

Air cooled mini inverter chiller Technical Data EWAA-DV3P / EWYA-DV3P



EWAA004D2V3P
EWAA006D2V3P
EWAA008D2V3P
EWYA004D2V3P
EWYA006D2V3P
EWYA008D2V3P

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Static Pressure Drop Unit

32

1 Features

1 - 1 EWYA-DV3P, EWAA-DV3P

- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- › Inverter chiller
- › Hermetically sealed swing inverter compressor
- › New casing for the outdoor units
- › Separate MMI-2 controller for indoor installation

1



Inverter



Swing
compressor

2 Specifications

EWYA-DV3P, EWAA-DV3P

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Technical specifications					EWAA004DV3P	EWAA006DV3P	EWAA008DV3P
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)
EER					5.91 (1) / 3.32 (2)	5.40 (1) / 3.28 (2)	5.19 (1) / 3.14 (2)
Dimensions	Packed unit	Depth		mm		500	
		Height		mm		920	
		Width		mm		1,350	
	Unit	Depth		mm		362	
		Height		mm		770	
		Width		mm		1,250	
Weight	Packed unit			kg		95	
	Unit			kg		88.0	
Packing	Material					Carton / EPS / Wood (pallet)	
Casing	Colour					Ivory white	
	Material					Zinc coated low carbon steel	
Water heat exchanger	Quantity					1	
	Type					Plate heat exchanger	
	Water flow rate	Cooling	Nom.	l/min	14 (1) / 13 (2)	17 (1) / 15 (2)	18 (1) / 16 (2)
	Water volume			l		1	
	Insulation material					Kaiflex	
	Model	Quantity				1	
Air heat exchanger	Fin	Type				ACH40-42AH	
		Treatment				Hydrophilic	
		Type				Waffle Hydrophilic Blue Fin	
	Fin pitch			mm		14	
	Length			mm		920	
	Rows	Quantity				2	
Pump Standard	Stages	Quantity				32	
	Nr of speeds					PWM controlled	
	Manufacturer					Grundfos	
	Model					UPM4L K 15-75 130 9 DKI	
	Power input			W		75	
	Quantity					1	
Hydraulic components	Expansion vessel	Max. water pressure		bar		3	
		Pre pressure		bar		1	
		Volume		l		7	
Hydraulic components	Safety valve			bar		3	
Fan	Quantity					1	
	Type					Propeller fan	
	Diameter			mm		510	
	Discharge direction					Horizontal	
Fan motor	Model					KFD-325-77-10A	
	Output			W		77	
	Quantity					1	
	Speed	Steps				10	
Refrigerant oil	Type					FW68DA	
	Charged volume			l		1.1	
Compressor	Quantity					1	
	Type					Hermetically sealed swing compressor	
	Model					2YC71EXD#C	
Operation range	Air side	Cooling	Max.	°CDB		43	
			Min.	°CDB		10 (3)	
	Water side	Cooling	Max.	°CDB		22	
			Min.	°CDB		5 (3)	
Sound power level	Cooling	Nom.		dB(A)	61.0 (1)	62.0 (1)	
Sound pressure level	Cooling	Nom.		dB(A)	48.0 (1)	49.0 (1)	50.0 (1)
Refrigerant	Type					R-32	
	GWP					675.0	
	Charge			kg		1.35	
Water circuit	Air purge valve					Yes	
	Drain valve / fill valve					No	
	Flow sensor					Yes	
	flowswitch					Yes	
	Safety valve			bar		3	
PED	Category					Category II	
	Most critical part	Name				Compressor	
		Ps*V		Bar*l		110	
Defrost control						Sensor for outdoor heat exchanger temperature	
Defrost method						Reversed cycle	

2 Specifications

EWYA-DV3P, EWAA-DV3P

Technical specifications			EWAA004DV3P	EWAA006DV3P	EWAA008DV3P
Safety devices	Item	01	High pressure switch		
General	Supplier/	Name and address	Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00		
	Manu- facturer details	Name or trademark	Daikin Europe N.V.		
	Product descrip- tion	Air-to-water heat pump	Yes		
General	Product descrip- tion	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		
Space heating general	Other	Capacity control	Inverter		

Electrical specifications			EWAA004DV3P	EWAA006DV3P	EWAA008DV3P
Power supply	Name		V3		
	Phase		1~		
	Frequency	Hz	50		
	Voltage	V	230 +/-10%		
Unit	Recommended fuses	A	20		25
Pump Standard	Power	Voltage	V	230	
	Current	Maximum running current	A	0.7	
Compressor	Phase		3~		
	Voltage	V	220		

(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			EWYA004DV3P	EWYA006DV3P	EWYA008DV3P
Cooling capacity	Nom.	kW	4.86 (1) / 4.52 (2)	5.83 (1) / 5.09 (2)	6.18 (1) / 5.44 (2)
Heating capacity	Nom.	kW	4.30 (1) / 4.60 (2)	6.00 (1) / 5.90 (2)	7.50 (1) / 7.80 (2)
Power input	Cooling	Nom.	kW	0.820 (1) / 1.36 (2)	1.08 (1) / 1.55 (2)
	Heating	Nom.	kW	0.840 (1) / 1.26 (2)	1.24 (1) / 1.69 (2)
EER			5.91 (1) / 3.32 (2)	5.40 (1) / 3.28 (2)	5.19 (1) / 3.14 (2)
COP			5.10 (1) / 3.65 (2)	4.85 (1) / 3.50 (2)	4.60 (1) / 3.50 (2)
Dimensions	Packed unit	Depth	mm	500	
		Height	mm	920	
		Width	mm	1,350	
	Unit	Depth	mm	362	
		Height	mm	770	
		Width	mm	1,250	
Weight	Packed unit	kg	95		
	Unit	kg	88.0		
Packing	Material		Carton / EPS / Wood (pallet)		
Casing	Colour		Ivory white		
	Material		Zinc coated low carbon steel		
Water heat ex- changer	Quantity		1		
	Type		Plate heat exchanger		
	Water	Cooling	Nom.	l/min	14 (1) / 13 (2)
	Water	Heating	Nom.	l/min	17 (1) / 15 (2)
	Flow rate				18 (1) / 16 (2)
	Water volume				22 (1) / 22 (2)
	Insulation material		Kaiflex		
	Model	Quantity	1		
	Type		ACH40-42AH		
	Fin	Treatment	Hydrophilic		
Air heat exchanger	Type		Waffle Hydrophilic Blue Fin		
	Fin pitch	mm	14		
	Length	mm	920		
	Rows	Quantity	2		
	Stages	Quantity	32		
	Nr of speeds		PWM controlled		
Pump Standard	Manufacturer		Grundfos		
	Model		UPM4L K 15-75 130 9 DK1		
	Power input	W	75		
	Quantity		1		
	Expansion	Max. water pressure	bar	3	
Hydraulic compo- nents	Pre pressure	bar	1		
	vessel	Volume	l	7	
	Safety valve	bar	3		

2 Specifications

EWYA-DV3P, EWAA-DV3P

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Technical specifications					EWYA004DV3P	EWYA006DV3P	EWYA008DV3P
Fan	Quantity				1		
	Type				Propeller fan		
	Diameter mm				510		
	Discharge direction				Horizontal		
Fan motor	Model				KFD-325-77-10A		
	Output W				77		
	Quantity				1		
	Speed	Heating	Nom.	rpm	620	680	740
	Steps				10		
Refrigerant oil	Type				FW68DA		
	Charged volume l				1.1		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
	Model				2YC71EXD#C		
Operation range	Air side	Cooling	Max.	°CDB	43		
			Min.	°CDB	10 (3)		
		Heating	Max.	°CDB	25		
			Min.	°CDB	-25		
	Water side	Cooling	Max.	°CDB	22		
			Min.	°CDB	5 (3)		
		Heating	Max.	°CDB	65 (3)		
			Min.	°CDB	9 (3)		
	Sound power level	Cooling	Nom.	dBA	61.0 (1)	62.0 (1)	
		Heating	Nom.	dBA	58.0 (1)	60.0 (1)	62.0 (1)
Sound pressure level	Cooling	Nom.	dBA	48.0 (1)	49.0 (1)	50.0 (1)	
	Heating	Nom.	dBA	44.0 (1)	47.0 (1)	49.0 (1)	
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge kg				1.35		
Water circuit	Air purge valve				Yes		
	Drain valve / fill valve				No		
	Flow sensor				Yes		
	flowswitch				Yes		
	Water circuit	Safety valve bar				3	
PED	Category				Category II		
	Most critical part	Name			Compressor		
		Ps*V	Bar*I		110		
Defrost control					Sensor for outdoor heat exchanger temperature		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
General	Supplier/Manufacturer details	Name and address			Daikin Industries Czech Republic s.r.o. U Nove Hospody 1/1155, 301 00		
		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)		m³/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			

2 Specifications

EWYA-DV3P, EWAA-DV3P

Technical specifications					EWYA004DV3P		EWYA006DV3P		EWYA008DV3P			
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	3,769		4,405		4,939			
			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			
			ηs (Seasonal space heating efficiency)	%	129		128		131			
			Seasonal space heating eff. class		A++							
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)				1.0				
			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-B/1°CWB)	CdH (Degradation heating)				1.0					
				COPd	3.23		3.16		3.20			
				PdH	3.3		3.9		4.4			
			PERd	129.2		126.4		128.0				
Space heating	Average climate water outlet 55°C	C Condition (7°CDB-B/6°CWB)	CdH (Degradation heating)				1.0					
				COPd	4.40		4.49		4.64			
				PdH			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	3.3				4.1			
				PERd	244.0				248.8			
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		2.01		1.64		0.95		
				Tbiv	COPd	1.97		2.12		1.90		
					PdH	5.3		6.1		7.5		
					PERd	78.8		84.8		76.0		
					Tbiv	-7		-6		-8		
					Tol (temperature operating limit)	COPd	1.37		1.53		1.64	
						PdH	3.99		5.36		7.05	
						PERd	54.8		61.2		65.6	
						TOL	-10					
				WTOL	55							
		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-B/1°CWB)	CdH (Degradation heating)				1.0							
				COPd	2.11		2.15		2.09			
				PdH	4.7		5.6		6.8			
	PERd			84.4		86.0		83.6				
C Condition (7°CDB-B/6°CWB)	CdH (Degradation heating)				1.0							
				COPd	3.28		3.45		3.42			
				PdH	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	3.1		2.3		2.8			

