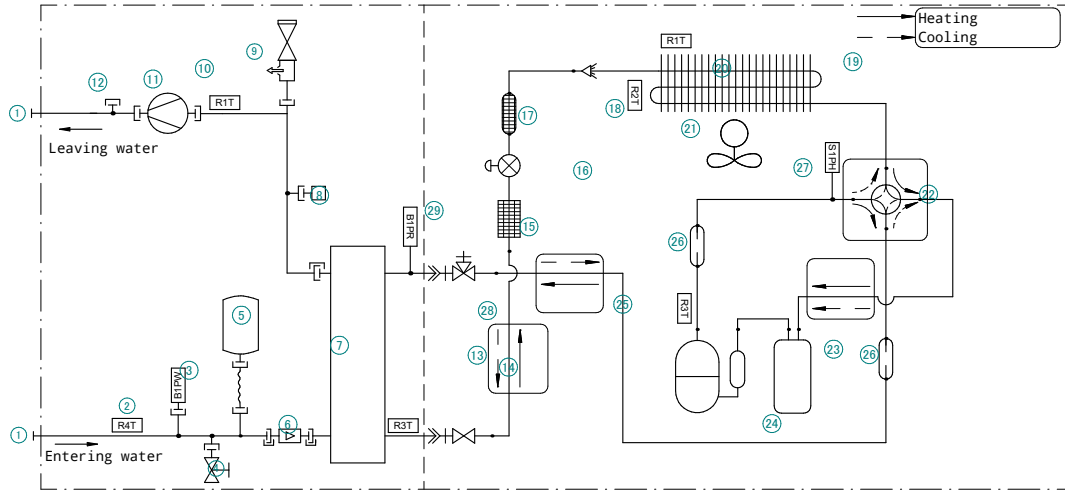
**3D139363**

# 9 Piping diagrams

## 9 - 1 Piping Diagrams

**EBLA04-08EV3**  
**EDLA04-08EV3**

Screw connection	Brazed connection
Quick coupling	Flare connection

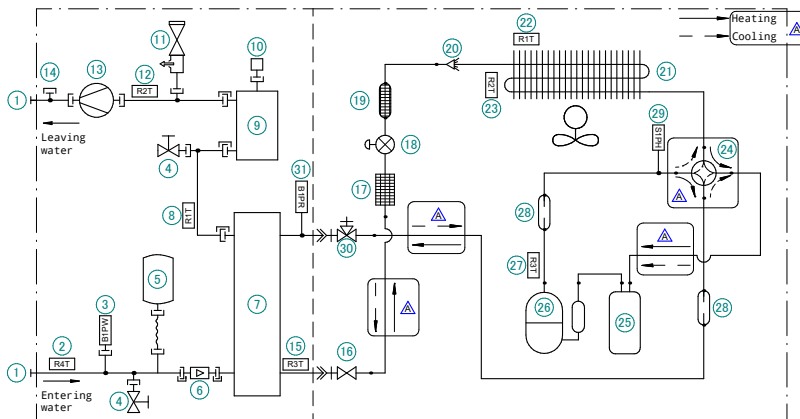


- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>① Screw connection -1"Μ-</li> <li>② R4T-Inlet water thermistor</li> <li>③ Space heating water pressure sensor</li> <li>④ Drain valve water circuit</li> <li>⑤ Expansion vessel</li> <li>⑥ Flow sensor</li> <li>⑦ Plate heat exchanger</li> <li>⑧ Automatic air purge valve</li> <li>⑨ Safety valve</li> <li>⑩ R1T-Outlet water heat exchanger thermistor</li> <li>⑪ Pump</li> <li>⑫ Connection for optional flow switch</li> <li>⑬ R3T-Refrigerant liquid side thermistor</li> <li>⑭ Liquid stop valve</li> <li>⑮ Filter</li> </ul> | <ul style="list-style-type: none"> <li>⑯ Electronic expansion valve</li> <li>⑰ Muffler with filter</li> <li>⑱ Distributor</li> <li>⑲ Heat exchanger</li> <li>⑳ R1T-Thermistor (air)</li> <li>㉑ R2T-Thermistor (heat exchanger)</li> <li>㉒ 4-way valve</li> <li>㉓ Accumulator</li> <li>㉔ Compressor</li> <li>㉕ R3T-Thermistor (discharge)</li> <li>㉖ Muffler</li> <li>㉗ High pressure switch</li> <li>㉘ Gas stop valve with service port</li> <li>㉙ Refrigerant pressure sensor</li> </ul> |
|--|---|

**3D139353B**

**EBLA04-08E3V3**  
**EDLA04-08E3V3**

Screw connection	Brazed connection
Quick coupling	Flare connection



- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>① Screw connection -1"Μ-</li> <li>② R4T-Inlet water thermistor</li> <li>③ Space heating water pressure sensor</li> <li>④ Drain valve water circuit</li> <li>⑤ Expansion vessel</li> <li>⑥ Flow sensor</li> <li>⑦ Plate heat exchanger</li> <li>⑧ R1T-Outlet water heat exchanger thermistor</li> <li>⑨ Backup heater</li> <li>⑩ Automatic air purge valve</li> <li>⑪ Safety valve</li> <li>⑫ R2T-Outlet water backup heater thermistor</li> <li>⑬ Pump</li> <li>⑭ Connection for optional flow switch</li> <li>⑮ R3T-Refrigerant liquid side thermistor</li> </ul> | <ul style="list-style-type: none"> <li>⑯ Liquid stop valve</li> <li>⑰ Filter</li> <li>⑱ Electronic expansion valve</li> <li>⑲ Muffler with filter</li> <li>⑳ Distributor</li> <li>㉑ Heat exchanger</li> <li>㉒ R1T-Thermistor (outdoor air)</li> <li>㉓ R2T-Thermistor (heat exchanger)</li> <li>㉔ 4-way valve</li> <li>㉕ Accumulator</li> <li>㉖ Compressor</li> <li>㉗ R3T-Thermistor (discharge)</li> <li>㉘ Muffler</li> <li>㉙ High pressure switch</li> <li>㉚ Gas stop valve with service port</li> <li>㉛ Refrigerant pressure sensor</li> </ul> |
|---|--|

**3D139436A**

# 10 Wiring diagrams

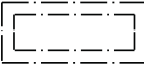



## 10 - 1 Notes & Legend

10

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

### (2) NOTES

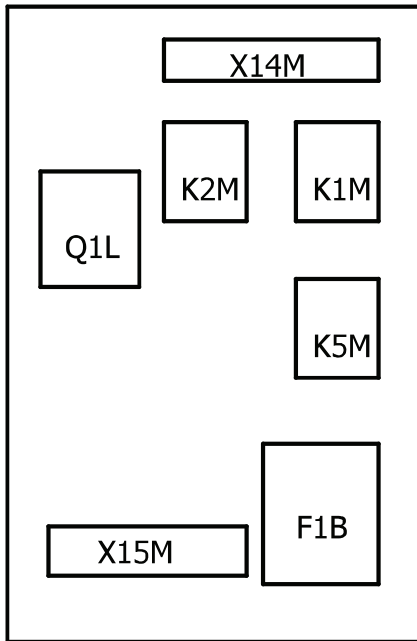
- X14M, X15M : Main terminal
- \_\_\_\_\_ : Earth wiring
- \_\_\_\_\_15\_\_\_\_\_ : Wire number 15
- : Field supply
- ① : Several wiring possibilities

