Air cooled mini inverter chiller Technical Data

EWAA-DW1P(-H) / EWAA-DV3P(-H) / EWYA-DW1P(-H-) / EWYA-DV3P(-H-)

EWAA011DAW1P
EWAA014DAW1P
EWAA016DAW1P
EWAA011DAV3P
EWAA014DAV3P
EWAA016DAV3P
EWAA011DAW1P-H-
EWAA014DAW1P-H-
EWAA016DAW1P-H-
EWAA011DAV3P-H-
EWAA014DAV3P-H-
EWAA016DAV3P-H-
EWYA009DAW1P
EWYA011DAW1P
EWYA014DAW1P
EWYA016DAW1P
EWYA009DAV3P
EWYA011DAV3P
EWYA014DAV3P
EWYA016DAV3P
EWYA009DAW1P-H-
EWYA011DAW1P-H-
EWYA014DAW1P-H-
EWYA016DAW1P-H-
EWYA009DAV3P-H-
EWYA011DAV3P-H-
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1 Features

1 - 1 EWYA-DV3P-H-,EWYA-DV3P,EWAA-DV3P,EWAA-DV3P-H,EWYA-DW1P,EWYA-DW1P-H-,EWAA-DW1P-H,EWAA-DW1P

- 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

Inverter


Swing compressor

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DW1P	EWAA014DW1P	EWAA016DW1P
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Capacity control	Method				Variable (inverter)		
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
EER					3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
SEER					5.79 (3)	5.71 (3)	5.59 (3)
Dimensions	Packed unit	Depth		mm	650		
		Height		mm	1,053		
		Width		mm	1,500		
	Unit	Depth		mm	460		
		Height		mm	870		
		Width		mm	1,380		
Weight	Packed unit			kg	164		
	Unit			kg	147		
Packing	Material				PE wrapping foil / Carton / Wood		
	Weight			kg	17		
Casing	Colour				Ivory white		
	Material				Polyester painted galvanised steel plate		
Water heat exchanger	Quantity				1		
	Type				Plate heat exchanger		
	Filter	Diameter perforations		mm	0.8		
		Material			Stainless steel		
	Minimum water volume in the system			l	20 (4)		
	Water flow rate	Cooling	Nom.	l/min	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
	Water volume			l	2		
	Insulation material				Kaiflex		
	Model	Quantity			1		
		Type			ACH40-90AH		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler		
	Empty tubeplate hole				2		
	Face area			m^2	0,95+0,97+1,00		
	Fin	Treatment			Anti-corrosion treatment (PE)		
		Type			WF fin		
	Fin pitch			mm	14		
	Passes	Quantity			13		
	Rows	Quantity			3		
	Stages	Quantity			38		
Pump Standard	Nominal ESP pump	Cooling		kPa	113	112	110
	Nominal ESP unit	Cooling		kPa	99.2	94.1	88.4
	Efficiency level				IE2		
	Manufacturer				Grundfos		
	Model				UPMXL GEO 25-125 130 PWM		
	Power input			W	180		
	Quantity				1		
Hydraulic components	Expansion vessel	Max. water pressure		bar	4		
		Pre pressure		bar	1		
		Volume		l	8		
	Safety valve			bar	3		
	Water filter	Diameter		inch	1"		
		Diameter perforations		mm	1		
Fan	Quantity				1		
	Type				Propeller fan		
	Air flow rate	Cooling	Nom.	m^3/min	70	85	
	Discharge direction				Horizontal		
Fan motor	Drive				Direct drive		
	Model				Brushless DC motor		
	Output			W	234		
	Quantity				1		
	Speed	Cooling	Nom.	rpm	550	650	
		Steps			8		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
	Model				2Y350BPAY1P#C		
Operation range	Air side	Cooling	Max.	°CDB	43		
			Min.	°CDB	10		
	Water side	Cooling	Max.	°CDB	22		
			Min.	°CDB	5		
Sound power level	Cooling	Nom.		dBA	67.0	69.0	

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DW1P	EWAA014DW1P	EWAA016DW1P
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Refrigerant	Type				R-32		
	GWP				675.0		
Refrigerant charge	Per circuit			kg	3.80		
Refrigerant charge	Per circuit			TCO2Eq	2.6		
Refrigerant	Circuits	Quantity			1		
	Control				Electronic expansion valve		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Defrost control					Sensor for outdoor heat exchanger temperature		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
Space heating general	Other	Capacity control			Inverter		
Space cooling	A	Pdc		kW	11.6	12.8	14.0
	Condition 35°C	EERd			3.26	3.16	3.06
	B	Pdc		kW	8.84	9.89	10.8
	Condition	EERd			4.75	4.57	4.41
	30°C	Cdc			0.990		
	C	Pdc		kW	5.66	6.24	6.85
	Condition	Cdc			0.970		0.980
	25°C	EERd			6.91	6.80	6.56
	D	Pdc		kW	5.83	5.84	5.85
	Condition	EERd			8.45	8.42	8.51
	20°C	Cdc			0.970		
	ηs,c			%	229	226	221
Standard rating conditions used					Low temperature application		
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00		
	Off mode	POFF		W	23.0		
	Standby mode	Cooling	PSB	W	23.0		
	Thermostat-off mode	PTO	Cooling	W	23		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4.0		

Electrical specifications				EWAA011DW1P	EWAA014DW1P	EWAA016DW1P
Compressor	Starting method			Inverter		
Power supply	Name			W1		
	Phase			3~		
	Frequency		Hz	50		
	Voltage		V	400		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Unit	Running current	Max	A	14.0		
	Recommended fuses		A	16		
Pump Standard	Phase			1~		
	Power supply	Frequency	Hz	50		
		Voltage	V	230		
	Current	Maximum running current	A	0.8		
	Power output	Rated	kW	180.0		
Compressor	Phase			3~		
	Voltage		V	400		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Condenser heater tape	Supply voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Electrical specifications			EWAA011DW1P	EWAA014DW1P	EWAA016DW1P
Wiring connections	Preferential kWh rate power supply	Quantity	Power: 2		
		Remark	Power 6.3A (Select diameter and type according to national and local regulations)		
	For connection with user interface	Type of wires	0,75 ~1,25 mm² (P1P2)		
		Quantity	4		
		Remark	0.75 mm² till 1.25 mm² (max length 200 m)		
	For connection with R6T	Quantity	2		
		Remark	Minimum 0.75 mm²		
	General		See installation manual		

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

Technical specifications					EWAA011DV3P	EWAA014DV3P	EWAA016DV3P
Cooling capacity	Nom.			kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Capacity control	Method				Variable (inverter)		
Power input	Cooling	Nom.		kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
EER					3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
SEER					5.79 (3)	5.71 (3)	5.59 (3)
Dimensions	Packed unit	Depth		mm	650		
		Height		mm	1,053		
		Width		mm	1,500		
	Unit	Depth		mm	460		
		Height		mm	870		
		Width		mm	1,380		
Weight	Packed unit			kg	164		
	Unit			kg	147		
Packing	Material				PE wrapping foil / Carton / Wood		
	Weight			kg	17		
Casing	Colour				Ivory white		
	Material				Polyester painted galvanised steel plate		
Water heat exchanger	Quantity				1		
	Type				Plate heat exchanger		
	Filter	Diameter perforations		mm	0.8		
		Material			Stainless steel		
	Minimum water volume in the system			l	20 (4)		
	Water flow rate	Cooling	Nom.	l/min	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
	Water volume			l	2		
	Insulation material				Kaiflex		
	Model	Quantity			1		
		Type			ACH40-90AH		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler		
	Face area			m²	0,95+0,97+1,00		
	Fin	Treatment			Anti-corrosion treatment (PE)		
		Type			WF fin		
	Fin pitch			mm	14		
	Passes	Quantity			14		
	Rows	Quantity			3		
	Stages	Quantity			38		
Pump Standard	Nominal ESP pump	Cooling		kPa	113	112	110
Pump Standard	Nominal ESP unit	Cooling		kPa	99.2	94.1	88.4
	Efficiency level				IE2		
	Manufacturer				Grundfos		
	Model				UPMXL GEO 25-125 130 PWM		
	Power input			W	180		
	Quantity				1		
Hydraulic components	Expansion vessel	Max. water pressure		bar	4		
		Pre pressure		bar	1		
		Volume		l	8		
	Safety valve			bar	3		
	Water filter	Diameter		inch	1"		
		Diameter perforations		mm	1		
Fan	Quantity				1		
	Type				Propeller fan		
	Air flow rate	Cooling	Nom.	m³/min	70	85	
	Discharge direction				Horizontal		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DV3P	EWAA014DV3P	EWAA016DV3P
Fan motor	Drive				Direct drive		
	Model				Brushless DC motor		
	Output			W	230		
	Quantity				1		
	Speed	Cooling	Nom.	rpm	550	650	
		Steps			8		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
	Model				2Y350BPAX1P#C		
Operation range	Air side	Cooling	Max.	°CDB	43		
			Min.	°CDB	10		
	Water side	Cooling	Max.	°CDB	22		
			Min.	°CDB	5		
Sound power level	Cooling	Nom.		dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Refrigerant	Type				R-32		
	GWP				675.0		
Refrigerant charge	Per circuit			kg	3.80		
	Per circuit			TCO2Eq	2.6		
Refrigerant	Circuits	Quantity			1		
	Control				Electronic expansion valve		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Defrost control					Sensor for outdoor heat exchanger temperature		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
Space heating general	Other	Capacity control			Inverter		
Space cooling	A	Pdc		kW	11.6	12.8	14.0
	Condition 35°C	EERd			3.26	3.16	3.06
	B	Pdc		kW	8.84	9.89	10.8
	Condition 30°C	EERd			4.75	4.57	4.41
		Cdc			0.990		
	C	Pdc		kW	5.66	6.24	6.85
	Condition 25°C	Cdc			0.970		0.980
		EERd			6.91	6.80	6.56
	D	Pdc		kW	5.83	5.84	5.85
	Condition 20°C	EERd			8.45	8.42	8.51
		Cdc			0.970		
	ηs,c			%	229	226	221
Standard rating conditions used					Low temperature application		
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00		
	Off mode	POFF		W	23.0		
	Standby mode	Cooling	PSB	W	23.0		
	Thermostat-off mode	PTO	Cooling	W	23		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4.0		