2 Specifications

EWYA-DV3P, EWAA-DV3P

Technical specifications					EWYA004DV3P		EWYA006DV3P		EWYA008DV3P	
 Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	PERd	%	205.2		219.2		220.8	
		Tbiv	COPd		2.11		2.15		2.66	
		(bivalent tempera- ture)	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	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°CDB/-8°CWB)	Cdh (Degradation heating)		1.0					
		COPd		2.90		2.86		2.77		
		Pdh	kW	5.5		6.0		7.0		
		PERd	%	116.0		114.4		110.8		
	B Con- dition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0						
		COPd		4.33		4.25		4.35		
		Pdh	kW	3.3		3.9		4.2		
	C Con- dition (7°CDB- B/6°CWB)	PERd	%	173.2		170.0		174.0		
		Cdh (Degradation heating)		1.0						
		COPd		6.19		6.30		6.49		
	D Condition (12°CDB/11°CWB)	Pdh	kW	3.2				3.3		
		PERd	%	247.6		252.0		259.6		
		Cdh (Degradation heating)		1.0						
		COPd		7.78				8.52		
		Pdh	kW	3.3				3.9		
		PERd	%	311.2				340.8		
Rated heat output supplementary capacity	Tbiv (bivalent tempera- ture)	Psup (at Tdesign -10°C)	kW	0.78		0.99		1.07		
			COPd		2.90		3.07		2.66	
			Pdh	kW	5.5		6.1		7.5	
		PERd	%	116.0		122.8		106.4		
		Tbiv	°C	-7		-6		-8		
		Tol (tem- perature operat- ing 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						
	Cold climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	151		156		154	

2 Specifications

EWYA-DV3P, EWAA-DV3P

Technical specifications					EWYA004DV3P	EWYA006DV3P	EWYA008DV3P
	Space heating	Average climate water outlet 35°C	Tol (temperature operating limit)	WTOL °C	35		
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	3,208	3,727	5,012
			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	ηs (Seasonal space heating efficiency)	%	251	257	266
			Annual energy consumption	kWh	1,095	1,232	1,393
			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)	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		

Electrical specifications				EWYA004DV3P	EWYA006DV3P	EWYA008DV3P
Power supply	Name			V3		
	Phase			1~		
	Frequency Hz			50		
	Voltage V			230 +/-10%		
Unit	Recommended fuses A			20	25	
Pump Standard	Power supply	Voltage	V	230		
	Current	Maximum running current A		0.7		
Compressor	Phase			3~		
	Voltage V			220		

(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 Combination table

3 - 1 Combination Table

EWAA-DV3P

EWYA-DV3P

3

Kit availability for ·E(WA/WY)A0(04/06/08)D2V3P·

Reference	Description	Notes	E(WA/WY)A0(04/06/08)D2V3P	
			No backup heater	
			Cooling only	Reversible
			EWAA0(04/06/08)D2V3P	EWYA0(04/06/08)D2V3P
EKR1P1HBAA	Digital I/O PCB	(1)	o	o
EKR1P1AHTA	Demand PCB		o	o
BRC1HHDA*	Remote user interface		o	o
BRP069A61	LAN adapter with solar connectivity		o	o
BRP069A62	LAN adapter		o	o
BRP069A78	WLAN cartridge	(2)	o	o
EKRELSG	Relay for Smart Grid		o	o
KRCS01-1	Remote indoor sensor	(3)	o	o
EKRSCA1	Remote sensor for outdoor	(3)	o	o
EKPCCAB4	PC cable kit		o	o
EKCC8-W	Universal centralised user interface		o	o
EKHY3PART	Third-party tank connection kit for thermistor pocket	(4) (6)	-	-
EKHY3PART2	Third-party tank connection kit for thermostat contact	(5) (6)	-	-
EKLBHUCB6W	Backup heater kit	(7)	-	o
EKMBHBP1	Valve kit	(7)	-	o
EKFLSW2	Flow switch	(8)	o	o
AFVALVE1	Freeze protection valve		o	o
EKHWSU150D3V3	Domestic hot water tank ·LT 150 1~230V·		-	-
EKHWSU180D3V3	Domestic hot water tank ·LT 180 1~230V·		-	-
EKHWSU200D3V3	Domestic hot water tank ·LT 200 1~230V·		-	-
EKHWSU250D3V3	Domestic hot water tank ·LT 250 1~230V·		-	-
EKHWSU300D3V3	Domestic hot water tank ·LT 300 1~230V·		-	-
EKHWSU150D3V3	Domestic hot water tank ·LT 150 1~230V·	(only for UK) (9)	-	-
EKHWSU180D3V3	Domestic hot water tank ·LT 180 1~230V·	(only for UK) (9)	-	-
EKHWSU200D3V3	Domestic hot water tank ·LT 200 1~230V·	(only for UK) (9)	-	-
EKHWSU250D3V3	Domestic hot water tank ·LT 250 1~230V·	(only for UK) (9)	-	-
EKHWSU300D3V3	Domestic hot water tank ·LT 300 1~230V·	(only for UK) (9)	-	-
EKHWP300B	Domestic hot water tank ·HT 300·	(10) (11) (12)	-	-
EKHWP500B	Domestic hot water tank ·HT 500·	(10) (11) (12)	-	-
EKHWP300PB	Domestic hot water tank ·HT 300·	(10) (11) (12)	-	-
EKHWP500PB	Domestic hot water tank ·HT 500·	(10) (11) (12)	-	-
EKMIKPOAF	Mixing kit - PCB only		o	o
EKMIKPHAF	Mixing kit - PCB with hydraulics		o	o
EKMIKHMAF	Hydraulics - mixed pump ground	(13)	o	o
EKMIKHUAF	Hydraulics - unmixed pump ground	(13)	o	o
EKMIKBVAF	Balancing vessel		o	o
EKMIKDIAF	Distributor for balancing vessel	(14)	o	o
EKR1TWA	Wired room thermostat		o	o
EKR1TR1, EKR1TRB	Wireless room thermostat		o	o
EKR1TETS	External temperature sensor option kit	(15)	o	o
EKTESE1	Temperature sensor DHW	(16)	-	-
EKTESE2	Temperature sensor DHW	(17)	-	-
EKWUFHTA1V3	Multi zoning kit		-	-

Notes

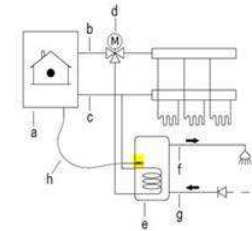
- (1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- (2) This option cannot be installed in certain countries. Refer to the country compliance overview of the option.
- (3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- (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 ·EKEXPVES·.
- (10) Domestic hot water tank with solar connection. Dedicated connection kit available. Other options EKR5P4A* 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 ·EKEPRHLT*· 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*·.

Remark

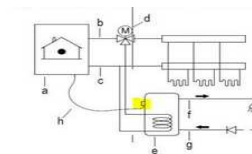
Other combinations than mentioned in this combination table are prohibited.

Notes

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



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



- (6) Conditions for third-party tank

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

4D139435A

4 Capacity tables

4 - 1 Cooling Capacity Tables

EWAA-DV3P

EWYA-DV3P

Maximum cooling capacity													
	T _{amb} [°C]	20		25		30		35		40		43	
	LWE [°C]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]
EW(Y/A)004D*	7	6,26	1,06	5,71	1,12	5,17	1,18	4,62	1,24	3,49	1,14	2,82	1,07
	10	6,53	0,95	6,02	1,03	5,51	1,12	5,00	1,20	3,82	1,09	3,11	1,02
	13	6,79	0,85	6,32	0,95	5,85	1,05	5,38	1,15	4,14	1,04	3,39	1,00
	15	7,05	0,80	6,57	0,91	6,10	1,01	5,62	1,12	4,43	1,03	3,72	1,00
	18	7,43	0,74	6,95	0,84	6,46	0,95	5,98	1,06	4,88	1,02	4,23	1,00
EW(Y/A)006D*	7	7,80	1,50	7,06	1,54	6,31	1,57	5,57	1,60	3,96	1,31	2,99	1,16
	10	8,40	1,46	7,61	1,50	6,82	1,54	6,03	1,57	4,51	1,31	3,60	1,16
	13	9,01	1,43	8,17	1,46	7,33	1,50	6,49	1,54	5,06	1,31	4,21	1,16
	15	9,36	1,37	8,53	1,42	7,70	1,48	6,87	1,54	5,40	1,31	4,51	1,16
	18	9,88	1,28	9,07	1,36	8,26	1,45	7,45	1,54	5,90	1,31	4,97	1,16
EW(Y/A)008D*	7	8,78	1,76	7,97	1,81	7,16	1,86	6,83	2,35	4,24	1,40	2,97	1,09
	10	9,58	1,79	8,71	1,84	7,85	1,89	7,44	2,32	4,78	1,40	3,45	1,08
	13	10,37	1,82	9,45	1,86	8,54	1,91	8,06	2,29	5,31	1,41	3,92	1,08
	15	10,94	1,78	9,96	1,83	8,98	1,88	8,47	2,27	5,62	1,39	4,19	1,07
	18	11,79	1,74	10,72	1,78	9,64	1,83	9,09	2,23	6,07	1,37	4,58	1,07
EW(Y/A)010D*	7	12,94	1,67	11,73	1,71	10,52	1,76	9,91	2,19	6,68	1,34	5,10	1,06

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.