-  : 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

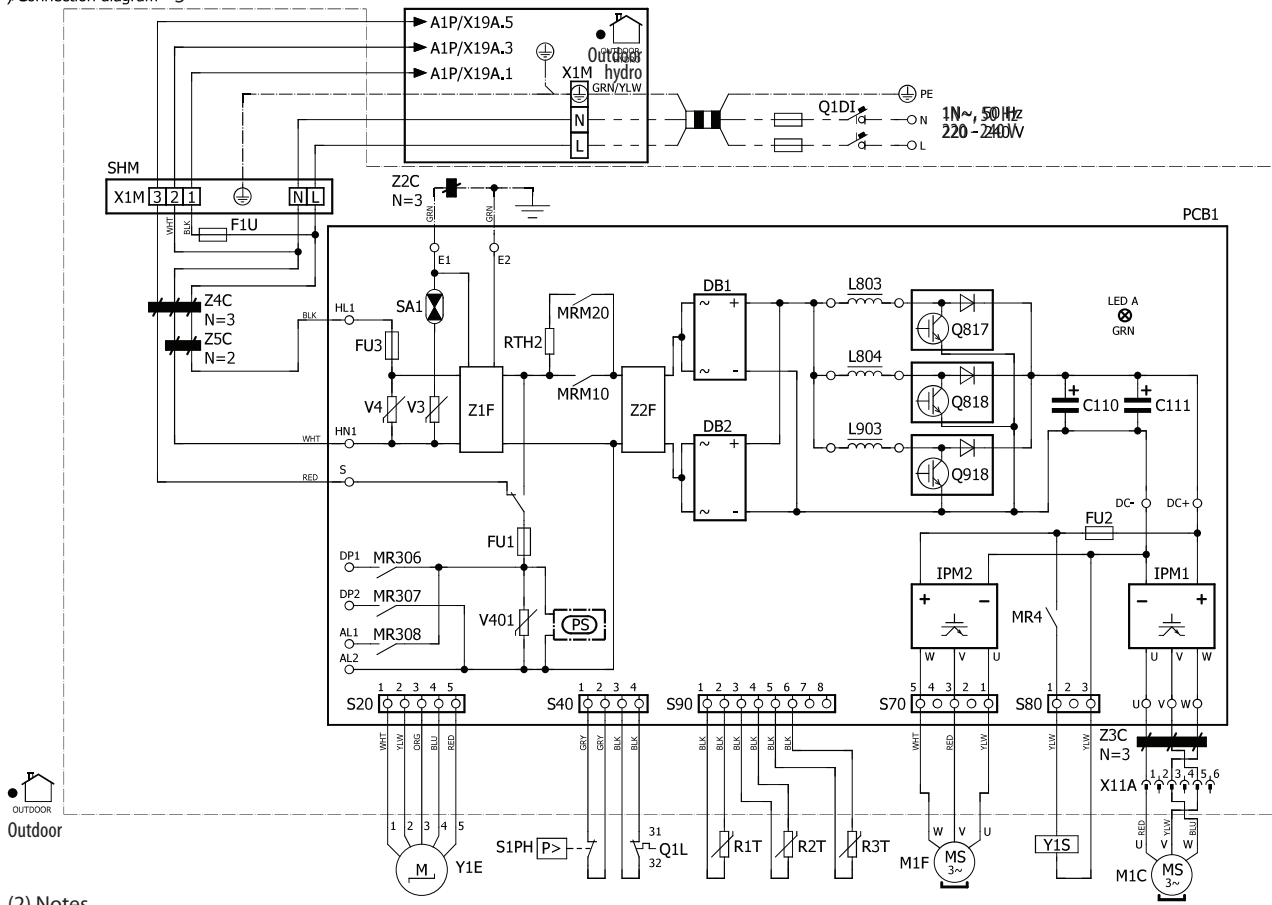
4D139355E

# 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	Part n°	Description
A1P	Hydro kit main PCB	Q1L	Thermal protector
AL	* Connector	Q1DI	# Earth leakage circuit breaker
C	* Capacitor	Q	* Insulated gate bipolar transistor (IGBT)
DB	* Rectifier bridge	R1T	Thermistor (air)
DC	* Connector	R2T	Thermistor (heat exchanger)
DP	* Connector	R3T	Thermistor (discharge)
E	* Connector	RTH2	Resistor
F1U	Fuse T 6.3 A 250 V	S	Connector
FU1, FU2	Fuse T 3.15 A 250 V	S1PH	High pressure switch
FU3	Fuse T 30 A 250 V	S2~80	Connector
H	* Connector	SA1	Surge arrester
IPM	* Intelligent power module	SHM	Terminal strip fixed plate
L	* Reactor	U, V, W	Connector
LED A	Pilot lamp	V3, V4, V401	Varistor
M1C	Compressor motor	X*A	Connector
M1F	Fan motor	X*M	Terminal strip
MR	* Magnetic relay	Y1E	Electronic expansion valve
N	Connector	Y1S	Solenoid valve (4-way valve)
PCB1	Printed circuit board (main)	Z*C	Noise filter (ferrite core)
PS	Switching power supply	Z*F	Noise filter

4D139355E

# 10 Wiring diagrams

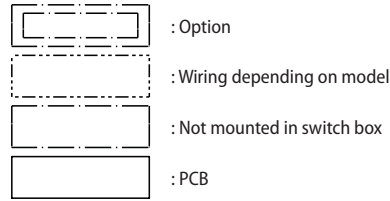
## 10 - 3 Hydro Module - Notes & Legend

10

### 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

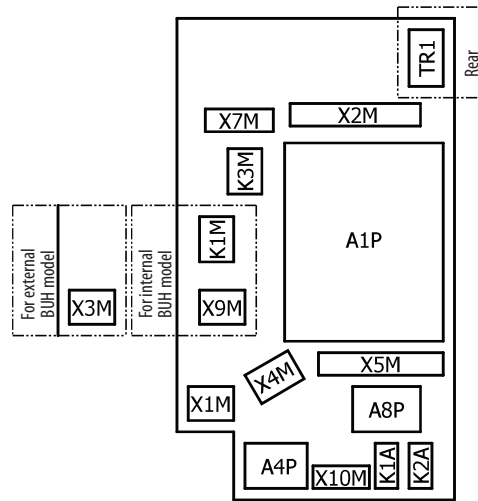


#### NOTES

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

- Backup heater power supply
- 3V (1N~, 230 v, 3kW)
- 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