Electrical specifications				EWAA011DV3P	EWAA014DV3P	EWAA016DV3P
Compressor	Starting method			Inverter		
Power supply	Name			V3		
	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Electrical specifications				EWAA011DV3P	EWAA014DV3P	EWAA016DV3P
Unit	Running current	Max	A	30.8		
	Recommended fuses		A	32		
Pump Standard	Phase			1~		
	Power supply	Frequency	Hz	50		
		Voltage	V	230		
	Current	Maximum running current	A	0.8		
	Power output	Rated	kW	180.0		
Compressor	Phase			3~		
	Voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Condenser heater tape	Supply voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Wiring connections	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)		
	For connection with user interface	Type of wires		0,75 ~1,25 mm² (P1P2)		
		Quantity		4		
		Remark		O.75 mm² till 1.25 mm² (max length 200 m)		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	General			See installation manual		

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

Technical specifications				EWAA011DW1P-H-	EWAA014DW1P-H-	EWAA016DW1P-H-
Cooling capacity	Nom.		kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Capacity control	Method			Variable (inverter)		
Power input	Cooling	Nom.	kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
EER				3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
SEER				5.79 (3)	5.71 (3)	5.59 (3)
Dimensions	Packed unit	Depth	mm	650		
		Height	mm	1,053		
		Width	mm	1,500		
	Unit	Depth	mm	460		
		Height	mm	870		
		Width	mm	1,380		
Weight	Packed unit		kg	164		
	Unit		kg	147		
Packing	Material			PE wrapping foil / Carton / Wood		
	Weight		kg	17		
Casing	Colour			Ivory white		
	Material			Polyester painted galvanised steel plate		
Water heat exchanger	Quantity			1		
	Type			Plate heat exchanger		
	Filter	Diameter perforations	mm	0.8		
		Material		Stainless steel		
	Minimum water volume in the system		l	20 (4)		
	Water flow rate	Cooling Nom.	l/min	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
	Water volume		l	2		
	Insulation material			Kaiflex		
	Model	Quantity		1		
		Type		ACH40-90AH		
Air heat exchanger	Type			High efficiency fin and tube type with integral subcooler		
	Empty tubeplate hole			2		
	Face area		m²	0,95+0,97+1,00		
	Fin	Treatment		Anti-corrosion treatment (PE)		
		Type		WF fin		
	Fin pitch		mm	14		
	Passes	Quantity		13		
	Rows	Quantity		3		
	Stages	Quantity		38		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DW1P-H-	EWAA014DW1P-H-	EWAA016DW1P-H-
Pump Standard	Nominal ESP pump	Cooling		kPa	113	112	110
	Nominal ESP unit	Cooling		kPa	99.2	94.1	88.4
	Efficiency level				IE2		
	Manufacturer				Grundfos		
	Model				UPMXL GEO 25-125 130 PWM		
	Power input			W	180		
	Quantity				1		
Hydraulic components	Anti freeze heater (optional)			W	265		
	Expansion vessel	Max. water pressure		bar	4		
		Pre pressure		bar	1		
		Volume		l	8		
	Safety valve			bar	3		
	Water filter	Diameter		inch	1"		
		Diameter perforations		mm	1		
Fan	Quantity				1		
	Type				Propeller fan		
	Air flow rate	Cooling	Nom.	m^3/min	70	85	
	Discharge direction				Horizontal		
Fan motor	Drive				Direct drive		
	Model				Brushless DC motor		
	Output			W	234		
	Quantity				1		
	Speed	Cooling	Nom.	rpm	550	650	
		Steps			8		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
	Model				2Y350BPAY1P#C		
Operation range	Air side	Cooling	Max.	°CDB	43		
			Min.	°CDB	10		
	Water side	Cooling	Max.	°CDB	22		
			Min.	°CDB	5		
Sound power level	Cooling	Nom.		dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Refrigerant	Type				R-32		
	GWP				675.0		
Refrigerant charge	Per circuit			kg	3.80		
	Per circuit			TCO2Eq	2.6		
Refrigerant	Circuits	Quantity			1		
	Control				Electronic expansion valve		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Defrost control					Sensor for outdoor heat exchanger temperature		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
Space heating general	Other	Capacity control			Inverter		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DW1P-H-	EWAA014DW1P-H-	EWAA016DW1P-H-
Space cooling	A	Pdc		kW	11.6	12.8	14.0
	Condition 35°C	EERd			3.26	3.16	3.06
	B	Pdc		kW	8.84	9.89	10.8
	Condition	EERd			4.75	4.57	4.41
	30°C	Cdc			0.990		
	C	Pdc		kW	5.66	6.24	6.85
	Condition	Cdc			0.970		0.980
	25°C	EERd			6.91	6.80	6.56
	D	Pdc		kW	5.83	5.84	5.85
	Condition	EERd			8.45	8.42	8.51
	20°C	Cdc			0.970		
	ηs,c			%	229	226	221
Standard rating conditions used					Low temperature application		
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00		
	Off mode	POFF		W	23.0		
	Standby mode	Cooling	PSB	W	23.0		
	Thermostat-off mode	PTO	Cooling	W	23		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4.0		

Electrical specifications				EWAA011DW1P-H-	EWAA014DW1P-H-	EWAA016DW1P-H-
Compressor	Starting method			Inverter		
Power supply	Name			W1		
	Phase			3~		
	Frequency		Hz	50		
	Voltage		V	400		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Unit	Running current	Max	A	14.0		
	Recommended fuses		A	16		
Pump Standard	Phase			1~		
	Power supply	Frequency	Hz	50		
		Voltage	V	230		
	Current	Maximum running current	A	0.8		
	Power output	Rated	kW	180.0		
Compressor	Phase			3~		
	Voltage		V	400		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Condenser heater tape	Supply voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Wiring connections	Preferential kWh rate power supply	Quantity		Power: 2		
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)		
	For connection with user interface	Type of wires		0,75 ~1,25 mm² (P1P2)		
		Quantity		4		
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)		
	For connection with R6T	Quantity		2		
		Remark		Minimum 0.75 mm²		
	General			See installation manual		

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

Technical specifications				EWAA011DV3P-H-	EWAA014DV3P-H-	EWAA016DV3P-H-
Cooling capacity	Nom.		kW	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Capacity control	Method			Variable (inverter)		
Power input	Cooling	Nom.	kW	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
EER				3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
SEER				5.79 (3)	5.71 (3)	5.59 (3)

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DV3P-H-	EWAA014DV3P-H-	EWAA016DV3P-H-
Dimensions	Packed unit	Depth		mm	650		
		Height		mm	1,053		
		Width		mm	1,500		
	Unit	Depth		mm	460		
		Height		mm	870		
		Width		mm	1,380		
Weight	Packed unit			kg	164		
	Unit			kg	147		
Packing	Material				PE wrapping foil / Carton / Wood		
	Weight			kg	17		
Casing	Colour				Ivory white		
	Material				Polyester painted galvanised steel plate		
Water heat exchanger	Quantity				1		
	Type				Plate heat exchanger		
	Filter	Diameter perforations		mm	0.8		
		Material			Stainless steel		
	Minimum water volume in the system			l	20 (4)		
	Water flow rate	Cooling	Nom.	l/min	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
	Water volume			l	2		
	Insulation material				Kaiflex		
	Model	Quantity			1		
		Type			ACH40-90AH		
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler		
	Face area			m^2	0,95+0,97+1,00		
	Fin	Treatment			Anti-corrosion treatment (PE)		
		Type			WF fin		
	Fin pitch			mm	14		
	Passes	Quantity			14		
	Rows	Quantity			3		
	Stages	Quantity			38		
Pump Standard	Nominal ESP pump	Cooling		kPa	113	112	110
Pump Standard	Nominal ESP unit	Cooling		kPa	99.2	94.1	88.4
	Efficiency level				IE2		
	Manufacturer				Grundfos		
	Model				UPMXL GEO 25-125 130 PWM		
	Power input			W	180		
	Quantity				1		
Hydraulic components	Anti freeze heater (optional)			W	265		
	Expansion vessel	Max. water pressure		bar	4		
		Pre pressure		bar	1		
		Volume		l	8		
	Safety valve			bar	3		
	Water filter	Diameter		inch	1"		
		Diameter perforations		mm	1		
Fan	Quantity				1		
	Type				Propeller fan		
	Air flow rate	Cooling	Nom.	m^3/min	70	85	
	Discharge direction				Horizontal		
Fan motor	Drive				Direct drive		
	Model				Brushless DC motor		
	Output			W	230		
	Quantity				1		
	Speed	Cooling	Nom.	rpm	550	650	
		Steps			8		
Refrigerant oil	Type				FW68DA		
	Charged volume			l	1.35		
Compressor	Quantity				1		
	Type				Hermetically sealed swing inverter compressor		
	Model				2Y350BPAX1P#C		
Operation range	Air side	Cooling	Max.	°CDB	43		
			Min.	°CDB	10		
	Water side	Cooling	Max.	°CDB	22		
			Min.	°CDB	5		
Sound power level	Cooling	Nom.		dBA	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	47.7	50.8	51.0
Refrigerant	Type				R-32		
	GWP				675.0		
Refrigerant charge	Per circuit			kg	3.80		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWAA011DV3P-H-	EWAA014DV3P-H-	EWAA016DV3P-H-
Refrigerant charge	Per circuit			TCO2Eq	2.6		
Refrigerant	Circuits	Quantity			1		
	Control				Electronic expansion valve		
PED	Category				Category II		
	Most critical part	Name			Accumulator		
		Ps*V		Bar*l	159		
Defrost control					Sensor for outdoor heat exchanger temperature		
Defrost method					Reversed cycle		
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
		03			Fan driver overload protector		
		04			Fuse		
		05			Compressor motor thermal protector		
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
Space heating general	Other	Capacity control			Inverter		
Space cooling	A	Pdc		kW	11.6	12.8	14.0
	Condition 35°C	EERd			3.26	3.16	3.06
	B	Pdc		kW	8.84	9.89	10.8
	Condition 30°C	EERd			4.75	4.57	4.41
		Cdc			0.990		
	C	Pdc		kW	5.66	6.24	6.85
	Condition 25°C	Cdc			0.970		0.980
		EERd			6.91	6.80	6.56
	D	Pdc		kW	5.83	5.84	5.85
	Condition 20°C	EERd			8.45	8.42	8.51
		Cdc			0.970		
	ηs,c			%	229	226	221
Standard rating conditions used					Low temperature application		
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00		
	Off mode	POFF		W	23.0		
	Standby mode	Cooling	PSB	W	23.0		
	Thermostat-off mode	PTO	Cooling	W	23		
Control systems	Class of temperature control				VI		
	Contribution to seasonal space heating efficiency			%	4.0		