3D146613

4 Capacity tables

4 - 2 Heating Capacity Tables

EWYA-DV3P

Maximum heating capacity - integrated value													
	LWC [°C]	30°C		35°C		40°C		45°C		50°C		55°C	
	T _{amb} [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
EWYA008D*	-20	6,22	3,21	6,14	3,43	6,06	3,66	5,98	3,89	5,89	4,11		
	-15	6,62	2,88	6,58	3,16	6,53	3,44	6,48	3,72	6,33	4,02	6,33	4,27
	-7	7,27	2,37	7,28	2,73	7,29	3,08	7,30	3,44	7,02	3,86	6,74	4,28
	-2	7,23	2,11	7,24	2,41	7,26	2,72	7,27	3,02	7,05	3,37	6,83	3,72
	2	7,20	1,90	7,22	2,16	7,23	2,42	7,25	2,68	7,07	2,97	6,90	3,27
	7	9,63	1,84	9,37	2,08	9,12	2,31	8,86	2,55	8,74	3,00	8,61	3,45
	12	9,52	1,49	9,21	1,71	8,91	1,93	8,60	2,14	8,42	2,42	8,25	2,71
	15	9,22	1,30	8,82	1,50	8,42	1,70	8,02	1,90	7,79	2,16	7,55	2,42
20	8,71	0,97	8,16	1,14	7,60	1,32	7,04	1,49	6,72	1,71	6,40	1,93	
EWYA006D*	-20	5,19	2,65	5,13	2,82	5,08	3,00	5,02	3,17	5,00	3,44		
	-15	5,59	2,38	5,56	2,60	5,53	2,83	5,50	3,05	5,22	3,35	4,91	3,54
	-7	6,24	1,95	6,25	2,25	6,25	2,56	6,26	2,86	5,58	3,21	4,91	3,54
	-2	6,22	1,72	6,20	1,97	6,19	2,22	6,17	2,48	5,74	2,75	5,32	3,03
	2	6,20	1,53	6,17	1,74	6,13	1,95	6,10	2,17	5,87	2,39	5,65	2,61
	7	7,92	1,45	7,74	1,63	7,57	1,82	7,40	2,01	7,22	2,26	7,03	2,51
	12	7,79	1,06	7,52	1,27	7,26	1,47	6,99	1,68	6,76	1,92	6,54	2,16
	15	7,60	0,95	7,25	1,13	6,89	1,30	6,54	1,48	6,17	1,70	5,81	1,92
20	7,29	0,77	6,79	0,89	6,29	1,02	5,78	1,14	5,19	1,33	4,60	1,51	
EWYA004D*	-20	4,38	2,43	4,29	2,45	4,21	2,47	4,13	2,48	3,99	2,82		
	-15	4,78	2,14	4,71	2,24	4,64	2,35	4,58	2,45	4,25	2,78	3,94	2,98
	-7	5,43	1,66	5,38	1,91	5,34	2,16	5,30	2,40	4,65	2,72	4,00	3,03
	-2	5,49	1,48	5,43	1,68	5,36	1,87	5,30	2,07	4,85	2,33	4,40	2,59
	2	5,60	1,40	5,46	1,49	5,38	1,64	5,30	1,80	5,01	2,02	4,73	2,23
	7	6,65	1,11	6,41	1,30	6,25	1,48	6,08	1,65	5,91	1,84	5,73	2,03
	12	6,32	0,86	6,07	1,01	5,76	1,15	5,46	1,29	5,23	1,48	4,99	1,67
	15	6,04	0,73	5,72	0,86	5,40	1,00	5,08	1,13	4,62	1,28	4,17	1,42
20	5,49	0,50	5,15	0,63	4,80	0,75	4,45	0,87	3,62	0,94	2,80	1,01	

Maximum heating capacity - peak values													
	LWC [°C]	30°C		35°C		40°C		45°C		50°C		55°C	
	T _{amb} [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]
EWYA008D*	-20	6,87	3,40	6,75	3,60	6,62	3,81	6,50	4,01	6,37	4,22		
	-15	7,52	3,11	7,36	3,35	7,20	3,60	7,04	3,85	6,78	4,11		
	-7	8,55	2,64	8,33	2,95	8,12	3,27	7,90	3,58	7,44	3,94	6,98	4,30
	-2	9,06	2,31	8,82	2,62	8,58	2,93	8,34	3,25	7,99	3,58	7,64	3,91
	2	9,46	2,05	9,20	2,36	8,94	2,67	8,69	2,98	8,43	3,28	8,17	3,59
	7	9,63	1,84	9,37	2,08	9,12	2,31	8,86	2,55	8,74	3,00	8,61	3,45
	12	9,52	1,49	9,21	1,71	8,91	1,93	8,60	2,14	8,42	2,42	8,25	2,71
	15	9,22	1,30	8,82	1,50	8,42	1,70	8,02	1,90	7,79	2,16	7,55	2,42
20	8,71	0,97	8,16	1,14	7,60	1,32	7,04	1,49	6,72	1,71	6,40	1,93	
EWYA006D*	-20	5,93	2,80	5,83	2,94	5,72	3,07	5,62	3,21	5,40	3,44		
	-15	6,54	2,54	6,37	2,73	6,20	2,91	6,03	3,10	5,68	3,39		
	-7	7,50	2,12	7,23	2,39	6,96	2,66	6,69	2,92	6,12	3,31	5,55	3,69
	-2	7,64	1,88	7,40	2,12	7,17	2,36	6,93	2,60	6,49	2,91	6,06	3,21
	2	7,75	1,70	7,54	1,91	7,33	2,13	7,12	2,35	6,79	2,59	6,46	2,83
	7	7,92	1,45	7,74	1,63	7,57	1,82	7,40	2,01	7,22	2,26	7,03	2,51
	12	7,75	1,08	7,49	1,28	7,24	1,48	6,99	1,68	6,76	1,92	6,54	2,16
	15	7,58	0,96	7,23	1,13	6,88	1,31	6,54	1,48	6,17	1,70	5,81	1,92
20	7,29	0,77	6,79	0,89	6,29	1,02	5,78	1,14	5,19	1,33	4,60	1,51	
EWYA004D*	-20	4,71	2,50	4,67	2,50	4,64	2,50	4,61	2,62	4,23	2,86		
	-15	5,19	2,20	5,11	2,32	5,03	2,45	4,95	2,57	4,53	2,86		
	-7	5,95	1,82	5,80	2,04	5,65	2,26	5,50	2,48	4,98	2,86	4,45	3,23
	-2	6,29	1,59	6,13	1,78	5,96	1,98	5,79	2,18	5,37	2,47	4,94	2,75
	2	6,57	1,40	6,39	1,58	6,21	1,76	6,03	1,94	5,68	2,15	5,33	2,37
	7	6,65	1,11	6,41	1,30	6,25	1,48	6,08	1,65	5,91	1,84	5,73	2,03
	12	6,32	0,86	6,07	1,01	5,76	1,15	5,46	1,29	5,23	1,48	4,99	1,67
	15	6,04	0,73	5,72	0,86	5,40	1,00	5,08	1,13	4,62	1,28	4,17	1,42
20	5,49	0,50	5,15	0,63	4,80	0,75	4,45	0,87	3,62	0,94	2,80	1,01	

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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4 Capacity tables

4 - 3 Heating Capacity Tables - More Quiet Mode

EWYA-DV3P

Maximum heating capacity - integrated value																									
	LWC [°C]	30°C				35°C				40°C				45°C				50°C				55°C			
	T _{amb} [°C]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]	HC [kW]	PI [kW]				
EWYA08BD*	-20	5,70	2,86	5,31	2,89	4,96	2,91	4,64	2,94	4,36	2,96														
	-15	6,07	2,58	6,01	2,83	5,27	2,71	4,90	2,74	4,48	2,77	4,26	2,77												
	-7	6,68	2,13	6,62	2,45	6,63	2,77	5,95	2,74	5,22	2,79	4,61	2,84												
	-2	6,66	1,98	6,46	2,15	6,48	2,42	6,50	2,69	5,80	2,80	5,16	2,83												
	2	6,66	1,87	6,33	1,91	6,36	2,14	6,39	2,37	6,25	2,63	5,40	2,63												
	7	8,32	1,59	8,10	1,79	7,88	2,00	7,66	2,20	7,55	2,59	7,44	2,59												
	12	8,23	1,29	7,96	1,48	7,70	1,66	7,44	1,85	7,28	2,10	7,13	2,34												
	15	7,97	1,12	7,62	1,29	7,27	1,47	6,93	1,64	6,73	1,86	6,53	2,09												
20	7,53	0,84	7,05	0,99	6,57	1,14	6,08	1,29	5,81	1,48	5,53	1,67													
EWYA08GD*	-20	4,62	2,39	4,57	2,54	4,52	2,69	4,47	2,84	4,45	3,09														
	-15	5,04	2,16	5,02	2,35	4,99	2,55	4,97	2,75	4,62	2,97	3,91	3,30												
	-7	5,72	1,78	5,74	2,06	5,75	2,34	5,76	2,62	4,88	2,78	4,00	2,94												
	-2	5,76	1,60	5,65	1,76	5,62	1,98	5,58	2,20	5,09	2,38	4,59	2,55												
	2	5,79	1,46	5,58	1,53	5,51	1,70	5,44	1,86	5,25	2,06	5,07	2,25												
	7	6,72	1,19	6,57	1,35	6,43	1,50	6,28	1,66	6,12	1,86	5,96	2,07												
	12	6,57	0,89	6,36	1,05	6,15	1,22	5,93	1,39	5,74	1,59	5,55	1,79												
	15	6,43	0,79	6,13	0,94	5,84	1,08	5,55	1,22	5,24	1,40	4,93	1,58												
20	6,19	0,64	5,76	0,74	5,33	0,84	4,91	0,94	4,41	1,09	3,90	1,25													
EWYA08ID*	-20	4,21	2,34	4,12	2,36	4,04	2,37	3,96	2,39	3,84	2,71														
	-15	4,57	2,04	4,53	2,15	4,49	2,26	4,45	2,37	4,11	2,68	3,78	3,10												
	-7	5,16	1,56	5,18	1,82	5,20	2,08	5,22	2,35	4,53	2,62	3,85	2,90												
	-2	5,18	1,35	5,12	1,51	5,05	1,70	4,98	1,89	4,57	2,24	4,15	2,48												
	2	5,20	1,19	5,07	1,27	4,93	1,40	4,79	1,53	4,59	1,72	4,39	1,91												
	7	5,87	0,99	5,66	1,16	5,52	1,31	5,37	1,46	5,22	1,63	5,06	1,80												
	12	5,58	0,77	5,36	0,89	5,09	1,02	4,82	1,14	4,61	1,31	4,41	1,48												
	15	5,33	0,65	5,05	0,77	4,77	0,88	4,49	1,00	4,08	1,13	3,68	1,26												
20	4,85	0,45	4,54	0,56	4,24	0,66	3,93	0,77	3,20	0,83	2,47	0,89													

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]
 T_{amb} Ambient temperature; RH (heating) = 85%

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3^{\circ}\text{C}$ ~ 8°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 $\Delta T = 3^{\circ}\text{C}$ ~ 8°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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4 Capacity tables