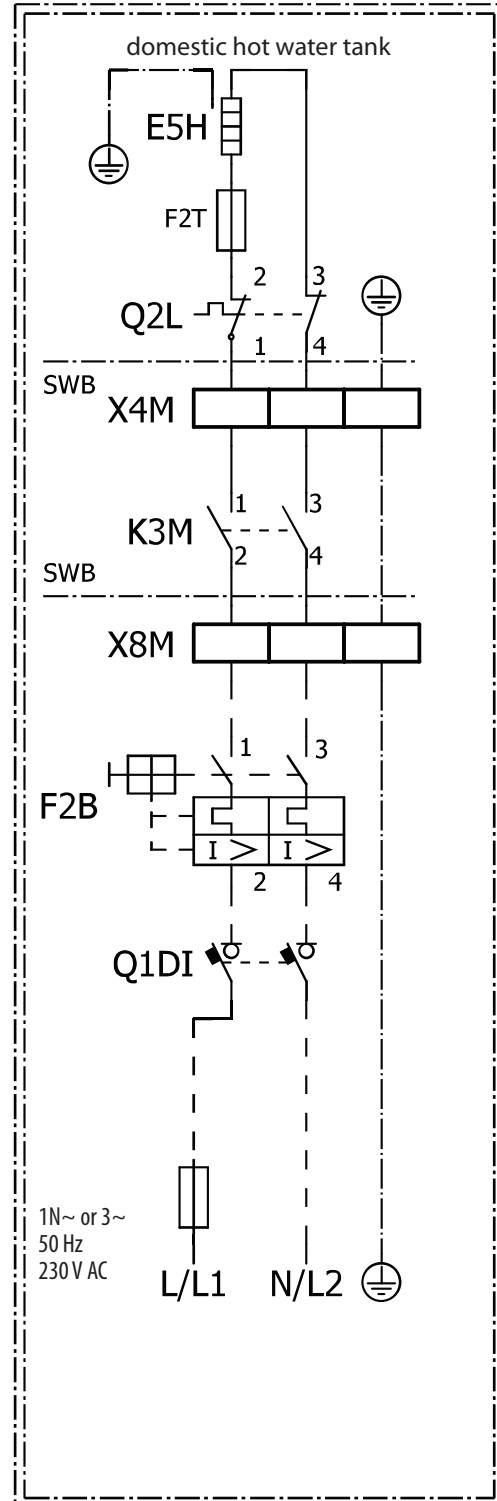
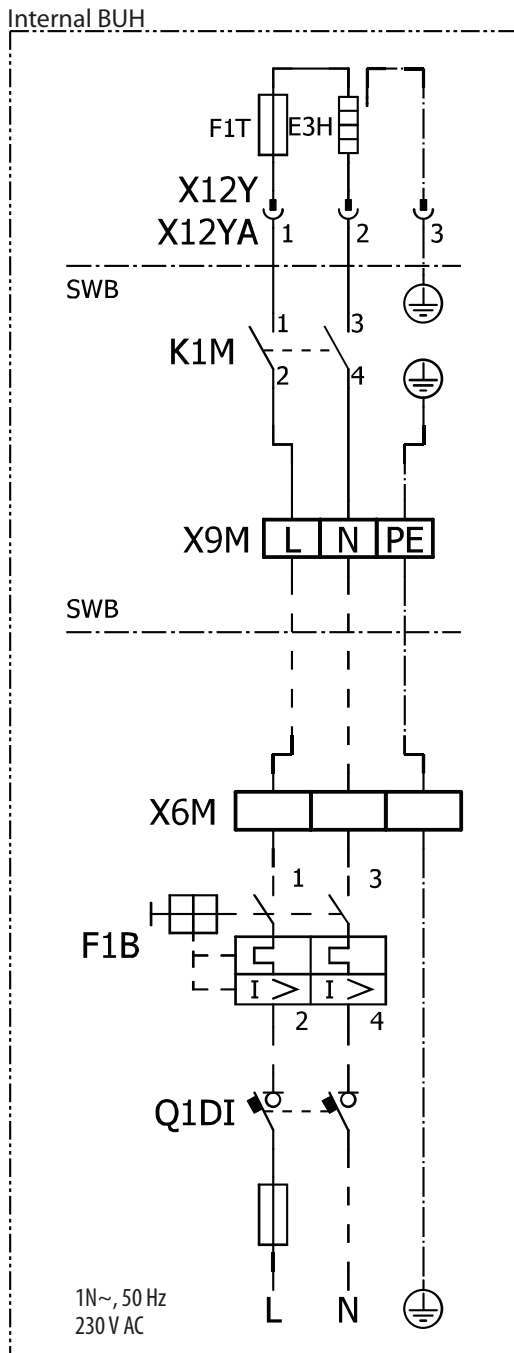
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# 10 Wiring diagrams

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

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



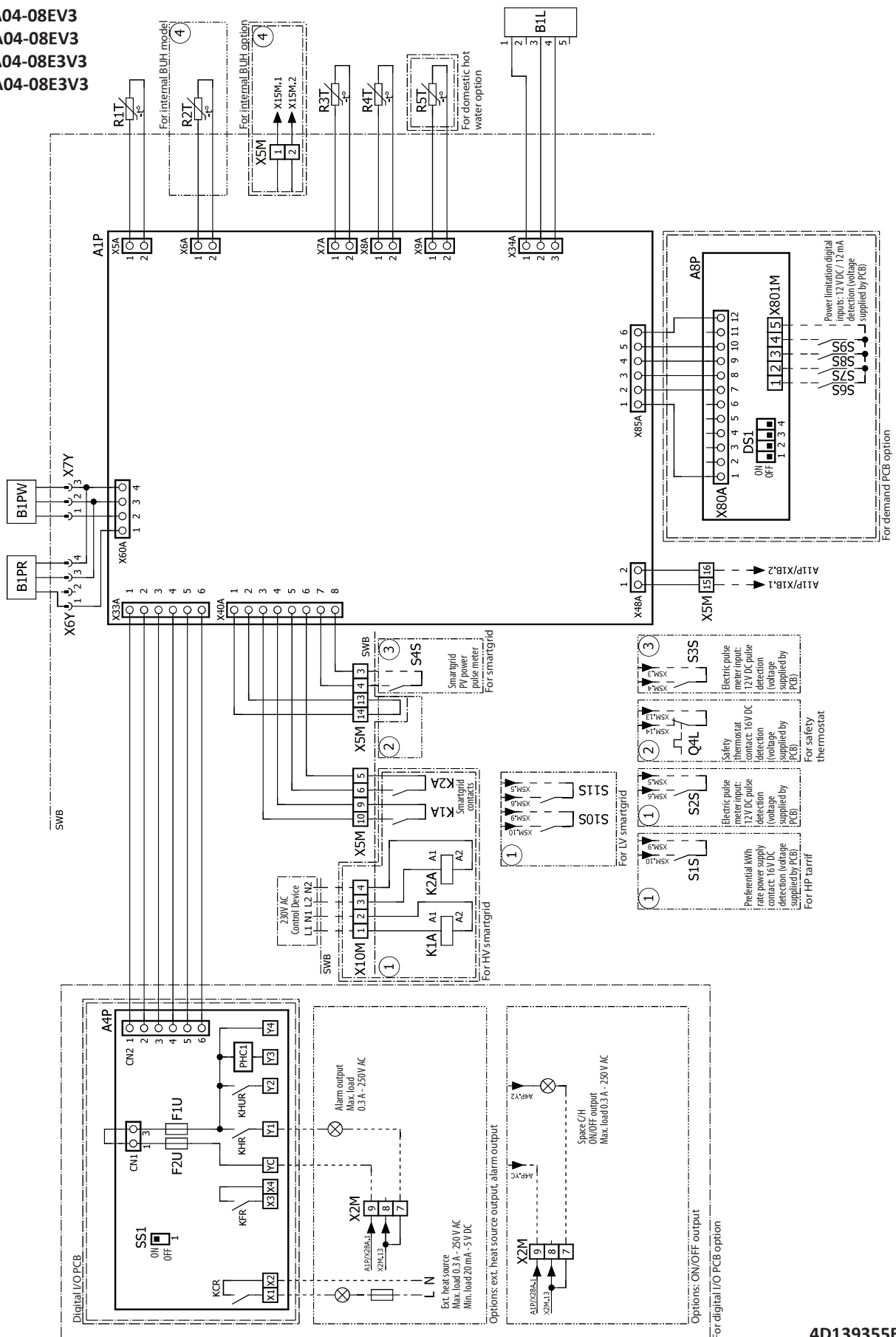
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# 10 Wiring diagrams