Electrical specifications				EWAA011DV3P-H-	EWAA014DV3P-H-	EWAA016DV3P-H-
Compressor	Starting method			Inverter		
Power supply	Name			V3		
	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Unit	Running current	Max	A	30.8		
	Recommended fuses		A	32		
Pump Standard	Phase			1~		
	Power supply	Frequency	Hz	50		
		Voltage	V	230		
	Current	Maximum running current	A	0.8		
	Power output	Rated	kW	180.0		
Compressor	Phase			3~		
	Voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Condenser heater tape	Supply voltage		V	230		
	Voltage range	Min.	%	-10		
		Max.	%	10		

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Electrical specifications			EWAA011DV3P-H-	EWAA014DV3P-H-	EWAA016DV3P-H-
Wiring connections	Preferential kWh rate power supply	Quantity	Power: 2		
		Remark	Power 6.3A (Select diameter and type according to national and local regulations)		
	For connection with user interface	Type of wires	0,75 ~1,25 mm² (P1P2)		
		Quantity	4		
		Remark	0.75 mm² till 1.25 mm² (max length 200 m)		
	For connection with R6T	Quantity	2		
		Remark	Minimum 0.75 mm²		
	General		See installation manual		

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

Technical specifications					EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Cooling capacity	Nom.			kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.			kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Capacity control	Method				Variable (inverter)			
Power input	Cooling	Nom.		kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.		kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
EER					3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP					4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Dimensions	Packed unit	Depth		mm	650			
		Height		mm	1,053			
		Width		mm	1,500			
	Unit	Depth		mm	460			
		Height		mm	870			
		Width		mm	1,380			
Weight	Packed unit			kg	164			
	Unit			kg	147			
Packing	Material				PE wrapping foil / Carton / Wood			
	Weight			kg	17			
Casing	Colour				Ivory white			
	Material				Polyester painted galvanised steel plate			
Water heat exchanger	Quantity				1			
	Type				Plate heat exchanger			
	Filter	Diameter perforations		mm	0.8			
		Material			Stainless steel			
	Minimum water volume in the system			l	50 (6)			
	Water flow rate	Cooling	Nom.	l/min	26.8 (1) / 26.1 (2)	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
		Heating	Nom.	l/min	26.9 (3) / 25.8 (4)	30.3 (3) / 28.2 (4)	34.4 (3) / 35.7 (4)	45.9 (3) / 45.9 (4)
	Water volume			l	2			
	Insulation material				Kaiflex			
	Model	Quantity			1			
		Type			ACH40-90AH			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
	Empty tubeplate hole				2			
	Face area			m²	0,95+0,97+1,00			
	Fin	Treatment			Anti-corrosion treatment (PE)			
		Type			WF fin			
Air heat exchanger	Fin pitch			mm	14			
	Passes	Quantity			13			
	Rows	Quantity			3			
	Stages	Quantity			38			
Pump Standard	Nominal ESP pump	Cooling		kPa	116	113	112	110
		Heating		kPa	116	114	113	106
	Nominal ESP unit	Cooling		kPa	106.6	99.2	94.1	88.4
		Heating		kPa	107.5	105.2	95.7	76.7
	Efficiency level				IE2			
	Manufacturer				Grundfos			
	Model				UPMXL GEO 25-125 130 PWM			
	Power input			W	180			
	Quantity				1			
Hydraulic components	Expansion vessel	Max. water pressure		bar	4			
		Pre pressure		bar	1			
		Volume		l	8			
	Safety valve			bar	3			
	Water filter	Diameter		inch	1"			
		Diameter perforations		mm	1			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Fan	Quantity				1			
	Type				Propeller fan			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
	Discharge direction				Horizontal			
Fan motor	Drive				Direct drive			
	Model				Brushless DC motor			
	Output			W	234			
	Quantity				1			
	Speed	Cooling	Nom.	rpm	500	550	650	
		Heating	Nom.	rpm	400	450	550	650
		Steps			8			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	1.35			
Compressor	Quantity				1			
	Type				Hermetically sealed swing inverter compressor			
	Model				2Y350BPAY1P#C			
Operation range	Air side	Cooling	Max.	°CDB	43			
Operation range	Air side	Cooling	Min.	°CDB	10			
		Heating	Max.	°CDB	25			
			Min.	°CDB	-25			
	Water side	Cooling	Max.	°CDB	22			
			Min.	°CDB	5			
		Heating	Max.	°CDB	60 (7)			
			Min.	°CDB	9 (7)			
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Refrigerant	Type				R-32			
	GWP				675.0			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Refrigerant	Circuits	Quantity			1			
	Control				Electronic expansion valve			
PED	Category				Category II			
	Most critical part	Name			Accumulator			
		Ps*V		Bar*l	159			
Defrost control					Sensor for outdoor heat exchanger temperature			
Defrost method					Reversed cycle			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			
		05			Compressor motor thermal protector			
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
		Name or trademark			Daikin Europe N.V.			
	Product description	Air-to-water heat pump			Yes			
		Brine-to-water heat pump			No			
		Heat pump combination heater			No			
		Low-temperature heat pump			No			
		Supplementary heater integrated			No			
		Water-to-water heat pump			No			
LW(A) Sound power level (according to EN14825)				dB(A)	62.0			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220	5,100
	Other	Capacity control			Inverter			
Space heating general	Other	Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.023			
		Psb (Standby mode)		kW	0.023			
		Pto (Thermostat off)		kW	0.023			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651	7,359
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	22	24	26
			SCOP		3.44	3.37	3.42	3.37
			ηs (Seasonal space heating efficiency)	%	135	132	134	132
			Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		2.09	1.90	2.02	1.95
			Pdh	kW	8.5	9.3	9.4	
			PERd	%	83.6	76.0	80.8	78.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.28	3.25	3.28	3.27
			Pdh	kW	5.0	5.4	6.2	6.9
			PERd	%	131.2	130.0	131.2	130.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.80	4.81	4.88	4.93
			Pdh	kW	4.4			
			PERd	%	192.0	192.4	195.2	197.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.45	6.41	6.58	6.60
			Pdh	kW	5.3			
			PERd	%	258.0	256.4	263.2	264.0
		Rated heat output	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2	4.1
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09	2.13
			Pdh	kW	8.8	9.3	9.4	10.1
			PERd	%	76.8	76.0	83.6	85.2
			Tbiv	°C	-8	-7	-6	-5
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70	1.67
			Pdh	kW	6.8	7.6	7.8	8.0
			PERd	%	68.0	65.6	68.0	66.8
			TOL	°C	-10			
			WTOL	°C	55			
	Cold climate water outlet	General	Annual energy consumption	kWh	7,092	7,848	8,808	9,510

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Space heating	Cold climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	122	123	120	121
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	26	28	32	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690	
			ηs (Seasonal space heating efficiency)	%	168	170	172	
			Prated at 2°C	kW	9.0	10.0	12.1	
			Qhe Annual energy consumption (GCV)	Gj	10	11	13	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	5,281
			ηs (Seasonal space heating efficiency)	%	190	186	185	
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17	19
			SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.07	3.03	2.95	2.87
			Pdh	kW	8.5	9.2	10.1	11.2
			PERd	%	122.8	121.2	118.0	114.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.52	4.37	4.35	4.33
			Pdh	kW	5.5		6.1	6.7
			PERd	%	180.8	174.8	174.0	173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.78	6.74	6.70	6.83
			Pdh	kW	4.7	4.6		4.7
			PERd	%	271.2	269.6	268.0	273.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		8.75	8.54	8.65	8.82
			Pdh	kW	5.5	5.4		5.5
			PERd	%	350.0	341.6	346.0	352.8
		Rated heat output	Psup (at Tdesign -10°C)	kW	0.7		0.0	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	2.48
			Pdh	kW	8.7	10.1	11.2	11.8
			PERd	%	110.0	103.2	100.4	99.2
			Tbiv	°C	-9		-10	
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51	2.48
			Pdh	kW	8.3	10.1	11.2	11.8
			PERd	%	105.6	103.2	100.4	99.2
Space heating	Average climate water outlet	Tol (temperature operating limit)	TOL	°C	-10			
	Cold climate water outlet	General	ηs (Seasonal space heating efficiency)	%	175	169	170	160
	Average climate water outlet	Tol (temperature operating limit)	WTOL	°C	35			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980	5,732	6,266	7,245
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	18	21	23	26
	Warm climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	243	248	249	246
			Annual energy consumption	kWh	1,938	2,128	2,333	2,573
			Prated at 2°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	7	8		9