4 - 4 Certification Programs

EWAA-DV3P

EWYA-DV3P

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°C]	LWC [°C]	EWYA004D2V3P		EWYA006D2V3P		EWYA008D2V3P	
			HC [kW]	COP	HC [kW]	COP	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]	EW(Y/A)A004D2V3P		EW(Y/A)A006D2V3P		EW(Y/A)A008D2V3P	
			CC [kW]	EER	CC [kW]	EER	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		
		EW(Y/A)A004D2V3P	EW(Y/A)A006D2V3P	EW(Y/A)A008D2V3P
SEER	[-]	5,25	5,31	5,36
Pdes	[kW]	4,5	5,1	5,4
$\eta_{s,c}$	[-]	210%	212%	215%
Q _{ce}	[kWh/annum]	518	576	609

Rated data for sound GET database

Standard sound model		EW(Y/A)A004D2V3P	EW(Y/A)A006D2V3P	EW(Y/A)A008D2V3P
Maximum sound day	Sound power [dBA]	60	62	65
Maximum sound night	Sound power [dBA]	54	54	54

Low sound model		EW(Y/A)A004D2V3P	EW(Y/A)A006D2V3P	EW(Y/A)A008D2V3P
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]
- $\eta_{s,c}$ Seasonal space cooling energy efficiency according to EN14825
- SEER Seasonal energy efficiency ratio according to EN14825
- Q_{ce} Annual energy consumption for cooling according to EN14825

3D139369

EWAA-DV3P

EWYA-DV3P

Rated data for certification programmes - heating mode

Measured according to UNI/TS 11300

Condition	Tamb [°C]	LWC [°C]	PLR [%]	EWYA004D2V3P		EWYA006D2V3P		EWYA008D2V3P	
				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 [%]	EW(Y/A)A004D2V3P		EW(Y/A)A006D2V3P		EW(Y/A)A008D2V3P	
				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