## 10 - 5 Hydro Module - Control Circuit

10

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

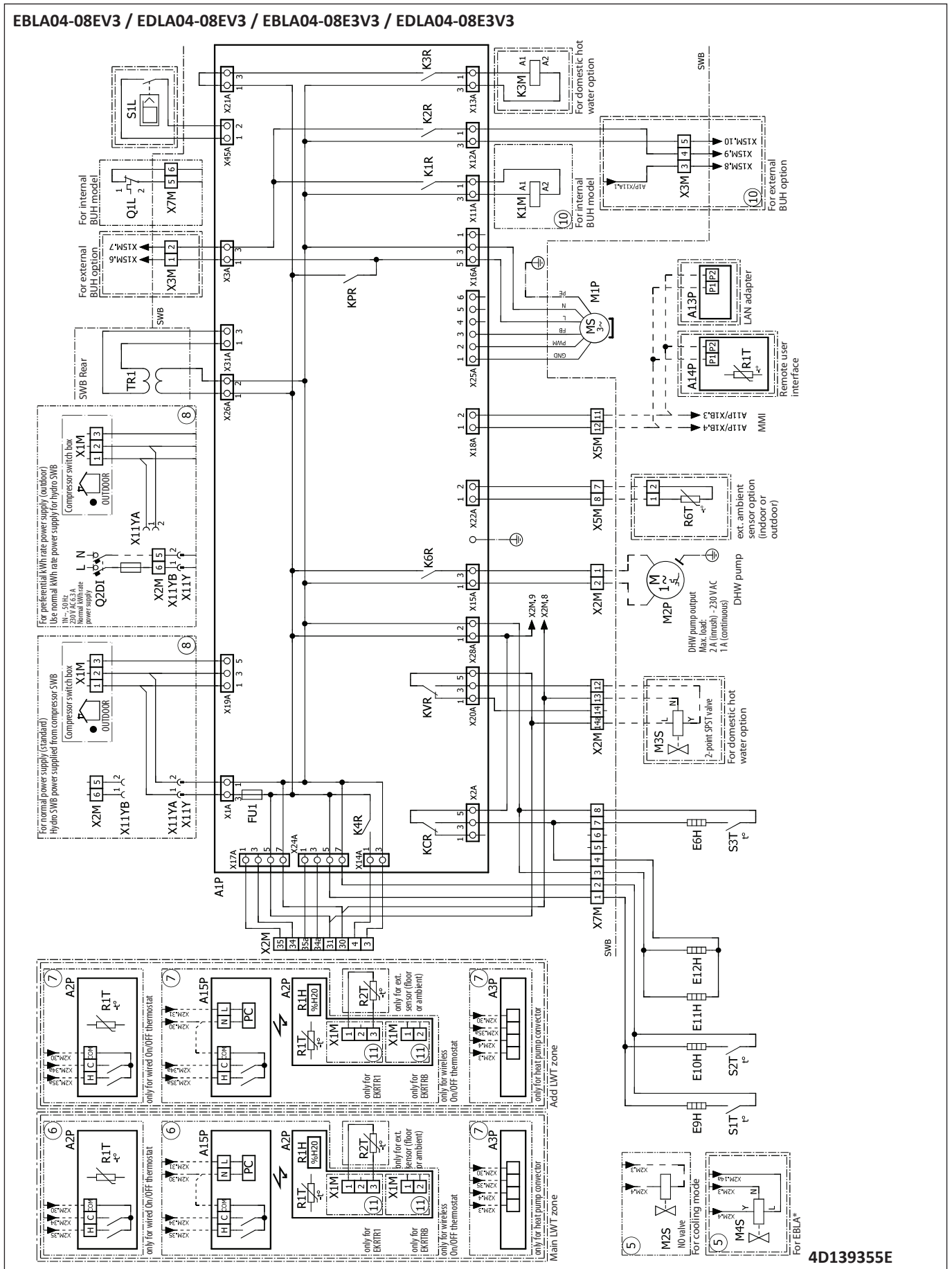


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# 10 Wiring diagrams

## 10 - 5 Hydro Module - Control Circuit

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



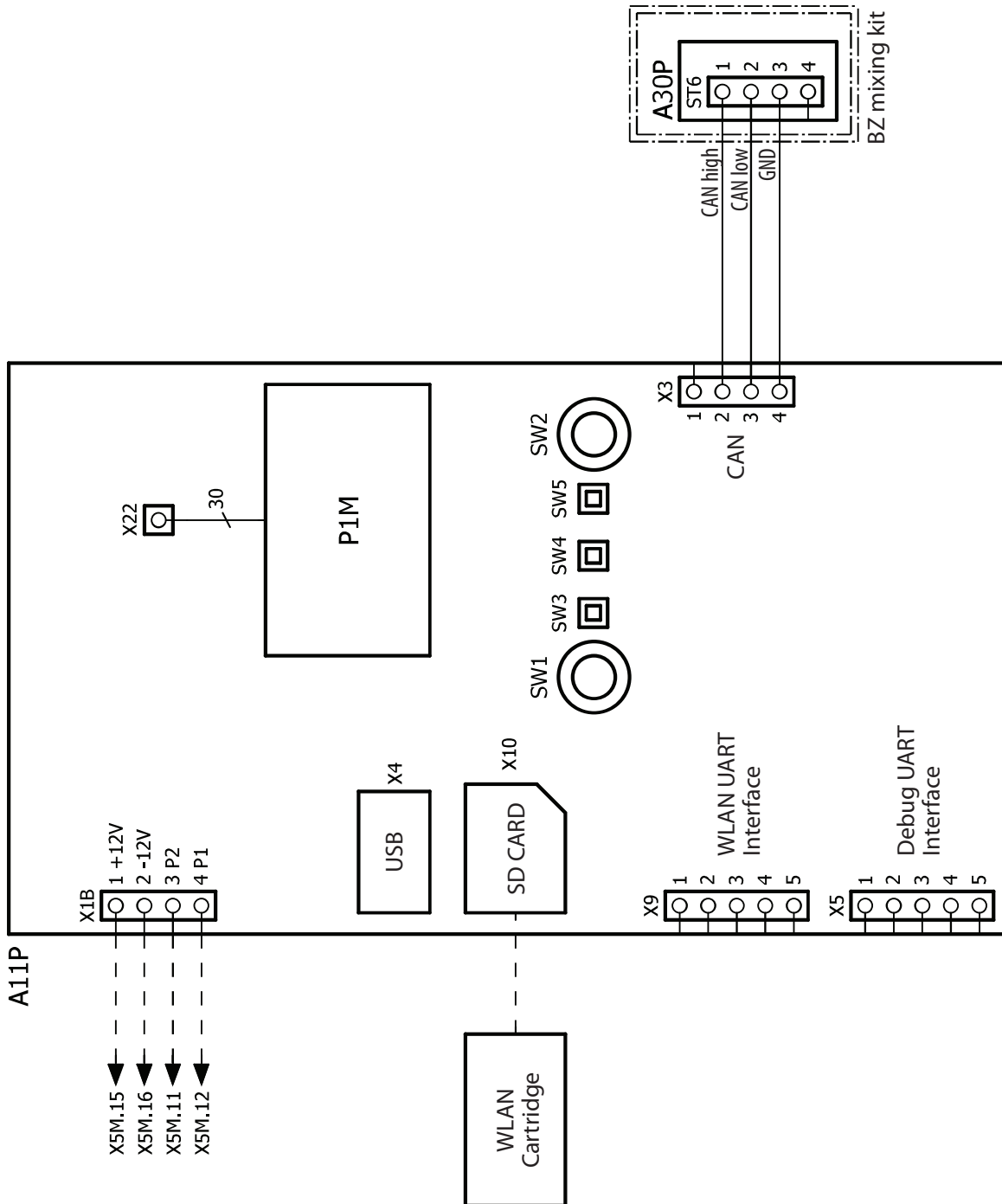
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# 10 Wiring diagrams