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Space cooling	A	Pdc		kW	9.35	11.6	12.8	14.0
	Condition 35°C	EERd			3.35	3.26	3.16	3.06
	B	Pdc		kW	7.02	8.84	9.89	10.8
	Condition	EERd			4.69	4.75	4.57	4.41
	30°C	Cdc			0.980	0.990		
	C	Pdc		kW	4.93	5.66	6.24	6.85
	Condition	Cdc			0.970			0.980
	25°C	EERd			6.70	6.91	6.80	6.56
	D	Pdc		kW	5.69	5.83	5.84	5.85
	Condition	EERd			8.22	8.45	8.42	8.51
	20°C	Cdc			0.970			
	ηs,c			%	222	229	226	221
Standard rating conditions used					Low temperature application			
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00			
	Off mode	POFF		W	23.0			
	Standby mode	Cooling	PSB	W	23.0			
	Thermostat-off mode	PTO	Cooling	W	23			
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency			%	4.0			

Electrical specifications				EWYA009DW1P	EWYA011DW1P	EWYA014DW1P	EWYA016DW1P
Compressor	Starting method			Inverter			
Power supply	Name			W1			
	Phase			3~			
	Frequency		Hz	50			
	Voltage		V	400			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Unit	Running current	Max	A	14.0			
	Recommended fuses		A	16			
Pump Standard	Phase			1~			
	Power supply	Frequency	Hz	50			
		Voltage	V	230			
	Current	Maximum running current	A	0.8			
	Power output	Rated	kW	180.0			
Compressor	Phase			3~			
	Voltage		V	400			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Condenser heater tape	Supply voltage		V	230			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Wiring connections	Preferential kWh rate power supply	Quantity		Power: 2			
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)			
	For connection with user interface	Type of wires		0,75 ~1,25 mm² (P1P2)			
		Quantity		4			
		Remark		0.75 mm² till 1.25 mm² (max length 200 m)			
	For connection with R6T	Quantity		2			
		Remark		Minimum 0.75 mm²			
	General			See installation manual			

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

Technical specifications				EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Cooling capacity	Nom.		kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.		kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Capacity control	Method			Variable (inverter)			
Power input	Cooling	Nom.	kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.	kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
EER				3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP				4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Dimensions	Packed unit	Depth		mm	650			
		Height		mm	1,053			
		Width		mm	1,500			
	Unit	Depth		mm	460			
		Height		mm	870			
		Width		mm	1,380			
Weight	Packed unit			kg	164			
	Unit			kg	147			
Packing	Material				PE wrapping foil / Carton / Wood			
	Weight			kg	17			
Casing	Colour				Ivory white			
	Material				Polyester painted galvanised steel plate			
Water heat exchanger	Quantity				1			
	Type				Plate heat exchanger			
	Filter	Diameter perforations		mm	0.8			
		Material			Stainless steel			
	Minimum water volume in the system			l	50 (6)			
	Water flow rate	Cooling	Nom.	l/min	26.8 (1) / 26.1 (2)	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
		Heating	Nom.	l/min	26.9 (3) / 25.8 (4)	30.3 (3) / 28.2 (4)	34.4 (3) / 35.7 (4)	45.9 (3) / 45.9 (4)
	Water volume			l	2			
	Insulation material				Kaiflex			
	Model	Quantity			1			
		Type			ACH40-90AH			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
	Face area			m^2	0,95+0,97+1,00			
	Fin	Treatment			Anti-corrosion treatment (PE)			
		Type			WF fin			
	Fin pitch			mm	14			
Air heat exchanger	Passes	Quantity			14			
	Rows	Quantity			3			
	Stages	Quantity			38			
Pump Standard	Nominal ESP pump	Cooling		kPa	116	113	112	110
		Heating		kPa	116	114	113	106
	Nominal ESP unit	Cooling		kPa	106.6	99.2	94.1	88.4
		Heating		kPa	107.5	105.2	95.7	76.7
	Efficiency level				IE2			
	Manufacturer				Grundfos			
	Model				UPMXL GEO 25-125 130 PWM			
	Power input			W	180			
	Quantity				1			
Hydraulic components	Expansion vessel	Max. water pressure		bar	4			
		Pre pressure		bar	1			
		Volume		l	8			
	Safety valve			bar	3			
	Water filter	Diameter		inch	1"			
		Diameter perforations		mm	1			
Fan	Quantity				1			
	Type				Propeller fan			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
	Discharge direction				Horizontal			
Fan motor	Drive				Direct drive			
	Model				Brushless DC motor			
	Output			W	230			
	Quantity				1			
	Speed	Cooling	Nom.	rpm	500	550	650	
		Heating	Nom.	rpm	400	450	550	650
		Steps			8			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	1.35			
Compressor	Quantity				1			
	Type				Hermetically sealed swing inverter compressor			
	Model				2Y350BPAX1P#C			
Operation range	Air side	Cooling	Max.	°CDB	43			
			Min.	°CDB	10			
Operation range	Air side	Heating	Max.	°CDB	25			
			Min.	°CDB	-25			
	Water side	Cooling	Max.	°CDB	22			
			Min.	°CDB	5			
		Heating	Max.	°CDB	60 (7)			
			Min.	°CDB	9 (7)			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications				EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Sound power level	Cooling	Nom.	dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.	dBA	44.0	47.7	50.8	51.0
Refrigerant	Type			R-32			
	GWP			675.0			
Refrigerant charge	Per circuit		kg	3.80			
	Per circuit		TCO2Eq	2.6			
Refrigerant	Circuits	Quantity		1			
	Control			Electronic expansion valve			
PED	Category			Category II			
	Most critical part	Name		Accumulator			
		Ps*V	Bar*l	159			
Defrost control				Sensor for outdoor heat exchanger temperature			
Defrost method				Reversed cycle			
Safety devices	Item	01		High pressure switch			
		02		Low pressure switch			
		03		Fan driver overload protector			
		04		Fuse			
		05		Compressor motor thermal protector			
General	Supplier/ Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
		Name or trademark		Daikin Europe N.V.			
	Product description	Air-to-water heat pump		Yes			
		Brine-to-water heat pump		No			
		Heat pump combination heater		No			
		Low-temperature heat pump		No			
		Supplementary heater integrated		No			
		Water-to-water heat pump		No			
LW(A) Sound power level (according to EN14825)			dB(A)	62.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m^3/h	2,880	3,350	4,220	5,100
	Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)	kW	0.000			
Space heating general	Other	Poff (Off mode)	kW	0.023			
		Psb (Standby mode)	kW	0.023			
		Pto (Thermostat off)	kW	0.023			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651	7,359
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	22	24	26
			SCOP		3.44	3.37	3.42	3.37
			ηs (Seasonal space heating efficiency)	%	135	132	134	132
			Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		2.09	1.90	2.02	1.95
			Pdh	kW	8.5	9.3	9.4	
			PERd	%	83.6	76.0	80.8	78.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.28	3.25	3.28	3.27
			Pdh	kW	5.0	5.4	6.2	6.9
			PERd	%	131.2	130.0	131.2	130.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.80	4.81	4.88	4.93
			Pdh	kW	4.4			
			PERd	%	192.0	192.4	195.2	197.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.45	6.41	6.58	6.60
			Pdh	kW	5.3			
			PERd	%	258.0	256.4	263.2	264.0
		Rated heat output	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2	4.1
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09	2.13
			Pdh	kW	8.8	9.3	9.4	10.1
			PERd	%	76.8	76.0	83.6	85.2
			Tbiv	°C	-8	-7	-6	-5
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70	1.67
			Pdh	kW	6.8	7.6	7.8	8.0
			PERd	%	68.0	65.6	68.0	66.8
			TOL	°C	-10			
			WTOL	°C	55			
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,376	8,196	8,808	9,599
			ηs (Seasonal space heating efficiency)	%	117		120	

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Space heating	Cold climate water outlet 55°C	General	Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	27	30	32	35
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690	
			ηs (Seasonal space heating efficiency)	%	168	170	172	
			Prated at 2°C	kW	9.0	10.0	12.1	
			Qhe Annual energy consumption (GCV)	Gj	10	11	13	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	5,281
			ηs (Seasonal space heating efficiency)	%	190	186	185	
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17	19
			SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.07	3.03	2.95	2.87
			Pdh	kW	8.5	9.2	10.1	11.2
			PERd	%	122.8	121.2	118.0	114.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.52	4.37	4.35	4.33
			Pdh	kW	5.5		6.1	6.7
			PERd	%	180.8	174.8	174.0	173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.78	6.74	6.70	6.83
			Pdh	kW	4.7	4.6		4.7
			PERd	%	271.2	269.6	268.0	273.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		8.75	8.54	8.65	8.82
			Pdh	kW	5.5	5.4		5.5
			PERd	%	350.0	341.6	346.0	352.8
		Rated heat output	Psup (at Tdesign -10°C)	kW	0.7		0.0	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	2.48
			Pdh	kW	8.7	10.1	11.2	11.8
			PERd	%	110.0	103.2	100.4	99.2
			Tbiv	°C	-9		-10	
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51	2.48
			Pdh	kW	8.3	10.1	11.2	11.8
			PERd	%	105.6	103.2	100.4	99.2
			TOL	°C	-10			
Space heating	Cold climate water outlet	General	ηs (Seasonal space heating efficiency)	%	163	169	170	160
	Average climate water outlet	Tol (temperature operating limit)	WTOL	°C	35			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,351	5,732	6,266	7,245
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23	26
	Warm climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	243	248	249	246
			Annual energy consumption	kWh	1,938	2,128	2,333	2,573
			Prated at 2°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	7	8		9

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Space cooling	A	Pdc		kW	9.35	11.6	12.8	14.0
	Condition 35°C	EERd			3.35	3.26	3.16	3.06
	B	Pdc		kW	7.02	8.84	9.89	10.8
	Condition 30°C	EERd			4.69	4.75	4.57	4.41
		Cdc			0.980	0.990		
	C	Pdc		kW	4.93	5.66	6.24	6.85
	Condition 25°C	Cdc			0.970			0.980
		EERd			6.70	6.91	6.80	6.56
	D	Pdc		kW	5.69	5.83	5.84	5.85
	Condition 20°C	EERd			8.22	8.45	8.42	8.51
		Cdc			0.970			
	ηs,c			%	222	229	226	221
Standard rating conditions used					Low temperature application			
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00			
	Off mode	POFF		W	23.0			
	Standby mode	Cooling	PSB	W	23.0			
	Thermostat-off mode	PTO	Cooling	W	23			
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency			%	4.0			