3D141411

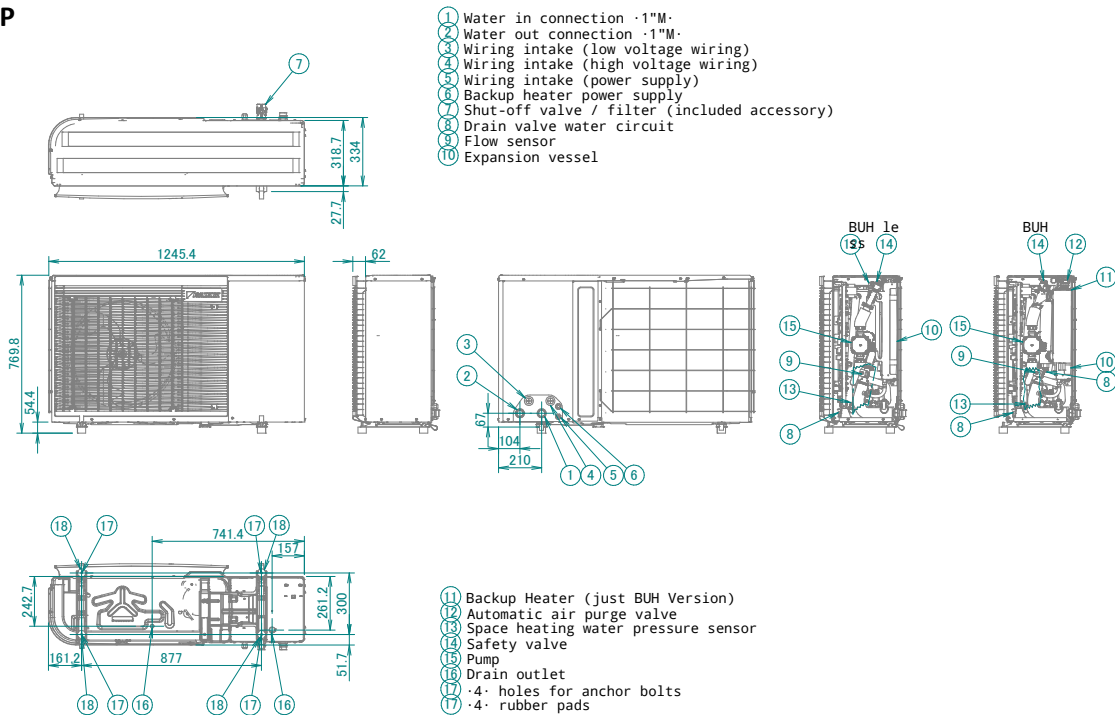
5 Dimensional drawings

5 - 1 Dimensional Drawings

5

EWAA-DV3P

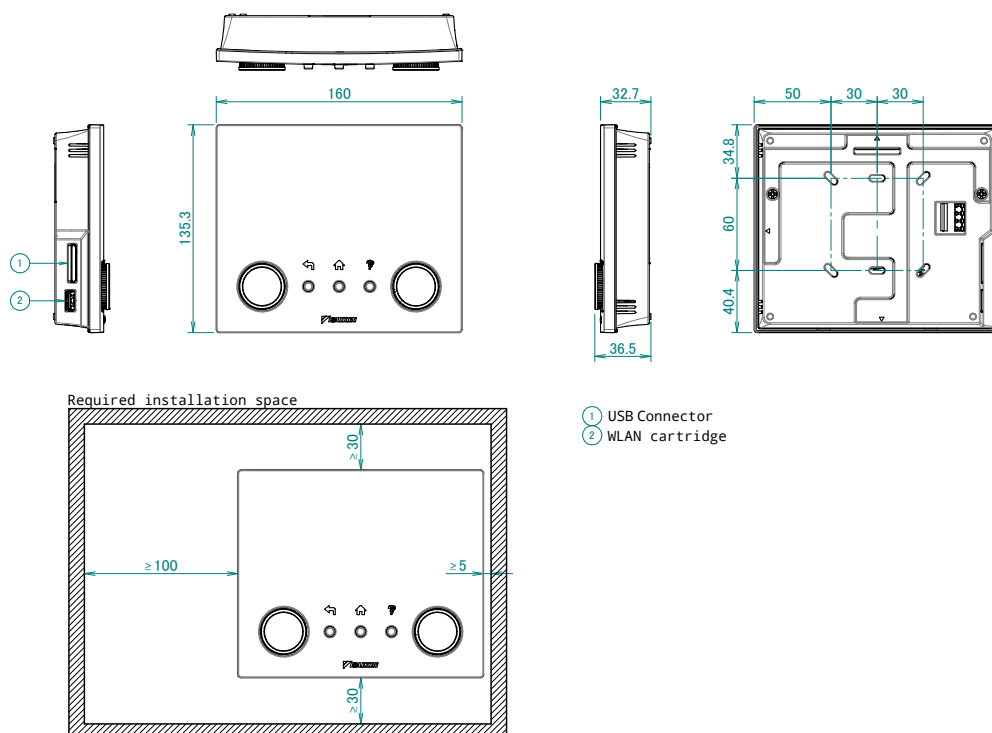
EWYA-DV3P



3D139356

EWAA-DV3P

EWYA-DV3P



3D132732

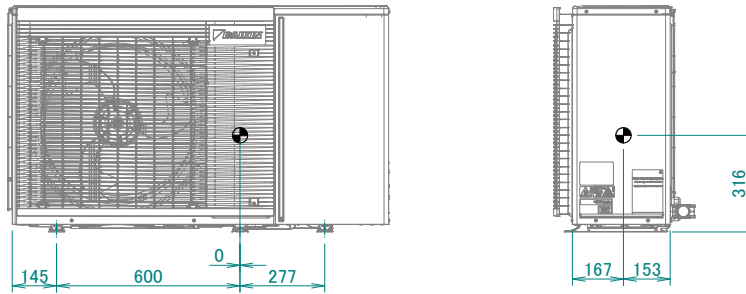
6 Centre of gravity

6 - 1 Centre of Gravity

6

EWAA-DV3P

EWYA-DV3P



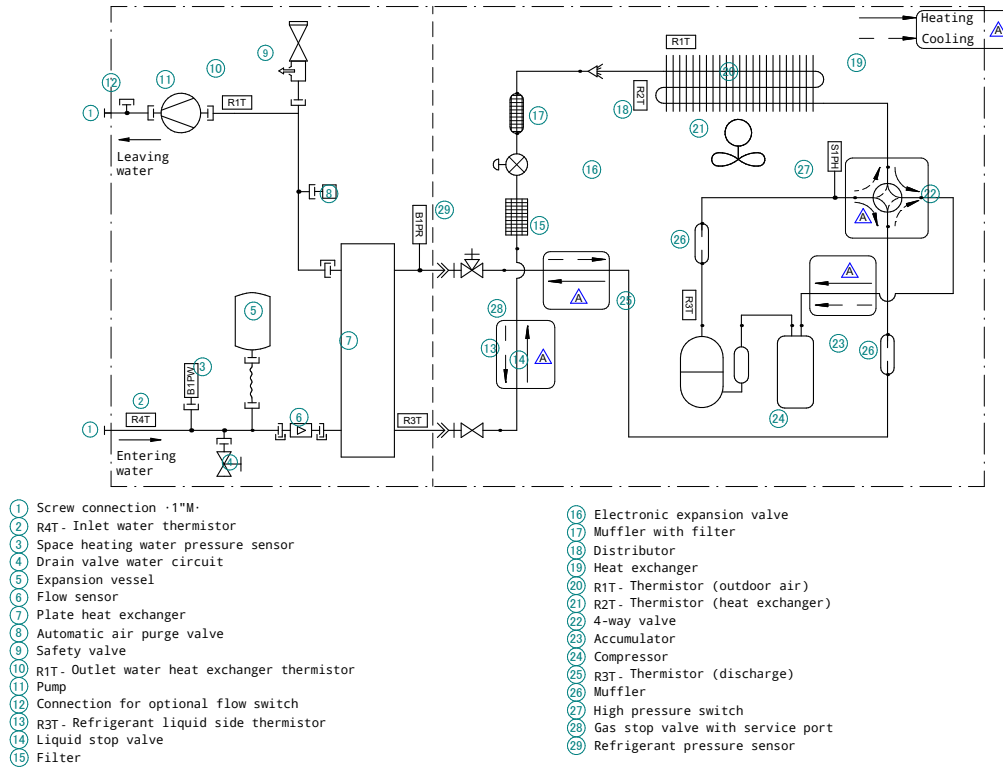
3D139363

7 Piping diagrams

7 - 1 Piping Diagrams

EWAA-DV3P
EWYA-DV3P

	Screw connection		Brazed connection
	Quick coupling		Flare connection



3D139353A

8 Wiring diagrams

8 - 1 Notes & Legend

EWAA-DV3P / EWYA-DV3P

(2) NOTES

X14M, X15M : Main terminal

: Earth wiring

15 : Wire number 15

: Field supply

**/12.2

① : Several wiring possibilities



: Option



: Wiring depending on model



: Not mounted in switch box



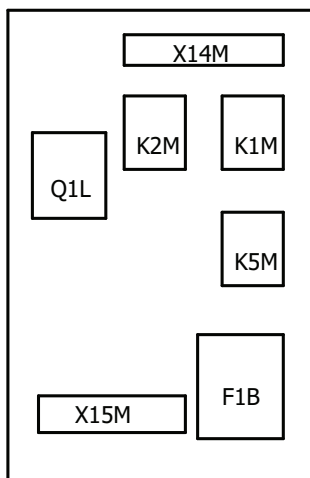
: PCB

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

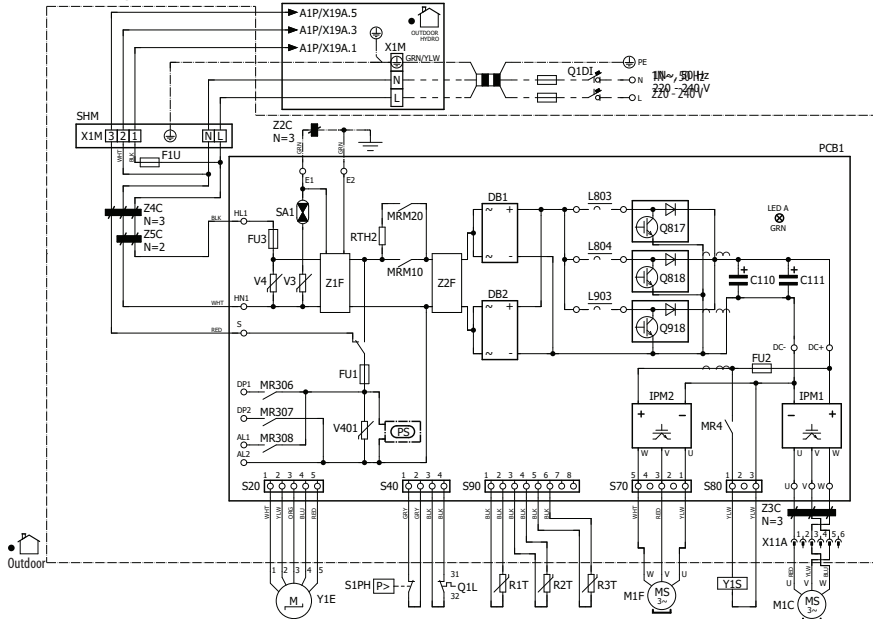
4D140002D

8 Wiring diagrams

8 - 2 Compressor - Single phase

EWAA-DV3P / EWYA-DV3P

(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
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

4D140002D

8 Wiring diagrams

8 - 3 Hydro Module - Notes & Legend

EWAA-DV3P / EWYA-DV3P

NOTES to go through before starting the unit

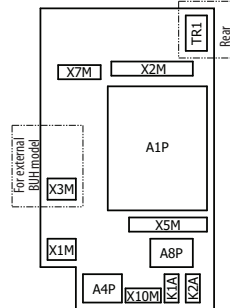
X1M	: Main terminal		: Option
X2M	: Field wiring terminal for AC		
X3M	: External backup heater terminal		: Wiring depending on model
X5M	: Field wiring terminal for DC		
X10M	: Smartgrid terminal		: Not mounted in switch box
---	: Earth wiring		
---	: Field supply		
①	**/12.2		: Several wiring possibilities
			: PCB

NOTES

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

User installed options:	☐ External backup heater ☐ Remote user interface ☐ Ext. indoor thermistor ☐ Ext. outdoor thermistor ☐ Digital I/O PCB ☐ Demand PCB ☐ Smart grid ☐ WLAN cartridge ☐ Bypass kit ☐ LAN adapter ☐ BZ mixing kit
Main LWT:	☐ ON/OFF thermostat (wired) ☐ ON/OFF thermostat (wireless) ☐ Ext. thermistor
Add LWT:	☐ ON/OFF thermostat (wired) ☐ ON/OFF thermostat (wireless) ☐ Ext. thermistor

POSITION IN SWITCH BOX



LEGEND

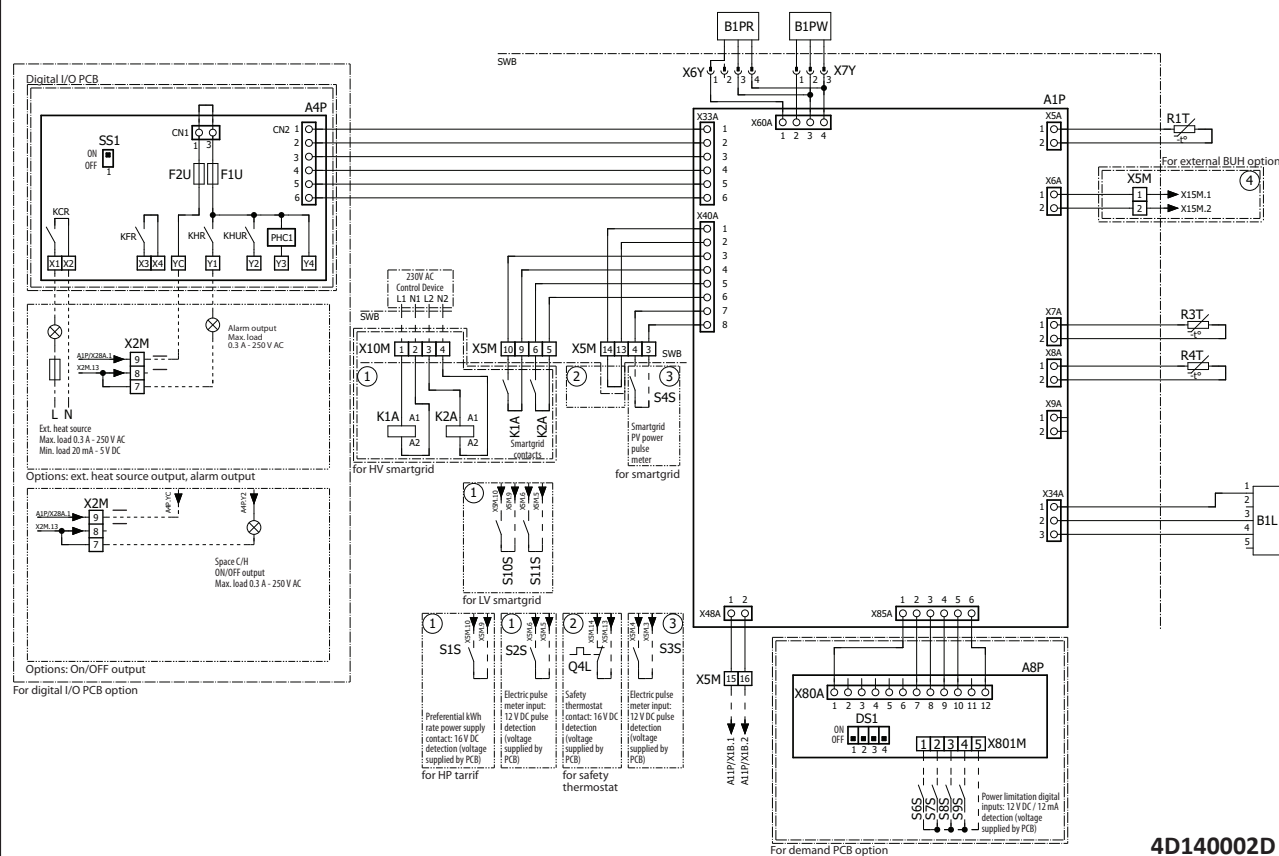
Part n°	Description	Part n°	Description
A1P	main PC	Q*DI	# earth leakage circuit breaker
A2P	* ON/OFF thermostat (PC=power circuit)	R1H (A2P)	* humidity sensor
A4P	* digital I/O PCB	R1T (A1P)	outlet water heat exchanger thermistor
A8P	* demand PCB	R1T (A2P)	* ambient sensor ON/OFF thermostat
A11P	MMI main PCB	R1T (A14P)	* ambient sensor user interface
A13P	* LAN adapter	R2T (A2P)	* external sensor (floor or ambient)
A14P	* user interface PCB	R3T	refrigerant liquid side thermistor
A15P	* receiver PCB (wireless ON/OFF thermostat)	R4T	inlet water thermistor
A30P	* BZ mixing kit PCB	R6T	* external indoor or outdoor ambient thermistor
B1L	flow sensor	S1L	* flow switch
B1PR	refrigerant pressure sensor	S1S	# preferential kWh rate PS contact
B1PW	water pressure sensor	S*T	thermostat
CN* (A4P)	* connector	S2S	# electrical meter pulse input 1
DS1 (A8P)	* dipswitch	S3S	# electrical meter pulse input 2
E*P (A9P)	indication LED	S4S	# smart grid feed-in
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB	S6S-S9S	* digital power limitation inputs
FU1 (A1P)	fuse T 5 A 250 V for PCB	S10S-S11S	# low voltage smartgrid contact
K1A, K2A	* high voltage smartgrid relay	SS1 (A4P)	* selector switch
K*R (A1P-A4P)	relay on PCB	SW1-2 (A11P)	turn buttons
M1P	main supply pump	SW3-5 (A11P)	push button
M2S	# 2 way valve for cooling mode	TR1	power supply transformer
M4S	* valve kit	X6M, X8M	# power supply terminal strip client
P1M	MMI display	X10M	* smartgrid power supply terminal strip
PC (A15P)	* power circuit	X*, X*A, X*Y	connector
PHC1 (A4P)	* optocoupler input circuit	X*M	terminal strip
Q4L	# safety thermostat		