## 10 - 5 Hydro Module - Control Circuit

10

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

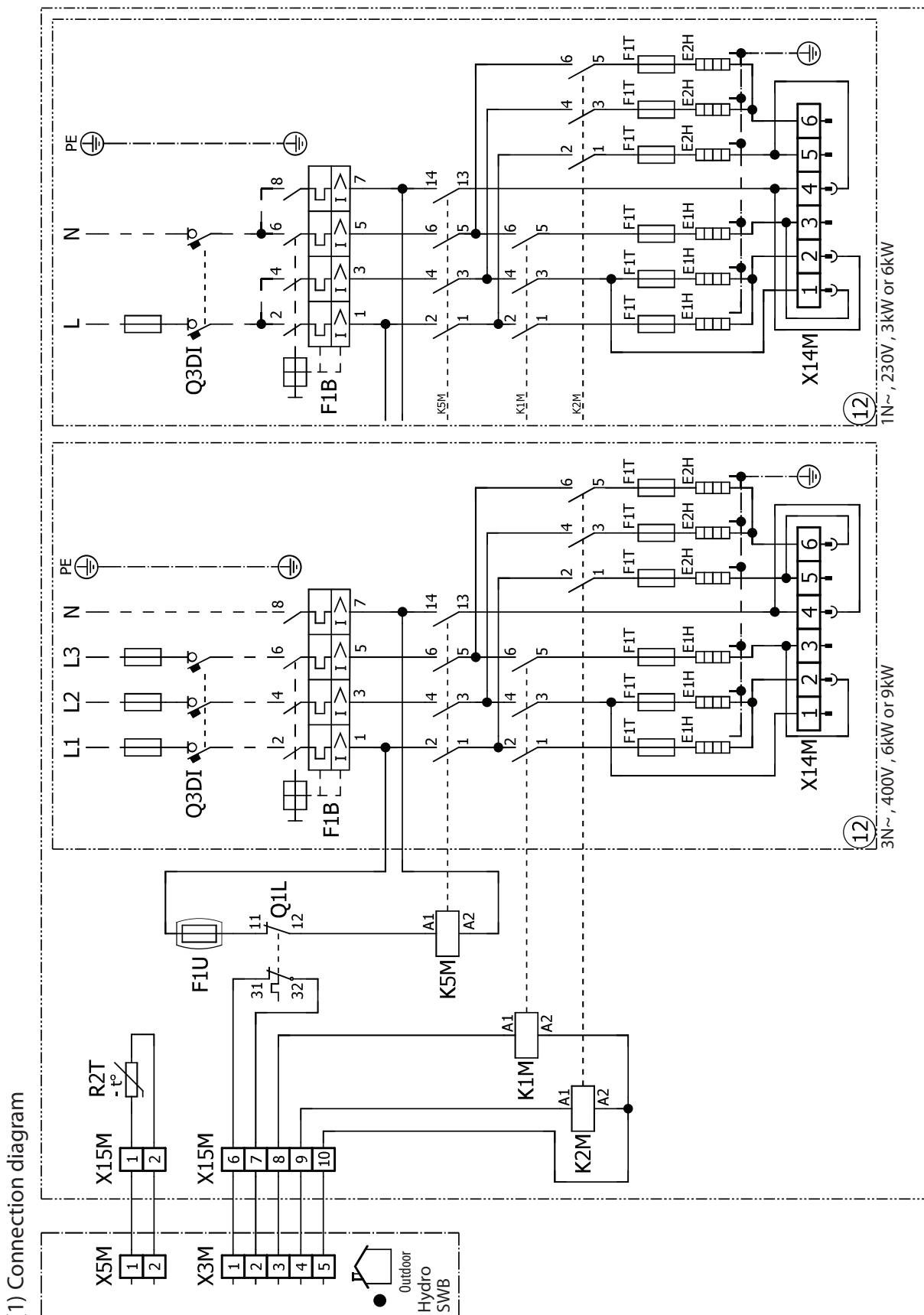


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# 10 Wiring diagrams

## 10 - 6 External back-up heater - Option Circuit

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



(1) Connection diagram

BUH Option (EKLBHCB6W1)

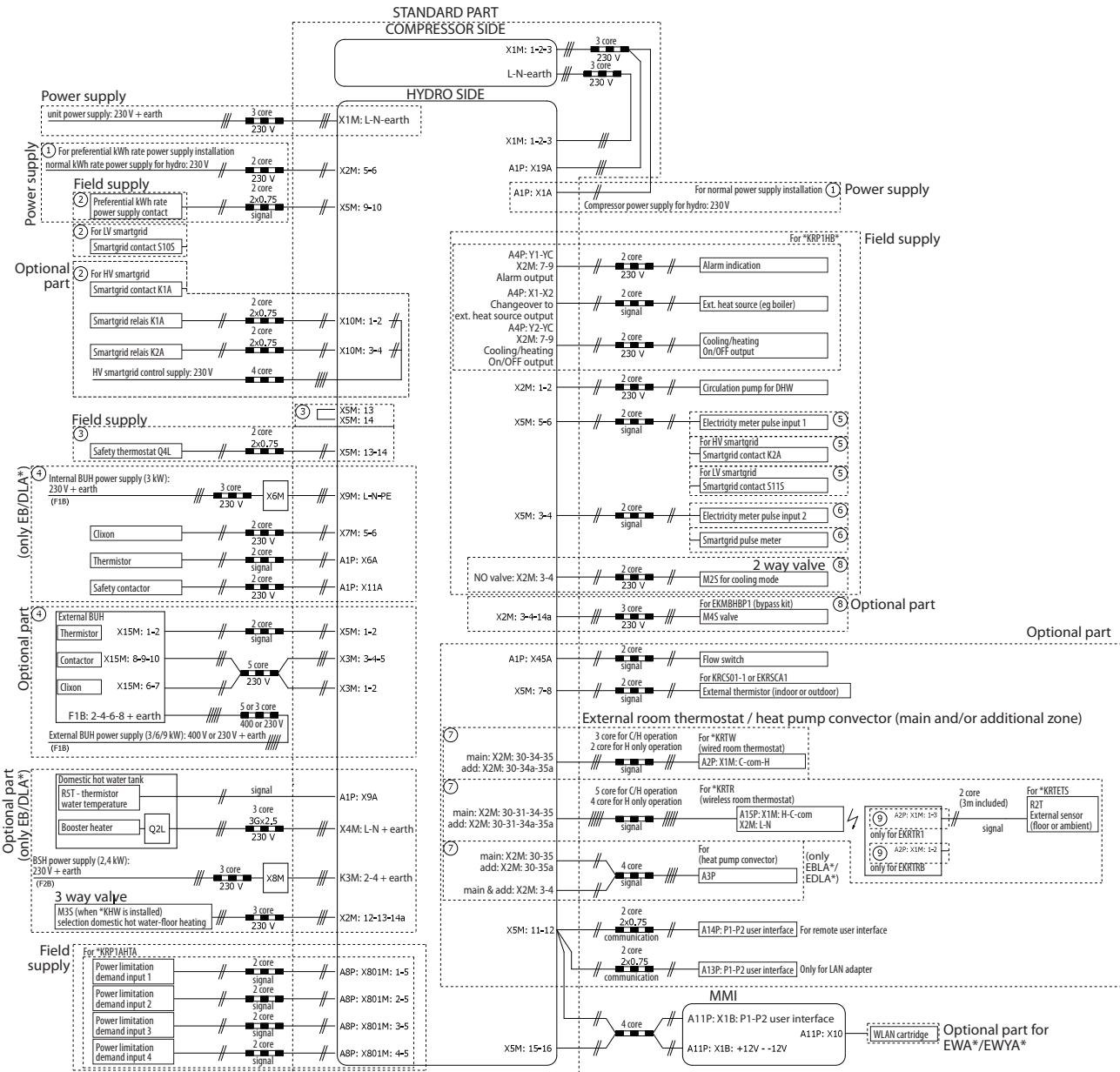
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# 11 External connection diagrams

## 11 - 1 External Connection Diagrams

11

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



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

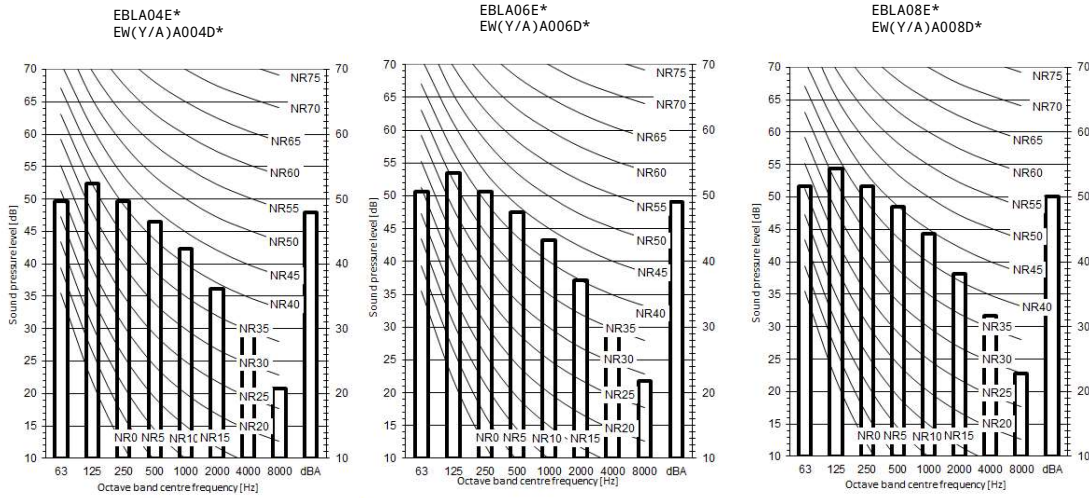
**4D139354B**

# 12 Sound data

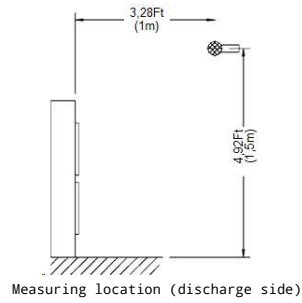
## 12 - 1 Sound Pressure Spectrum - Cooling