Electrical specifications				EWYA009DV3P	EWYA011DV3P	EWYA014DV3P	EWYA016DV3P
Compressor	Starting method			Inverter			
Power supply	Name			V3			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	230			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Unit	Running current	Max	A	30.8			
	Recommended fuses		A	32			
Pump Standard	Phase			1~			
	Power supply	Frequency	Hz	50			
		Voltage	V	230			
	Current	Maximum running current	A	0.8			
	Power output	Rated	kW	180.0			
Compressor	Phase			3~			
	Voltage		V	230			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Condenser heater tape	Supply voltage		V	230			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Wiring connections	Preferential kWh rate power supply	Quantity		Power: 2			
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)			
	For connection with user interface	Type of wires		0,75 ~1,25 mm^2 (P1P2)			
		Quantity		4			
		Remark		0.75 mm^2 till 1.25 mm^2 (max length 200 m)			
	For connection with R6T	Quantity		2			
		Remark		Minimum 0.75 mm^2			
	General			See installation manual			

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

Technical specifications				EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Cooling capacity	Nom.		kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.		kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Capacity control	Method			Variable (inverter)			
Power input	Cooling	Nom.	kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.	kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
EER				3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP				4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Dimensions	Packed unit	Depth		mm	650			
		Height		mm	1,053			
		Width		mm	1,500			
	Unit	Depth		mm	460			
		Height		mm	870			
		Width		mm	1,380			
Weight	Packed unit			kg	164			
	Unit			kg	147			
Packing	Material				PE wrapping foil / Carton / Wood			
	Weight			kg	17			
Casing	Colour				Ivory white			
	Material				Polyester painted galvanised steel plate			
Water heat exchanger	Quantity				1			
	Type				Plate heat exchanger			
	Filter	Diameter perforations		mm	0.8			
		Material			Stainless steel			
	Minimum water volume in the system			l	50 (6)			
	Water flow rate	Cooling	Nom.	l/min	26.8 (1) / 26.1 (2)	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
		Heating	Nom.	l/min	26.9 (3) / 25.8 (4)	30.3 (3) / 28.2 (4)	34.4 (3) / 35.7 (4)	45.9 (3) / 45.9 (4)
	Water volume			l	2			
	Insulation material				Kaiflex			
	Model	Quantity			1			
		Type			ACH40-90AH			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
	Empty tubeplate hole				2			
	Face area			m^2	0,95+0,97+1,00			
	Fin	Treatment			Anti-corrosion treatment (PE)			
		Type			WF fin			
Air heat exchanger	Fin pitch			mm	14			
	Passes	Quantity			13			
	Rows	Quantity			3			
	Stages	Quantity			38			
Pump Standard	Nominal ESP pump	Cooling		kPa	116	113	112	110
		Heating		kPa	116	114	113	106
	Nominal ESP unit	Cooling		kPa	106.6	99.2	94.1	88.4
		Heating		kPa	107.5	105.2	95.7	76.7
	Efficiency level				IE2			
	Manufacturer				Grundfos			
	Model				UPMXL GEO 25-125 130 PWM			
	Power input			W	180			
	Quantity				1			
Hydraulic components	Anti freeze heater (optional)			W	265			
	Expansion vessel	Max. water pressure		bar	4			
		Pre pressure		bar	1			
		Volume		l	8			
	Safety valve			bar	3			
	Water filter	Diameter		inch	1"			
		Diameter perforations		mm	1			
Fan	Quantity				1			
	Type				Propeller fan			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
	Discharge direction				Horizontal			
Fan motor	Drive				Direct drive			
	Model				Brushless DC motor			
	Output			W	234			
	Quantity				1			
	Speed	Cooling	Nom.	rpm	500	550	650	
		Heating	Nom.	rpm	400	450	550	650
		Steps			8			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	1.35			
Compressor	Quantity				1			
	Type				Hermetically sealed swing inverter compressor			
	Model				2Y350BPAY1P#C			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Operation range	Air side	Cooling	Max.	°CDB	43			
			Min.	°CDB	10			
		Heating	Max.	°CDB	25			
			Min.	°CDB	-25			
	Water side	Cooling	Max.	°CDB	22			
			Min.	°CDB	5			
		Heating	Max.	°CDB	60 (7)			
			Min.	°CDB	9 (7)			
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Refrigerant	Type				R-32			
	GWP				675.0			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Refrigerant	Circuits	Quantity			1			
	Control				Electronic expansion valve			
PED	Category				Category II			
	Most critical part	Name			Accumulator			
		Ps*V		Bar*l	159			
Defrost control					Sensor for outdoor heat exchanger temperature			
Defrost method					Reversed cycle			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			
		05			Compressor motor thermal protector			
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
		Name or trademark			Daikin Europe N.V.			
	Product description	Air-to-water heat pump			Yes			
		Brine-to-water heat pump			No			
		Heat pump combination heater			No			
		Low-temperature heat pump			No			
		Supplementary heater integrated			No			
		Water-to-water heat pump			No			
LW(A) Sound power level (according to EN14825)				dB(A)	62.0			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220	5,100
Space heating general	Other	Capacity control			Inverter			
		Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.023			
		Psb (Standby mode)		kW	0.023			
		Pto (Thermostat off)		kW	0.023			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651	7,359
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	22	24	26
			SCOP		3.44	3.37	3.42	3.37
			ηs (Seasonal space heating efficiency)	%	135	132	134	132
			Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		2.09	1.90	2.02	1.95
			Pdh	kW	8.5	9.3	9.4	
			PERd	%	83.6	76.0	80.8	78.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.28	3.25	3.28	3.27
			Pdh	kW	5.0	5.4	6.2	6.9
			PERd	%	131.2	130.0	131.2	130.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.80	4.81	4.88	4.93
			Pdh	kW	4.4			
			PERd	%	192.0	192.4	195.2	197.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.45	6.41	6.58	6.60
			Pdh	kW	5.3			
			PERd	%	258.0	256.4	263.2	264.0
		Rated heat output	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2	4.1
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09	2.13
			Pdh	kW	8.8	9.3	9.4	10.1
			PERd	%	76.8	76.0	83.6	85.2
			Tbiv	°C	-8	-7	-6	-5
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70	1.67
			Pdh	kW	6.8	7.6	7.8	8.0
			PERd	%	68.0	65.6	68.0	66.8
			TOL	°C	-10			
			WTOL	°C	55			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Space heating	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,092	7,848	8,808	9,510
			ηs (Seasonal space heating efficiency)	%	122	123	120	121
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	26	28	32	34
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690	
			ηs (Seasonal space heating efficiency)	%	168	170	172	
			Prated at 2°C	kW	9.0	10.0	12.1	
			Qhe Annual energy consumption (GCV)	Gj	10	11	13	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	5,281
			ηs (Seasonal space heating efficiency)	%	190	186	185	
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17	19
			SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.07	3.03	2.95	2.87
			Pdh	kW	8.5	9.2	10.1	11.2
			PERd	%	122.8	121.2	118.0	114.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.52	4.37	4.35	4.33
			Pdh	kW	5.5		6.1	6.7
			PERd	%	180.8	174.8	174.0	173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.78	6.74	6.70	6.83
			Pdh	kW	4.7	4.6		4.7
			PERd	%	271.2	269.6	268.0	273.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		8.75	8.54	8.65	8.82
			Pdh	kW	5.5	5.4		5.5
			PERd	%	350.0	341.6	346.0	352.8
		Rated heat output	Psup (at Tdesign -10°C)	kW	0.7		0.0	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	2.48
			Pdh	kW	8.7	10.1	11.2	11.8
			PERd	%	110.0	103.2	100.4	99.2
			Tbiv	°C	-9		-10	
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51	2.48
			Pdh	kW	8.3	10.1	11.2	11.8
Space heating	Average climate water outlet 35°C	Tol (temperature operating limit)	PERd	%	105.6	103.2	100.4	99.2
			TOL	°C	-10			
	Cold climate water outlet	General	ηs (Seasonal space heating efficiency)	%	175	169	170	160
	Average climate water outlet	Tol (temperature operating limit)	WTOL	°C	35			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	4,980	5,732	6,266	7,245
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	18	21	23	26
	Warm climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	243	248	249	246
			Annual energy consumption	kWh	1,938	2,128	2,333	2,573
			Prated at 2°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	7	8		9

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Space cooling	A	Pdc		kW	9.35	11.6	12.8	14.0
	Condition 35°C	EERd			3.35	3.26	3.16	3.06
	B	Pdc		kW	7.02	8.84	9.89	10.8
	Condition 30°C	EERd			4.69	4.75	4.57	4.41
		Cdc			0.980	0.990		
	C	Pdc		kW	4.93	5.66	6.24	6.85
	Condition 25°C	Cdc			0.970			0.980
		EERd			6.70	6.91	6.80	6.56
	D	Pdc		kW	5.69	5.83	5.84	5.85
	Condition 20°C	EERd			8.22	8.45	8.42	8.51
		Cdc			0.970			
	ηs,c			%	222	229	226	221
Standard rating conditions used					Low temperature application			
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00			
	Off mode	POFF		W	23.0			
	Standby mode	Cooling	PSB	W	23.0			
	Thermostat-off mode	PTO	Cooling	W	23			
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency			%	4.0			

Electrical specifications				EWYA009DW1P-H-	EWYA011DW1P-H-	EWYA014DW1P-H-	EWYA016DW1P-H-
Compressor	Starting method			Inverter			
Power supply	Name			W1			
	Phase			3~			
	Frequency		Hz	50			
	Voltage		V	400			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Unit	Running current	Max	A	14.0			
	Recommended fuses		A	16			
Pump Standard	Phase			1~			
	Power supply	Frequency	Hz	50			
		Voltage	V	230			
	Current	Maximum running current	A	0.8			
	Power output	Rated	kW	180.0			
Compressor	Phase			3~			
	Voltage		V	400			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Condenser heater tape	Supply voltage		V	230			
	Voltage range	Min.	%	-10			
		Max.	%	10			
Wiring connections	Preferential kWh rate power supply	Quantity		Power: 2			
		Remark		Power 6.3A (Select diameter and type according to national and local regulations)			
	For connection with user interface	Type of wires		0,75 ~1,25 mm^2 (P1P2)			
		Quantity		4			
		Remark		0.75 mm^2 till 1.25 mm^2 (max length 200 m)			
	For connection with R6T	Quantity		2			
		Remark		Minimum 0.75 mm^2			
	General			See installation manual			