*: optional

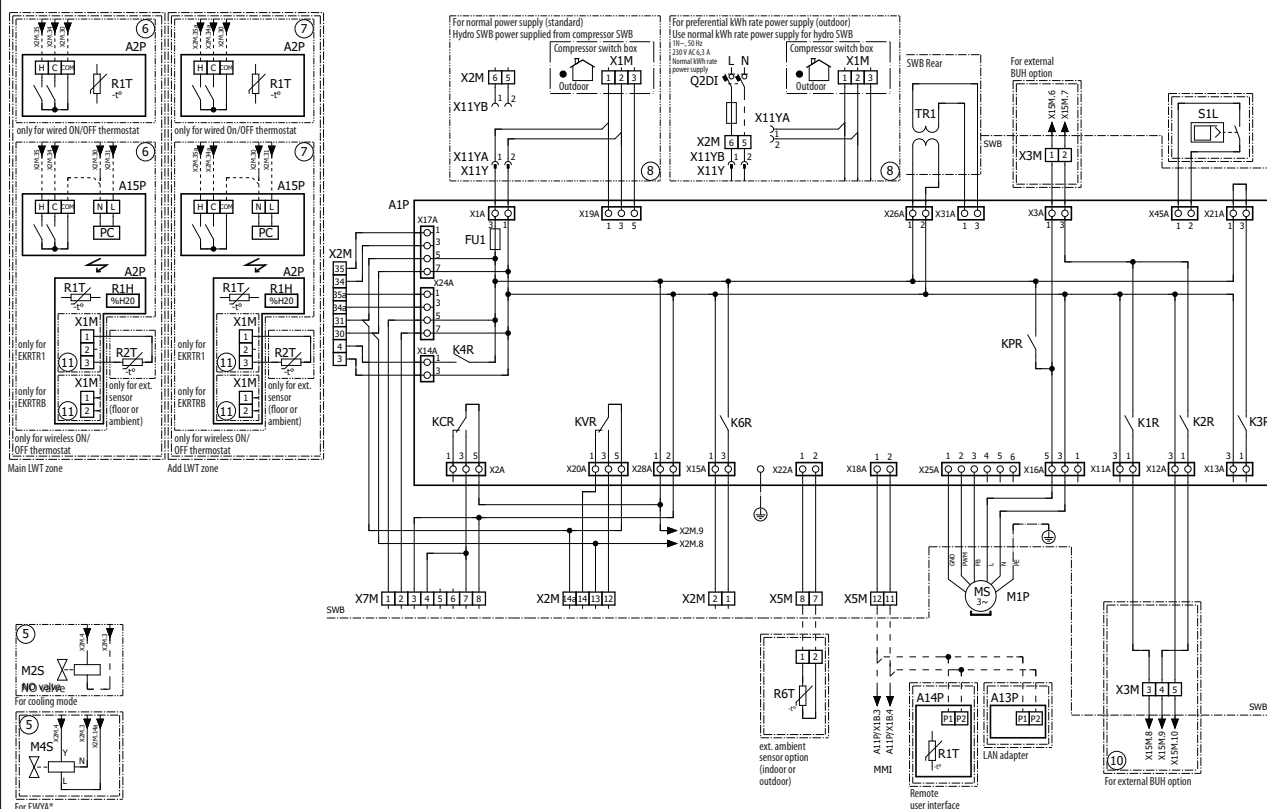
#: field supply

4D140002D

8



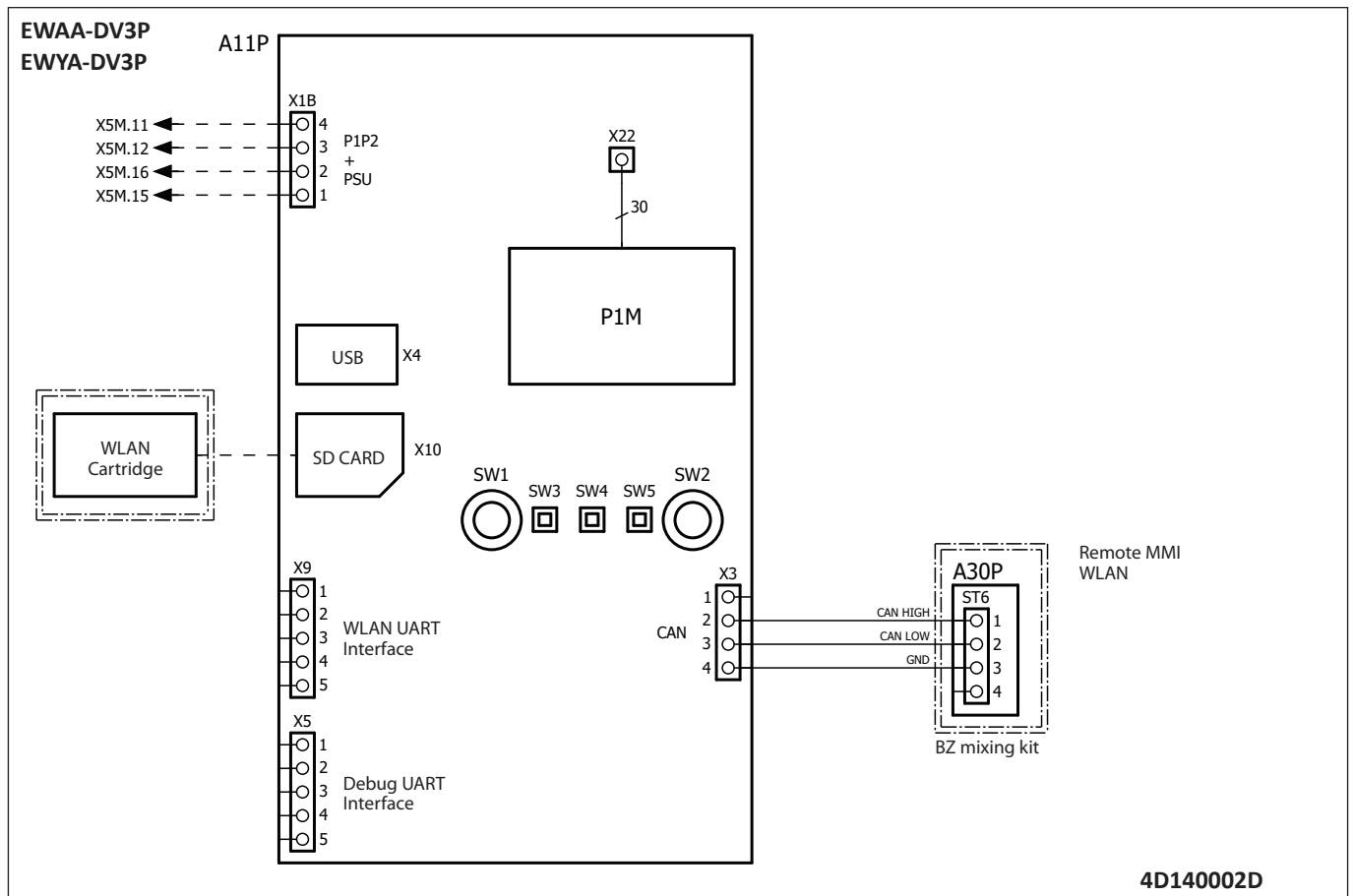
4D140002D



4D140002D

8 Wiring diagrams

8 - 4 Hydro Module - Control Circuit

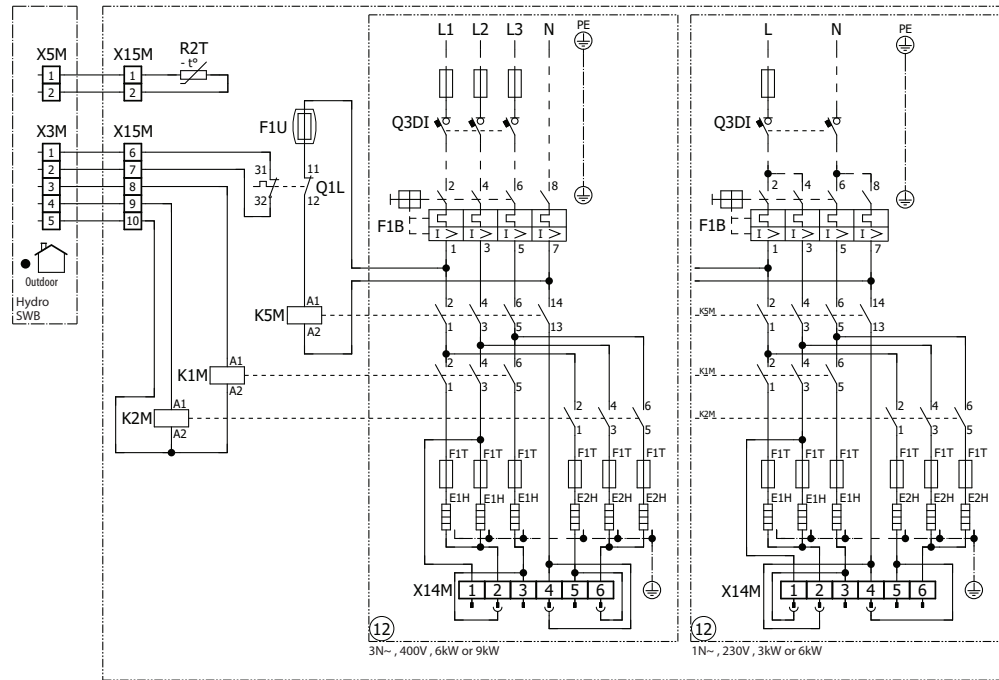


8 Wiring diagrams

8 - 5 External back-up heater - Option Circuit

EWAA-DV3P
EWYA-DV3P

(1) Connection diagram



BUH Option (EKLBUHCB6W1)