**EBLA04-08EV3**  
**EBLA04-08E3V3**

**Cooling**



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



**3D140608**

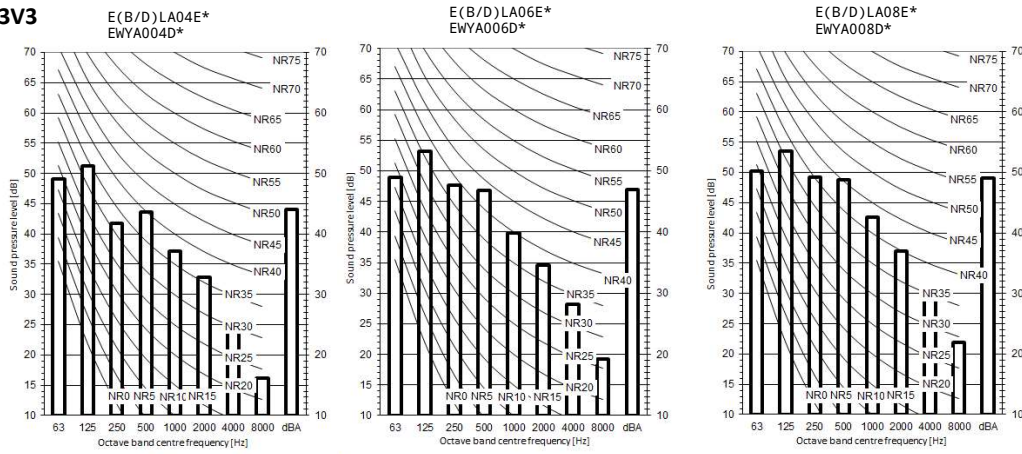
# 12 Sound data

## 12 - 2 Sound Pressure Spectrum - Heating

12

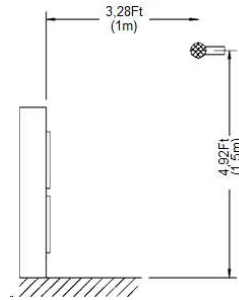
**EBLA04-08EV3**  
**EDLA04-08EV3**  
**EBLA04-08E3V3**  
**EDLA04-08E3V3**

### 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 μPa
- 5.If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



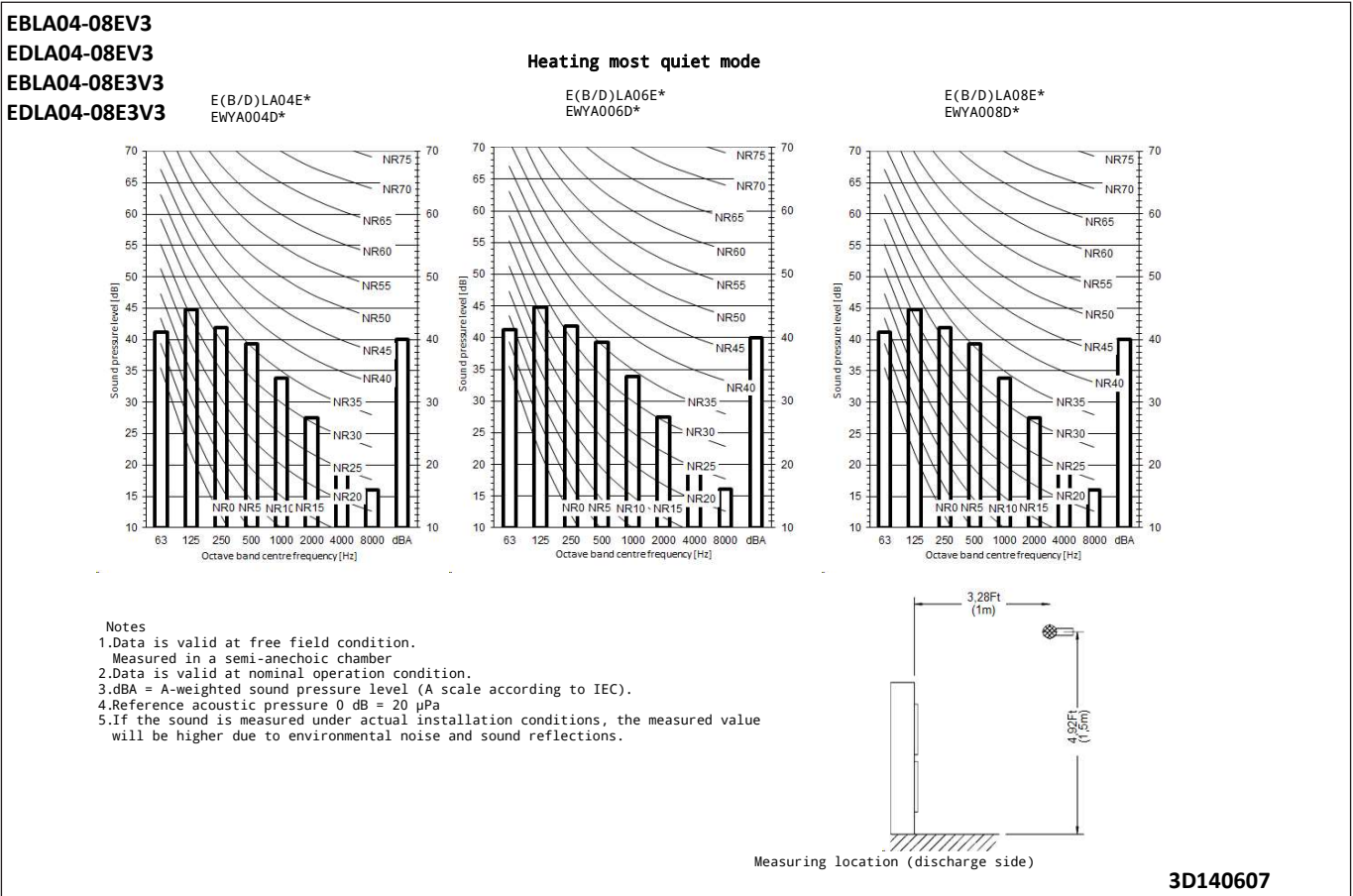
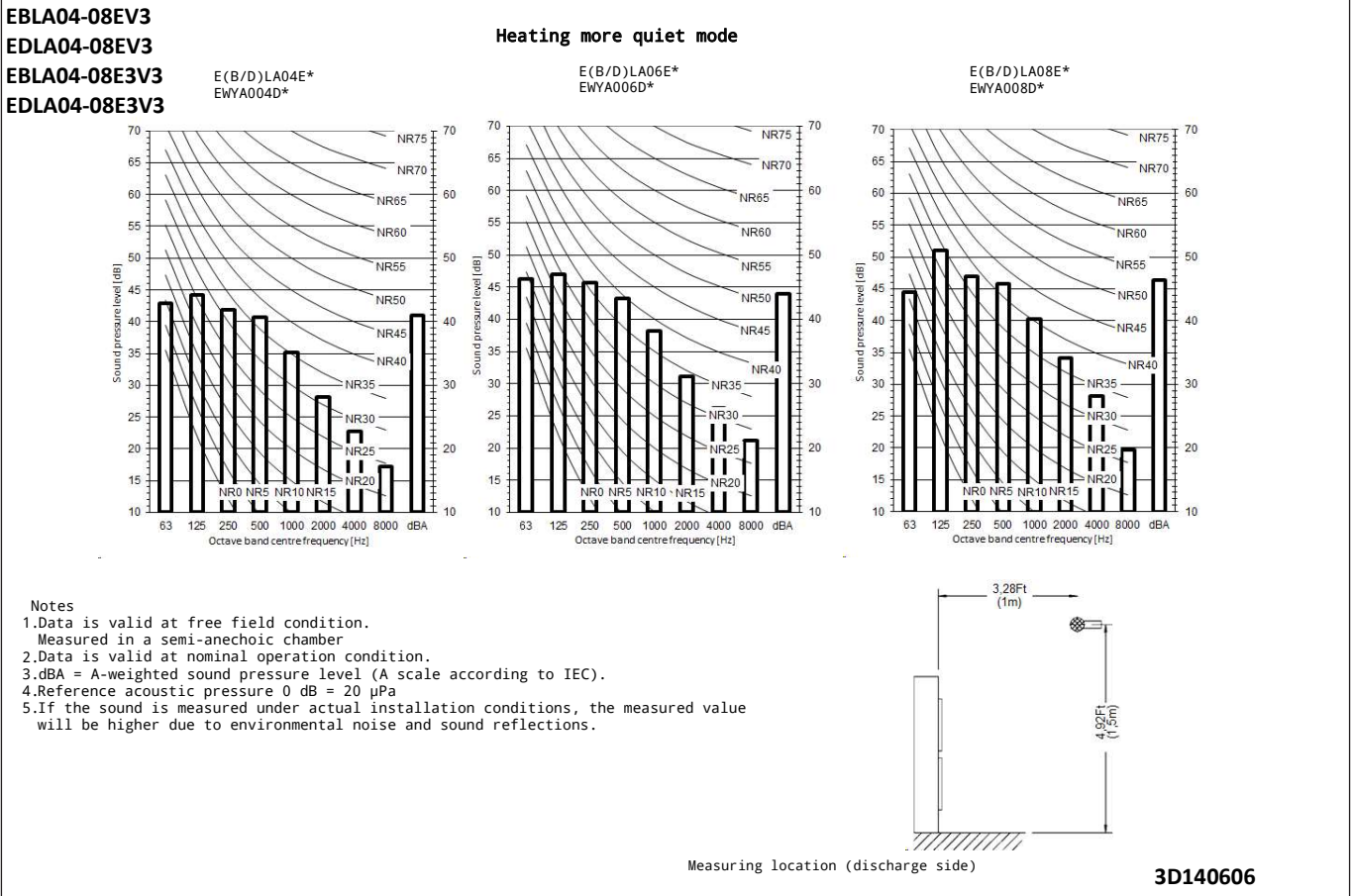
Measuring location (discharge side)