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

Technical specifications				EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Cooling capacity	Nom.		kW	9.35 (1) / 9.10 (2)	11.6 (1) / 11.5 (2)	12.8 (1) / 12.7 (2)	14.0 (1) / 15.3 (2)
Heating capacity	Nom.		kW	9.37 (3) / 9.00 (4)	10.6 (3) / 9.82 (4)	12.0 (3) / 12.5 (4)	16.0 (3) / 16.0 (4)
Capacity control	Method			Variable (inverter)			
Power input	Cooling	Nom.	kW	2.79 (1) / 1.71 (2)	3.56 (1) / 2.17 (2)	4.06 (1) / 2.51 (2)	4.58 (1) / 3.24 (2)
	Heating	Nom.	kW	1.91 (3) / 2.43 (4)	2.18 (3) / 2.68 (4)	2.46 (3) / 3.42 (4)	3.53 (3) / 4.56 (4)
EER				3.35 (1) / 5.34 (2)	3.26 (1) / 5.31 (2)	3.16 (1) / 5.04 (2)	3.06 (1) / 4.74 (2)
COP				4.91 (3) / 3.71 (4)	4.83 (3) / 3.66 (4)	4.87 (3) / 3.64 (4)	4.53 (3) / 3.51 (4)

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
SEER					5.62 (5)	5.79 (5)	5.71 (5)	5.59 (5)
Dimensions	Packed unit	Depth		mm	650			
		Height		mm	1,053			
		Width		mm	1,500			
	Unit	Depth		mm	460			
		Height		mm	870			
		Width		mm	1,380			
Weight	Packed unit			kg	164			
	Unit			kg	147			
Packing	Material				PE wrapping foil / Carton / Wood			
	Weight			kg	17			
Casing	Colour				Ivory white			
	Material				Polyester painted galvanised steel plate			
Water heat exchanger	Quantity				1			
	Type				Plate heat exchanger			
	Filter	Diameter perforations		mm	0.8			
		Material			Stainless steel			
	Minimum water volume in the system			l	50 (6)			
	Water flow rate	Cooling	Nom.	l/min	26.8 (1) / 26.1 (2)	33.2 (1) / 33.0 (2)	36.8 (1) / 36.3 (2)	40.2 (1) / 43.9 (2)
		Heating	Nom.	l/min	26.9 (3) / 25.8 (4)	30.3 (3) / 28.2 (4)	34.4 (3) / 35.7 (4)	45.9 (3) / 45.9 (4)
	Water volume			l	2			
	Insulation material				Kaiflex			
	Model	Quantity			1			
		Type			ACH40-90AH			
Air heat exchanger	Type				High efficiency fin and tube type with integral subcooler			
	Face area			m^2	0,95+0,97+1,00			
	Fin	Treatment			Anti-corrosion treatment (PE)			
		Type			WF fin			
	Fin pitch			mm	14			
Air heat exchanger	Passes	Quantity			14			
	Rows	Quantity			3			
	Stages	Quantity			38			
Pump Standard	Nominal	Cooling		kPa	116	113	112	110
	ESP pump	Heating		kPa	116	114	113	106
	Nominal	Cooling		kPa	106.6	99.2	94.1	88.4
	ESP unit	Heating		kPa	107.5	105.2	95.7	76.7
	Efficiency level				IE2			
	Manufacturer				Grundfos			
	Model				UPMXL GEO 25-125 130 PWM			
	Power input			W	180			
	Quantity				1			
Hydraulic components	Anti freeze heater (optional)			W	265			
	Expansion vessel	Max. water pressure		bar	4			
		Pre pressure		bar	1			
		Volume		l	8			
	Safety valve			bar	3			
	Water filter	Diameter		inch	1"			
		Diameter perforations		mm	1			
Fan	Quantity				1			
	Type				Propeller fan			
	Air flow rate	Cooling	Nom.	m^3/min	63	70	85	
		Heating	Nom.	m^3/min	48.0	55.8	70.4	85.0
	Discharge direction				Horizontal			
Fan motor	Drive				Direct drive			
	Model				Brushless DC motor			
	Output			W	230			
	Quantity				1			
	Speed	Cooling	Nom.	rpm	500	550	650	
		Heating	Nom.	rpm	400	450	550	650
		Steps			8			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	1.35			
Compressor	Quantity				1			
	Type				Hermetically sealed swing inverter compressor			
	Model				2Y350BPAX1P#C			
Operation range	Air side	Cooling	Max.	°CDB	43			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Operation range	Air side	Cooling	Min.	°CDB	10			
		Heating	Max.	°CDB	25			
			Min.	°CDB	-25			
	Water side	Cooling	Max.	°CDB	22			
			Min.	°CDB	5			
		Heating	Max.	°CDB	60 (7)			
			Min.	°CDB	9 (7)			
Sound power level	Cooling	Nom.		dBA	65.5	67.0	69.0	
Sound pressure level	Cooling	Nom.		dBA	44.0	47.7	50.8	51.0
Refrigerant	Type				R-32			
	GWP				675.0			
Refrigerant charge	Per circuit			kg	3.80			
	Per circuit			TCO2Eq	2.6			
Refrigerant	Circuits	Quantity			1			
	Control				Electronic expansion valve			
PED	Category				Category II			
	Most critical part	Name			Accumulator			
		Ps*V		Bar*l	159			
Defrost control					Sensor for outdoor heat exchanger temperature			
Defrost method					Reversed cycle			
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			
		05			Compressor motor thermal protector			
General	Supplier/ Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
		Name or trademark			Daikin Europe N.V.			
	Product description	Air-to-water heat pump			Yes			
		Brine-to-water heat pump			No			
		Heat pump combination heater			No			
		Low-temperature heat pump			No			
		Supplementary heater integrated			No			
		Water-to-water heat pump			No			
LW(A) Sound power level (according to EN14825)				dB(A)	62.0			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)		m^3/h	2,880	3,350	4,220	5,100
	Other	Capacity control			Inverter			
Space heating general	Other	Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.023			
		Psb (Standby mode)		kW	0.023			
		Pto (Thermostat off)		kW	0.023			

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,404	6,134	6,651	7,359
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	22	24	26
			SCOP		3.44	3.37	3.42	3.37
			ηs (Seasonal space heating efficiency)	%	135	132	134	132
			Seasonal space heating eff. class		A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		2.09	1.90	2.02	1.95
			Pdh	kW	8.5	9.3	9.4	
			PERd	%	83.6	76.0	80.8	78.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.28	3.25	3.28	3.27
			Pdh	kW	5.0	5.4	6.2	6.9
			PERd	%	131.2	130.0	131.2	130.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.80	4.81	4.88	4.93
			Pdh	kW	4.4			
			PERd	%	192.0	192.4	195.2	197.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.45	6.41	6.58	6.60
			Pdh	kW	5.3			
			PERd	%	258.0	256.4	263.2	264.0
		Rated heat output	Psup (at Tdesign -10°C)	kW	2.2	2.4	3.2	4.1
		Tbiv (bivalent temperature)	COPd		1.92	1.90	2.09	2.13
			Pdh	kW	8.8	9.3	9.4	10.1
			PERd	%	76.8	76.0	83.6	85.2
			Tbiv	°C	-8	-7	-6	-5
		Tol (temperature operating limit)	COPd		1.70	1.64	1.70	1.67
			Pdh	kW	6.8	7.6	7.8	8.0
			PERd	%	68.0	65.6	68.0	66.8
			TOL	°C	-10			
			WTOL	°C	55			
	Cold climate water outlet	General	Annual energy consumption	kWh	7,376	8,196	8,808	9,599

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Space heating	Cold climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%	117		120	
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	27	30	32	35
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,820	3,083	3,690	
			ηs (Seasonal space heating efficiency)	%	168	170	172	
			Prated at 2°C	kW	9.0	10.0	12.1	
			Qhe Annual energy consumption (GCV)	Gj	10	11	13	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,854	4,371	4,838	5,281
			ηs (Seasonal space heating efficiency)	%	190	186	185	
			Prated at -10°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	14	16	17	19
			SCOP		4.82	4.73	4.70	4.69
			Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.07	3.03	2.95	2.87
			Pdh	kW	8.5	9.2	10.1	11.2
			PERd	%	122.8	121.2	118.0	114.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		4.52	4.37	4.35	4.33
			Pdh	kW	5.5		6.1	6.7
			PERd	%	180.8	174.8	174.0	173.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		6.78	6.74	6.70	6.83
			Pdh	kW	4.7	4.6		4.7
			PERd	%	271.2	269.6	268.0	273.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		8.75	8.54	8.65	8.82
			Pdh	kW	5.5	5.4		5.5
			PERd	%	350.0	341.6	346.0	352.8
		Rated heat output	Psup (at Tdesign -10°C)	kW	0.7		0.0	
		Tbiv (bivalent temperature)	COPd		2.75	2.58	2.51	2.48
			Pdh	kW	8.7	10.1	11.2	11.8
			PERd	%	110.0	103.2	100.4	99.2
			Tbiv	°C	-9		-10	
		Tol (temperature operating limit)	COPd		2.64	2.58	2.51	2.48
			Pdh	kW	8.3	10.1	11.2	11.8
			PERd	%	105.6	103.2	100.4	99.2
Space heating	Average climate water outlet	Tol (temperature operating limit)	TOL	°C	-10			
	Cold climate water outlet	General	ηs (Seasonal space heating efficiency)	%	163	169	170	160
	Average climate water outlet	Tol (temperature operating limit)	WTOL	°C	35			
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,351	5,732	6,266	7,245
			Prated at -22°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	19	21	23	26
	Warm climate water outlet 35°C	General	ηs (Seasonal space heating efficiency)	%	243	248	249	246
			Annual energy consumption	kWh	1,938	2,128	2,333	2,573
			Prated at 2°C	kW	9.0	10.0	11.0	12.0
			Qhe Annual energy consumption (GCV)	Gj	7	8		9