4D140002D

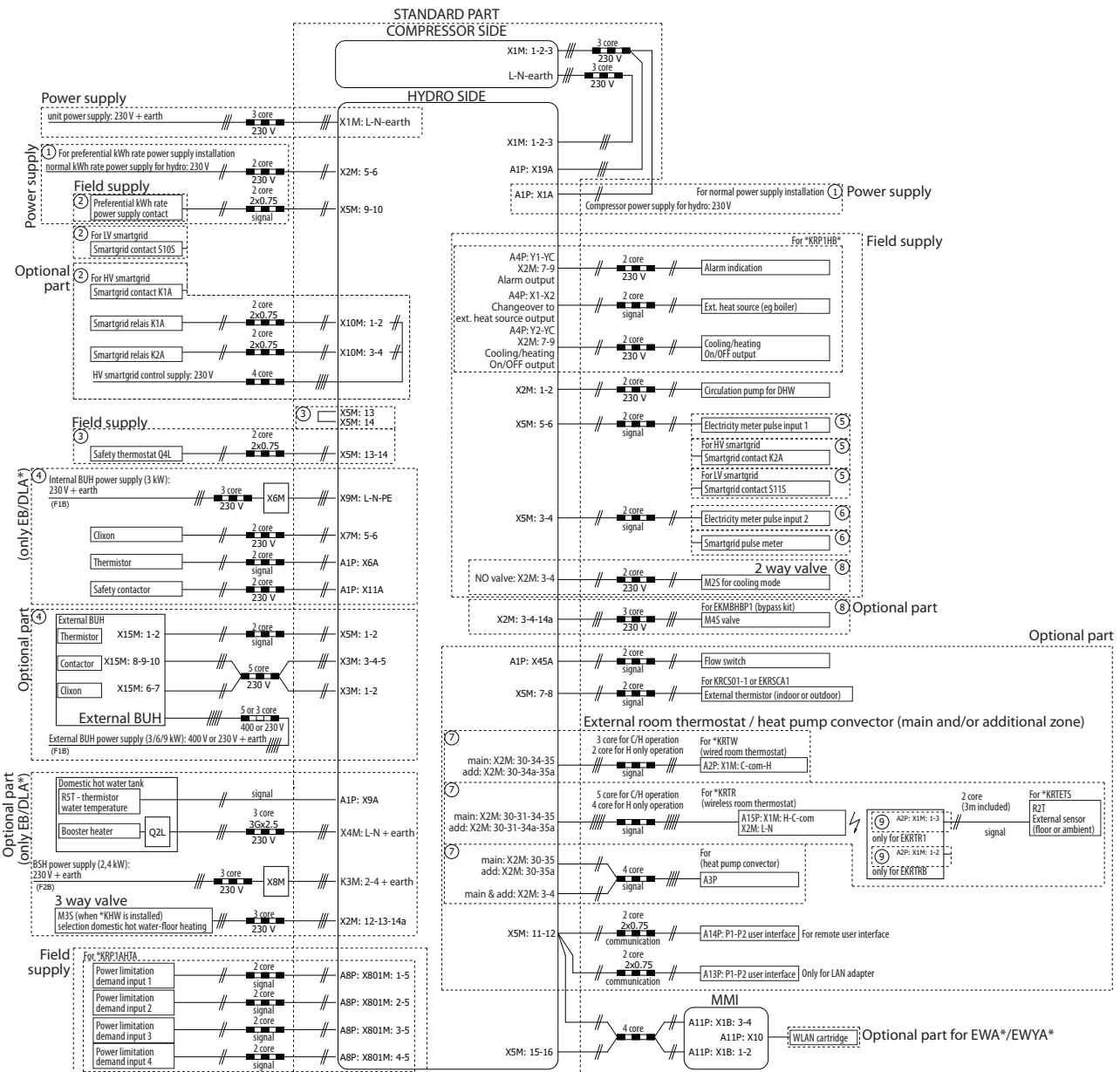
9 External connection diagrams

9 - 1 External Connection Diagrams

EWAA-DV3P

EWYA-DV3P

Electrical connection diagram Daikin Monobloc/Minichiller BML



NOTE

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

For more details please check unit wiring

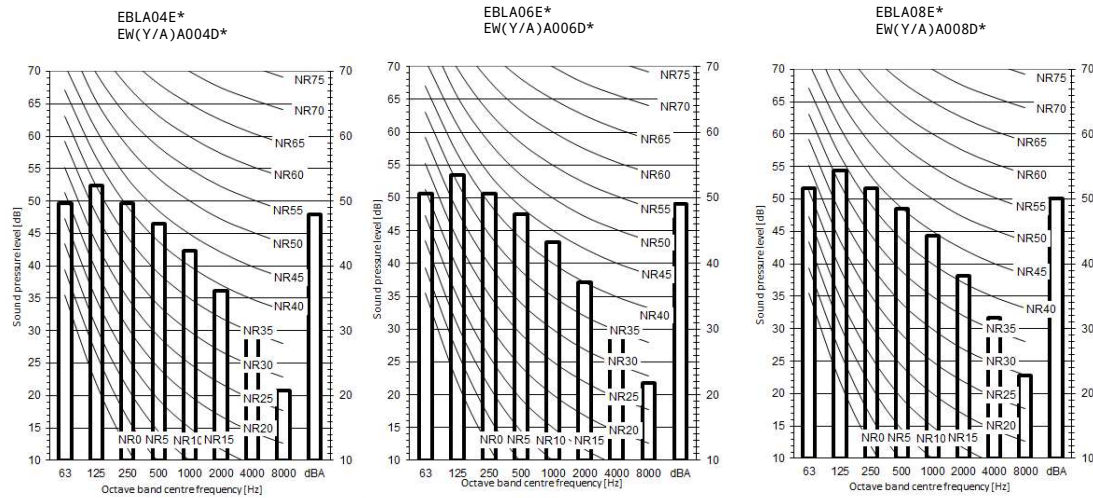
4D139354A

10 Sound data

10 - 1 Sound Pressure Spectrum - Cooling

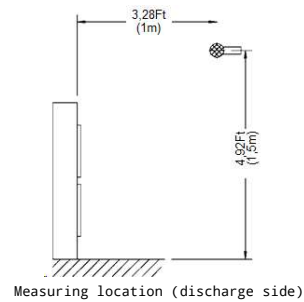
EWAA-DV3P
EWYA-DV3P

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.



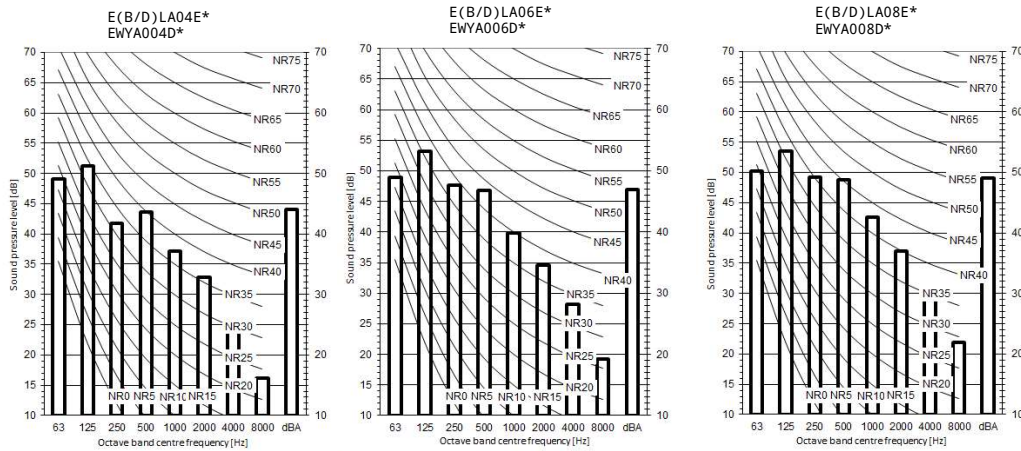
3D140608

10 Sound data

10 - 2 Sound Pressure Spectrum - Heating

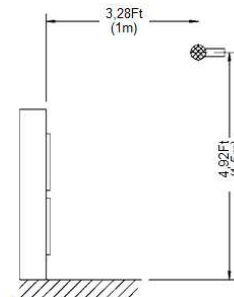
EWYA-DV3P

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)

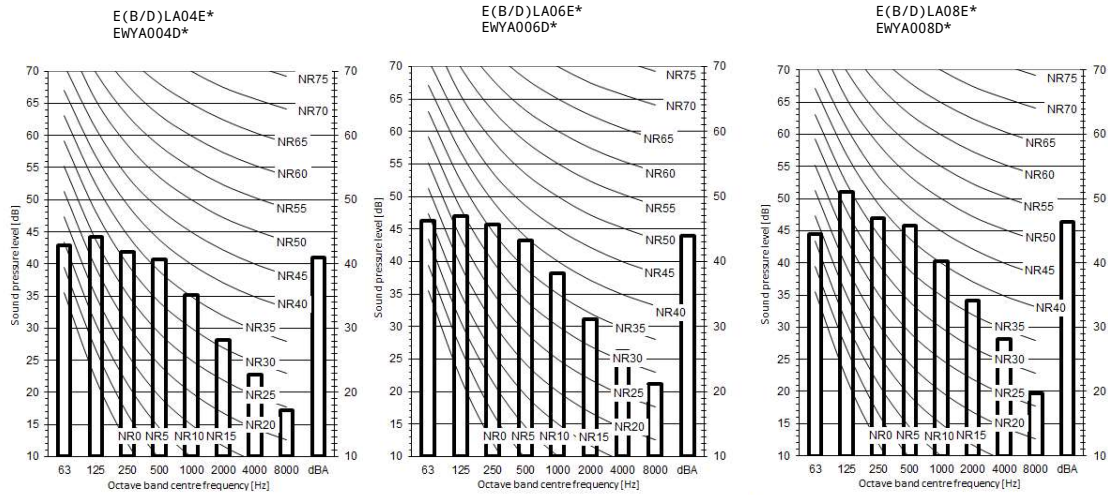
3D140605

10 Sound data

10 - 3 Sound Pressure Spectrum Quiet Mode

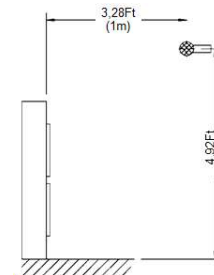
EWYA-DV3P

Heating more quiet mode



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.