**3D140605**



# 12 Sound data

## 12 - 3 Sound Pressure Spectrum Quiet Mode

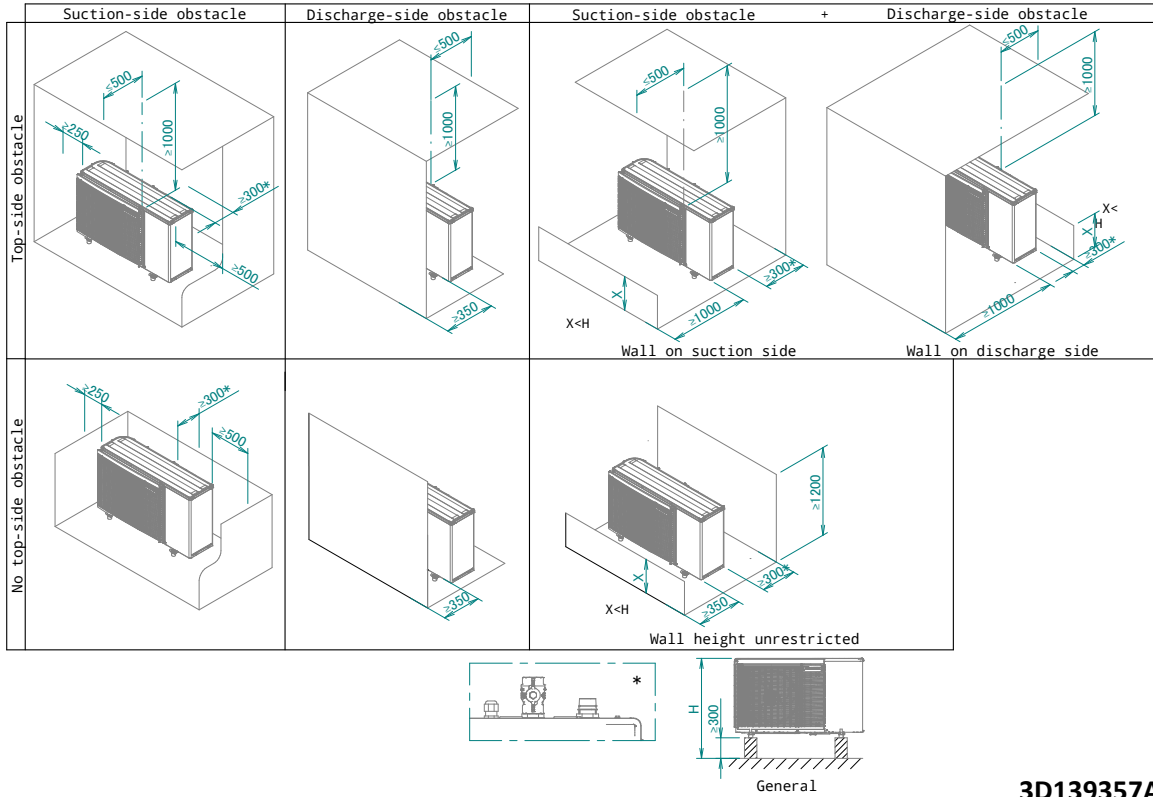


# 13 Installation

## 13 - 1 Installation Method

13

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

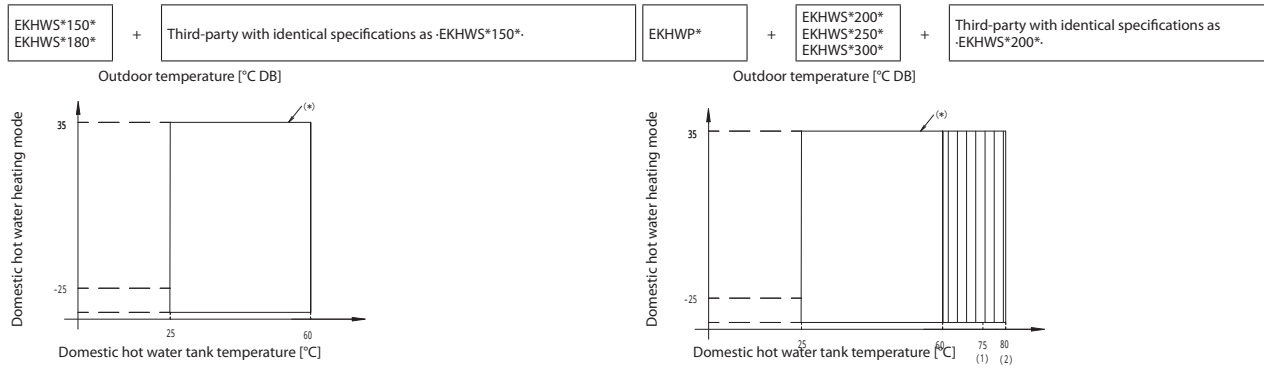


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# 14 Operation range

## 14 - 1 Operation Range

### 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°C, then outdoor unit operation is possible, but with a possible capacity reduction.  
 If the outdoor temperature < -25°C, the outdoor unit will stop.  
 Indoor unit and backup heater operation will continue.