2 Specifications

1 - 1 EWYA-DV3P-H-, EWYA-DV3P, EWAA-DV3P, EWAA-DV3P-H, EWYA-DW1P, EWYA-DW1P-H-, EWAA-DW1P-H, EWAA-DW1P

Technical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Space cooling	A	Pdc		kW	9.35	11.6	12.8	14.0
	Condition 35°C	EERd			3.35	3.26	3.16	3.06
	B	Pdc		kW	7.02	8.84	9.89	10.8
	Condition 30°C	EERd			4.69	4.75	4.57	4.41
		Cdc			0.980	0.990		
	C	Pdc		kW	4.93	5.66	6.24	6.85
	Condition 25°C	Cdc			0.970			0.980
		EERd			6.70	6.91	6.80	6.56
	D	Pdc		kW	5.69	5.83	5.84	5.85
	Condition 20°C	EERd			8.22	8.45	8.42	8.51
		Cdc			0.970			
	ηs,c			%	222	229	226	221
Standard rating conditions used					Low temperature application			
Power consumption in other than active mode	Crankcase heater mode	PCK		W	0.00			
	Off mode	POFF		W	23.0			
	Standby mode	Cooling	PSB	W	23.0			
	Thermostat-off mode	PTO	Cooling	W	23			
Control systems	Class of temperature control				VI			
	Contribution to seasonal space heating efficiency			%	4.0			

Electrical specifications					EWYA009DV3P-H-	EWYA011DV3P-H-	EWYA014DV3P-H-	EWYA016DV3P-H-
Compressor	Starting method				Inverter			
Power supply	Name				V3			
	Phase				1~			
	Frequency			Hz	50			
	Voltage			V	230			
	Voltage range	Min.		%	-10			
		Max.		%	10			
Unit	Running current	Max		A	30.8			
	Recommended fuses			A	32			
Pump Standard	Phase				1~			
	Power supply	Frequency		Hz	50			
		Voltage		V	230			
	Current	Maximum running current		A	0.8			
	Power output	Rated		kW	180.0			
Compressor	Phase				3~			
	Voltage			V	230			
	Voltage range	Min.		%	-10			
		Max.		%	10			
Condenser heater tape	Supply voltage			V	230			
	Voltage range	Min.		%	-10			
		Max.		%	10			
Wiring connections	Preferential kWh rate power supply	Quantity			Power: 2			
		Remark			Power 6.3A (Select diameter and type according to national and local regulations)			
	For connection with user interface	Type of wires			0,75 ~1,25 mm² (P1P2)			
		Quantity			4			
		Remark			O.75 mm² till 1.25 mm² (max length 200 m)			
	For connection with R6T	Quantity			2			
		Remark			Minimum 0.75 mm²			
	General				See installation manual			

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

3 Combination table

3 - 1 Combination Table

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

Kit availability for ·EW(A/Y)*DA*·

Reference	Description	Notes	EW(A/Y)A(009/011/014/016)DA* (-H-)	
			STD / (OP10)	
			Cooling only	Heat pump
			EWAA(011/014/016) DA(V3P/W1P) (-H-)	EWYA(009/011/014/016) DA(V3P/W1P) (-H-)
EKRP1HBAA	Digital I/O PCB	(1)	o	o
EKRP1AHTA	Demand PCB		o	o
BRC1HHDA*	Remote user interface		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
EKLBUHCB6W	Backup heater kit	(4)(5)	-	o
EKMBHBP1	Valve kit	(4)(5)	-	o
EKFLSW1	Flow switch	(6)	o	o
AFVALVE1	Freeze protection valve		o	o
EKRTWA	Wired room thermostat		o	o
EKRTR1	Wireless room thermostat		o	o
EKRTETS	External temperature sensor option kit	(7)	o	o

Notes

(1) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.

(2) This option cannot be installed in certain countries. Refer to the country compliance overview of the option.

(3) Only 1 remote sensor can be connected: indoor OR outdoor sensor.

(4) Only for reversible models

(5) Necessity to install a bypass kit ·EKMBHBP1· to avoid sweat on the BUH, when the BUH is installed in combination with a reversible model.

(6) ·EKFLSW1· is obligatory for Monoblock & Mini-chiller in case Glycol is used.

(7) Can only be used in combination with the wireless room thermostat.

Remark

Other combinations than mentioned in this combination table are prohibited.

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4 Capacity tables

4 - 1 Cooling Capacity Tables

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

100% 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]
EWYA009DA*	7	10,99	1,58	11,00	2,29	11,01	2,99	11,02	3,70	10,24	4,07	9,77	4,30
	10	12,48	1,53	12,47	2,34	12,46	3,16	12,44	3,97	11,12	4,08	10,33	4,14
	13	13,97	1,48	13,94	2,40	13,90	3,32	13,87	4,24	12,01	4,08	10,89	3,99
	15	14,61	1,49	14,69	2,44	14,77	3,39	14,84	4,34	12,88	4,19	11,71	4,10
	18	15,56	1,50	15,81	2,50	16,06	3,49	16,31	4,48	14,19	4,35	12,92	4,27
	22	16,84	1,52	17,31	2,57	17,79	3,63	18,26	4,68	15,94	4,56	14,55	4,49
EW(Y/A)A011DA*	7	13,84	2,29	13,46	3,07	13,07	3,84	12,68	4,62	10,94	4,39	9,90	4,26
	10	15,21	2,34	14,94	3,20	14,66	4,06	14,38	4,92	11,94	4,41	10,47	4,10
	13	16,58	2,39	16,41	3,33	16,25	4,27	16,08	5,21	12,94	4,42	11,05	3,94
	15	17,42	2,47	17,26	3,40	17,11	4,33	16,95	5,27	13,78	4,51	11,87	4,05
	18	18,68	2,59	18,54	3,51	18,40	4,42	18,25	5,34	15,04	4,64	13,11	4,21
	22	20,36	2,75	20,24	3,65	20,11	4,55	19,99	5,44	16,72	4,81	14,76	4,42
EW(Y/A)A014DA*	7	16,80	3,30	15,56	3,65	14,32	3,99	13,09	4,34	11,26	4,20	10,16	4,11
	10	18,43	3,40	17,22	3,78	16,02	4,15	14,82	4,52	12,29	4,15	10,77	3,93
	13	20,06	3,51	18,89	3,91	17,72	4,31	16,55	4,71	13,31	4,11	11,37	3,75
	15	21,01	3,59	19,82	3,97	18,63	4,34	17,45	4,71	14,18	4,15	12,22	3,81
	18	22,44	3,72	21,22	4,05	20,00	4,38	18,79	4,71	15,48	4,21	13,49	3,90
	22	24,34	3,90	23,09	4,17	21,83	4,44	20,58	4,71	17,21	4,28	15,19	4,02
EW(Y/A)A016DA*	7	17,31	3,59	16,21	3,93	15,11	4,28	14,01	4,63	11,60	4,31	10,16	4,11
	10	19,25	3,80	17,92	4,09	16,60	4,38	15,28	4,67	12,46	4,21	10,77	3,93
	13	21,18	4,02	19,64	4,25	18,09	4,48	16,55	4,71	13,31	4,11	11,37	3,75
	15	22,18	4,12	20,60	4,32	19,02	4,51	17,45	4,71	14,18	4,15	12,22	3,81
	18	23,67	4,27	22,04	4,42	20,42	4,56	18,79	4,71	15,48	4,21	13,49	3,90
	22	25,66	4,47	23,96	4,55	22,27	4,63	20,58	4,71	17,21	4,28	15,19	4,02

Symbols

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

Conditions

Cooling capacity

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

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3~8°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 and W1 models at 400 V.
The capacity and the power input are at maximum operation.

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4 Capacity tables

4 - 3 Heating Capacity Tables

EWYA-DW1P(-H-) / EWYA-DV3P(-H-)