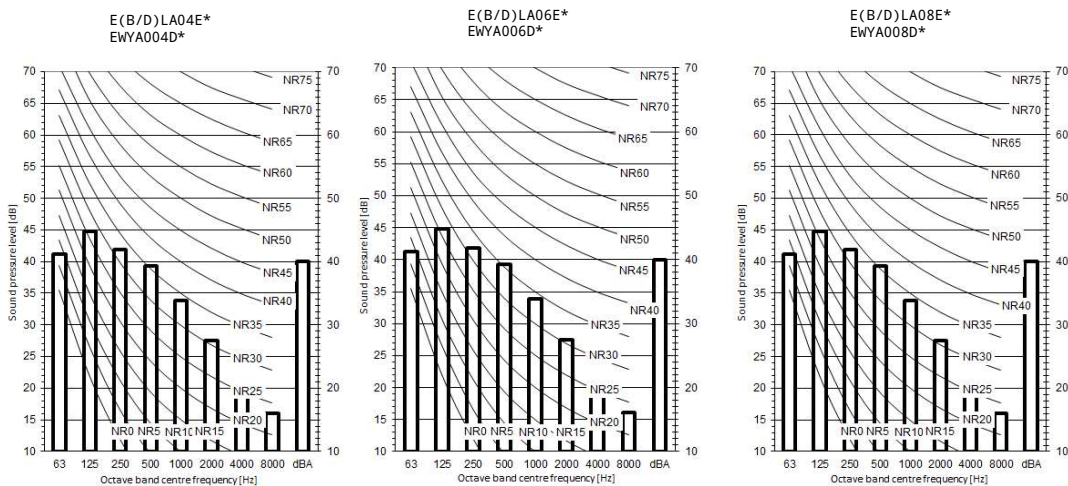


Measuring location (discharge side)

3D140606

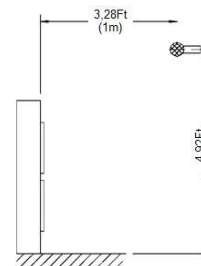
EWYA-DV3P

Heating most quiet mode



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)

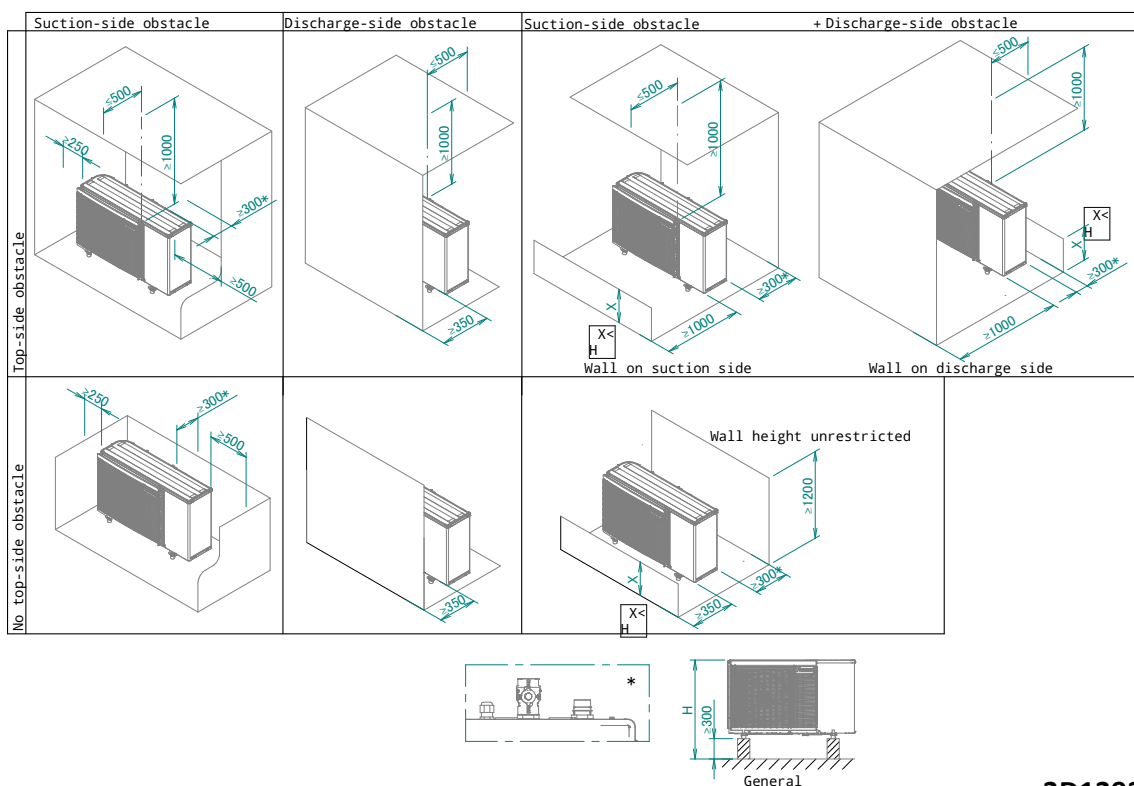
3D140607

11 Installation

11 - 1 Installation Method

11

EWAA-DV3P
EWYA-DV3P

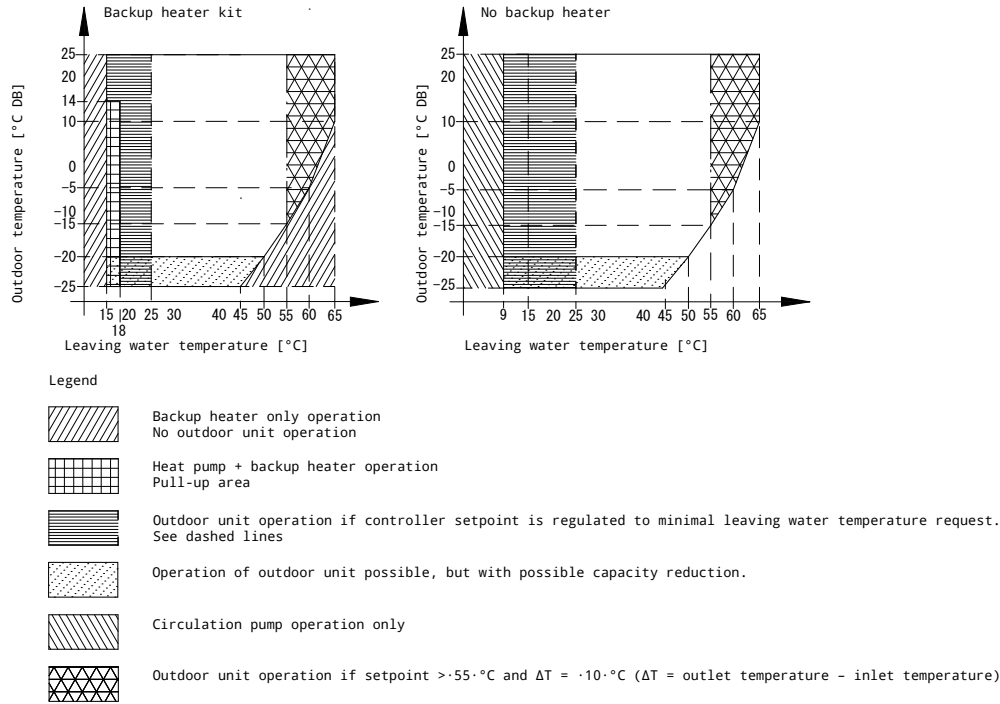


3D139357

12 Operation range

12 - 1 Operation Range

EWYA-DV3P



Notes

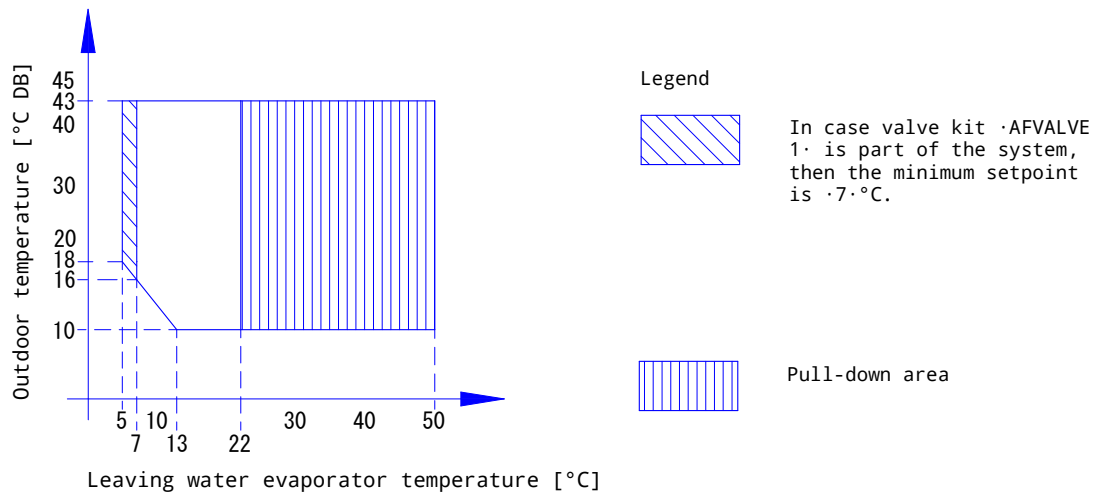
1.If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.

For more information, refer to the installation manual.

2.In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

3D139429A

EWAA-DV3P EWYA-DV3P



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

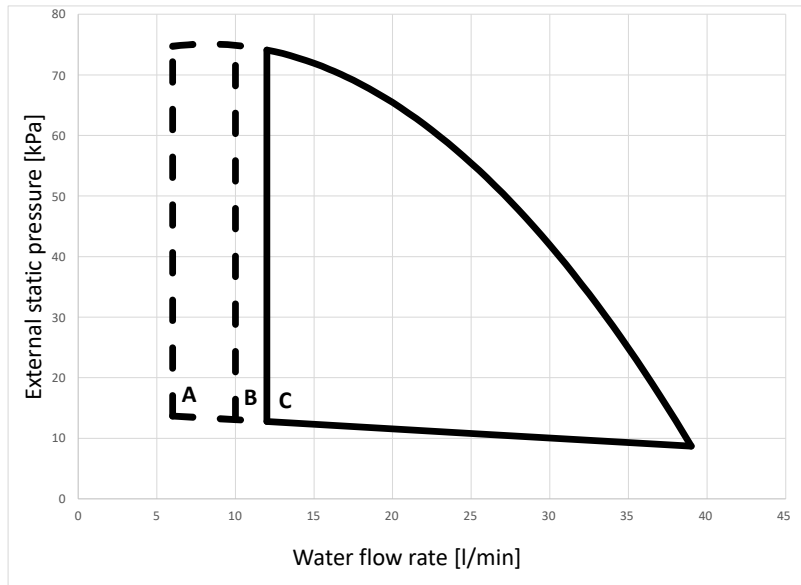
13 Hydraulic performance

13 - 1 Static Pressure Drop Unit

EWAA-DV3P

EWYA-DV3P

13



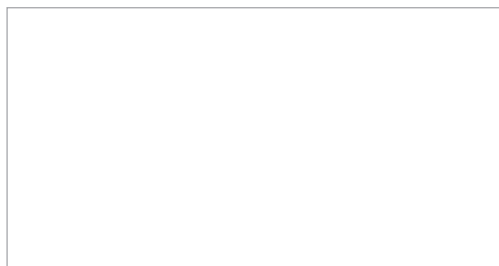
- A = Minimum water flow rate during normal operation
B = Minimum water flow rate during Cooling operation
C = Minimum water flow rate during Defrost and Backup heater operation

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

4D139364

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