- NOTES**
- In restricted power supply mode (EKHP\* 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-m<sup>2</sup> and <3.7-m<sup>2</sup>. 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-m<sup>2</sup> and <3.7-m<sup>2</sup>. 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 EKHP\*

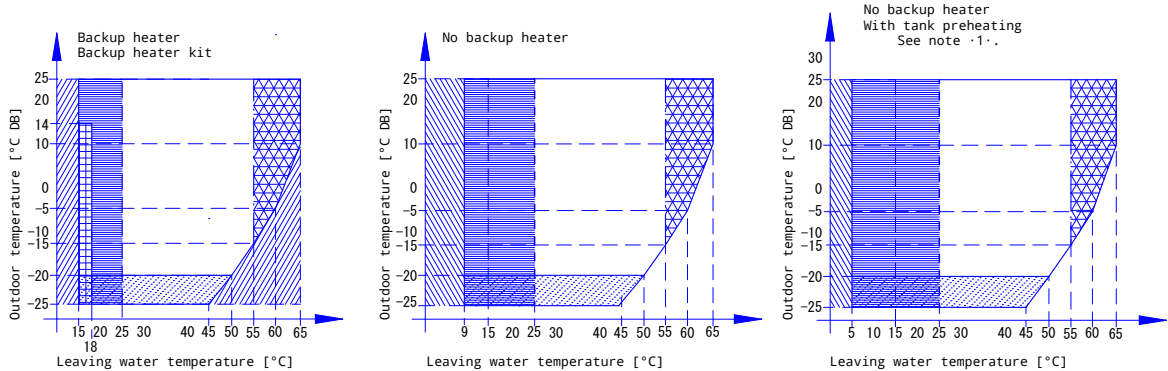
\* System operation: the system consists of an outdoor unit and indoor unit, and depending on the system, a booster heater and/or a backup heater.

**REMARK**  
 If the outdoor temperature < -20°C, then outdoor unit operation is possible, but with a possible capacity reduction.  
 If the outdoor temperature < -25°C, the outdoor unit will stop.  
 Indoor unit and backup heater operation will continue.

- NOTES**
- In restricted power supply mode (EKHP\* 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-m<sup>2</sup> and <3.7-m<sup>2</sup>. 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-m<sup>2</sup> and <3.7-m<sup>2</sup>. Tank thermistor and booster heater above heat pump coil.

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### 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°C and ΔT = .10°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.

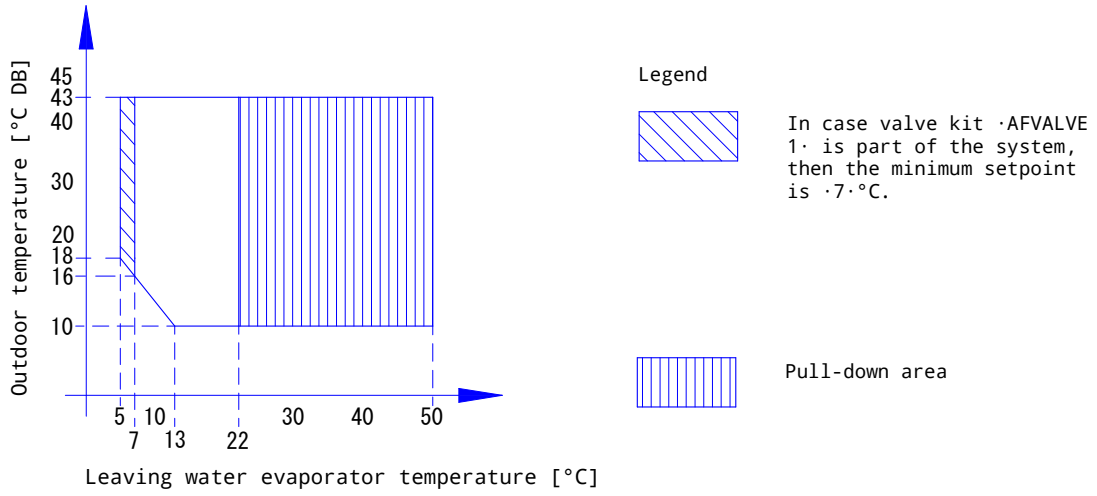
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# 14 Operation range

## 14 - 1 Operation Range

14

**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.

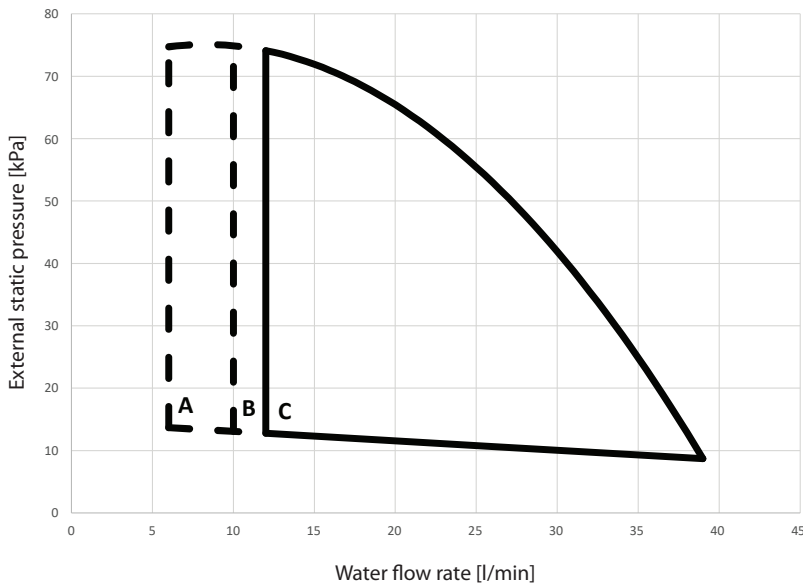
**3D139430**

# 15 Hydraulic performance

## 15 - 1 Static Pressure Drop Unit

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

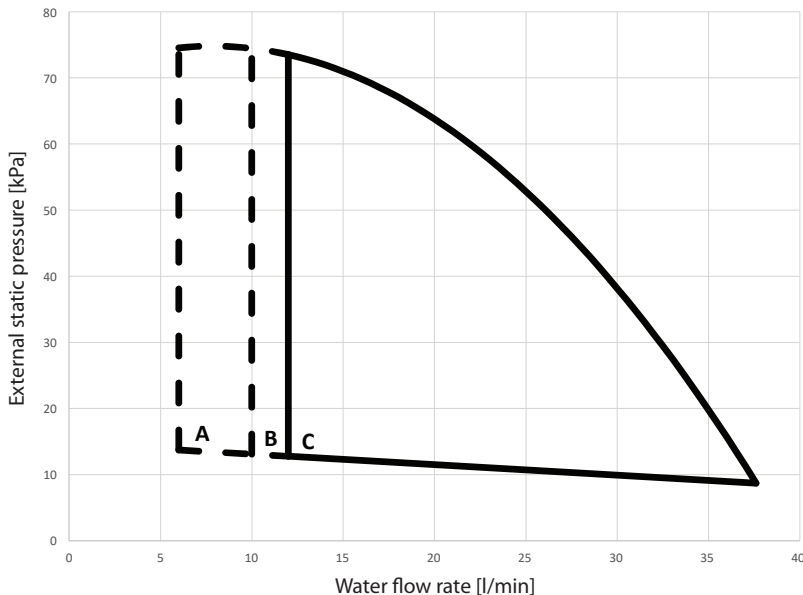
**NOTES**

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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EBLA04-08E3V3

EDLA04-08E3V3

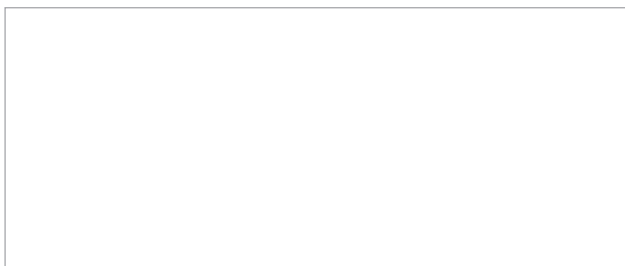


- A = Minimum water flow rate during normal operation
- B = Minimum water flow rate during Cooling operation
- C = Minimum water flow rate during Defrost and Backup heater operation

**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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03/2023



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