100% heating capacity - integrated value

	LWC [°C]	25		30		35		40		45		50		55		60	
	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]
EWYA009DA*	-20	6,80	2,74	6,68	2,97	6,57	3,20	6,45	3,43								
	-15	7,49	2,77	7,28	2,99	7,08	3,21	7,32	3,66	7,56	4,11						
	-7	8,59	2,81	8,24	3,01	7,89	3,22	8,13	3,55	8,37	3,88	8,52	4,34	8,49	4,89	7,63	4,49
	-2	9,09	2,76	9,00	3,02	8,91	3,27	8,89	3,51	8,88	3,74	9,11	4,23	9,34	4,82	8,12	4,50
	2	9,21	2,49	9,10	2,73	8,98	2,97	9,22	3,38	9,45	3,79	9,37	4,01	9,29	4,32	8,29	4,51
	7	9,15	1,40	9,79	1,79	10,42	2,17	10,24	2,56	10,06	2,94	9,81	3,13	9,57	3,32	10,70	4,78
	12	14,06	2,44	13,80	2,81	13,55	3,18	13,43	3,52	13,32	3,87	13,11	4,23	12,90	4,68	12,81	4,98
	15	16,12	2,24	15,60	2,64	15,09	3,04	15,09	3,38	15,10	3,72	14,62	4,13	14,15	4,62	13,90	4,99
	20	19,55	1,92	18,60	2,37	17,65	2,81	17,86	3,14	18,08	3,47	17,15	3,95	16,22	4,52	15,72	4,99
EWYA011DA*	-20	8,65	3,66	8,55	3,94	8,45	4,21	8,35	4,49								
	-15	9,03	3,56	8,80	3,87	8,58	4,19	8,91	4,72	9,24	5,26						
	-7	9,64	3,40	9,21	3,77	9,10	3,72	9,65	4,66	10,51	5,18	9,89	5,23	9,08	5,38	7,68	4,64
	-2	10,46	3,33	10,27	3,66	10,08	3,99	10,69	4,55	11,31	5,12	10,50	4,97	9,69	4,92	8,26	4,64
	2	10,61	2,90	10,35	3,10	10,08	3,31	10,51	3,89	10,94	4,48	10,70	4,62	10,45	4,85	8,52	4,64
	7	10,35	1,62	11,33	2,09	12,31	2,57	12,30	3,17	12,28	3,76	11,87	3,93	11,46	4,10	11,68	5,30
	12	14,59	2,38	14,32	2,74	14,06	3,11	13,90	3,46	13,74	3,81	13,50	4,17	13,27	4,62	13,13	4,94
	15	16,21	2,22	15,91	2,60	15,60	2,98	15,36	3,34	15,13	3,71	14,84	4,09	14,56	4,55	14,25	4,93
	20	18,91	1,96	18,54	2,36	18,18	2,76	17,81	3,16	17,44	3,55	17,08	3,95	16,71	4,44	16,12	4,93
EWYA014DA*	-20	9,05	3,85	8,91	4,15	8,78	4,44	8,65	4,74								
	-15	9,49	3,72	9,51	4,06	9,53	4,41	9,84	5,12	10,16	5,83						
	-7	10,20	3,50	10,46	3,93	10,73	4,35	10,77	4,81	10,82	5,26	10,11	5,30	9,21	5,45	7,70	4,75
	-2	11,14	3,43	11,32	3,81	11,49	4,19	11,36	4,55	11,23	4,91	10,56	4,90	9,89	4,99	8,32	4,74
	2	11,34	3,07	11,22	3,33	11,10	3,60	11,44	4,18	11,77	4,75	11,26	4,79	10,75	4,93	8,64	4,73
	7	13,89	2,45	13,79	2,70	13,69	2,95	13,81	3,54	13,92	4,13	13,44	4,37	12,96	4,62	12,15	5,27
	12	15,65	2,28	15,37	2,63	15,09	2,97	14,83	3,33	14,57	3,70	14,28	4,06	14,00	4,52	13,76	4,86
	15	16,88	2,16	16,56	2,53	16,25	2,89	15,95	3,27	15,65	3,64	15,33	4,02	15,01	4,49	14,65	4,89
	20	18,91	1,96	18,54	2,36	18,18	2,76	17,81	3,16	17,44	3,55	17,08	3,95	16,71	4,44	16,12	4,93
EWYA016DA*	-20	9,56	4,03	9,32	4,35	9,07	4,68	8,82	5,01								
	-15	10,01	3,86	9,94	4,23	9,87	4,59	9,89	5,17	9,90	5,75						
	-7	10,72	3,60	10,93	4,02	11,15	4,44	11,11	4,89	11,07	5,35	10,47	5,44	9,67	5,64	7,71	4,86
	-2	11,65	3,52	11,84	3,89	12,02	4,25	11,91	4,67	11,80	5,09	10,92	5,01	10,04	5,03	7,94	4,79
	2	12,35	3,27	12,35	3,60	12,35	3,94	12,48	4,45	12,62	4,97	11,80	4,95	10,99	5,03	8,71	4,73
	7	15,14	2,74	15,55	3,13	15,96	3,52	15,77	4,05	15,59	4,59	15,61	5,16	15,64	5,74	12,88	5,32
	12	17,76	2,53	17,42	2,88	17,08	3,24	16,63	3,59	16,18	3,93	15,72	4,28	15,27	4,72	14,82	5,07
	15	18,43	2,30	18,08	2,67	17,73	3,04	17,31	3,40	16,89	3,76	16,47	4,12	16,05	4,57	15,49	4,99
	20	19,55	1,92	19,18	2,31	18,82	2,70	18,45	3,09	18,08	3,47	17,71	3,86	17,34	4,34	16,63	4,85

Symbols

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

Conditions

Cooling capacity

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

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3~8°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 and W1 models at 400 V.
The capacity and the power input are at maximum operation.

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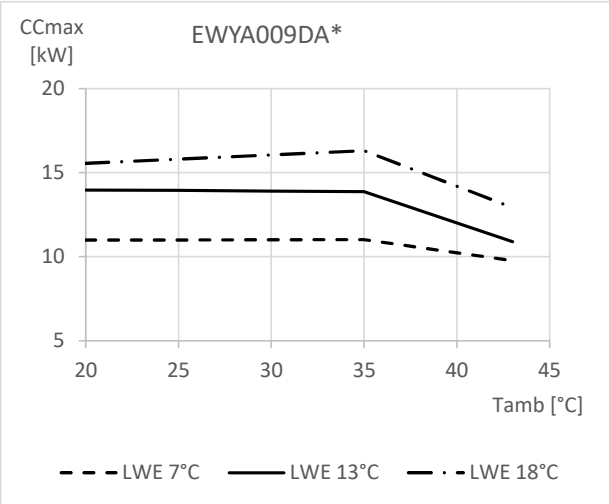
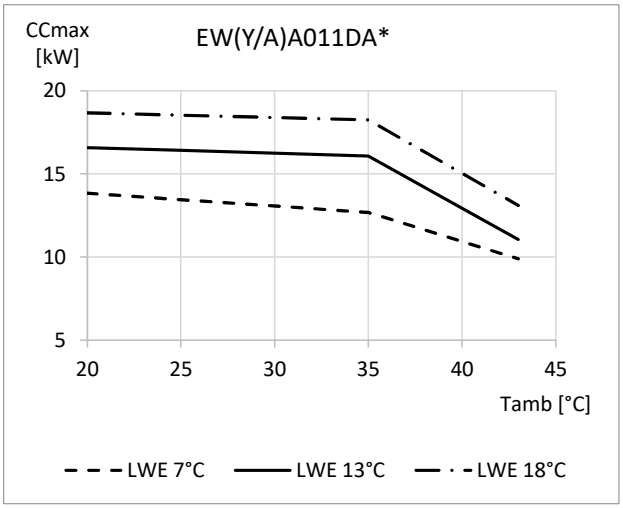
5 Capacity graphs

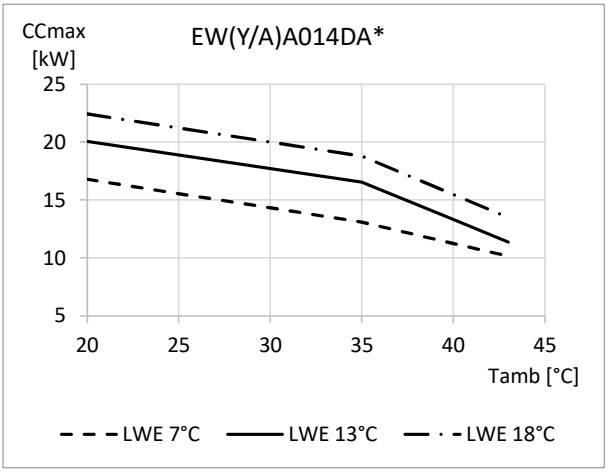
5 - 1 Cooling Capacity Graphs

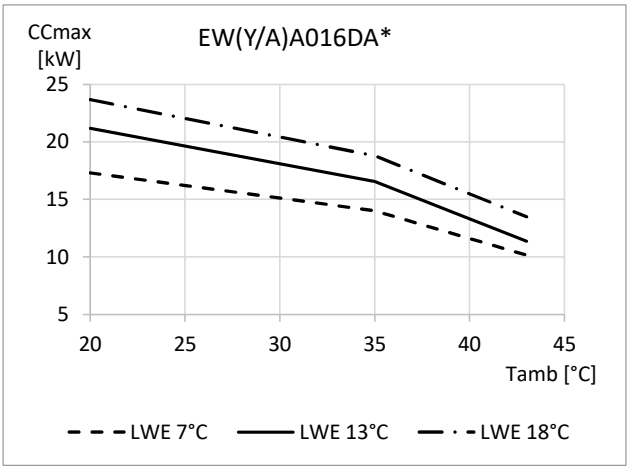
EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

Maximum cooling capacity









Symbols

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

LWE Leaving water evaporator temperature [°C]

Tamb Ambient temperature [°C DB]

Conditions

Cooling capacity

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

Notes

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

The capacity and the power input are at maximum operation.

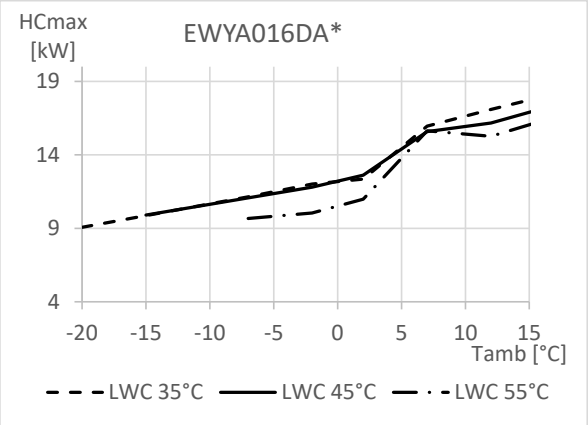
4D130968

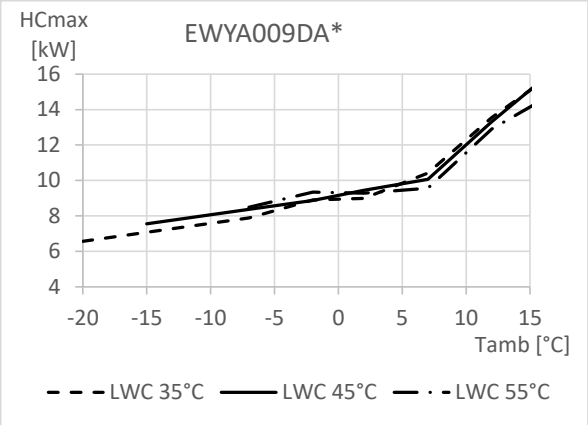
5 Capacity graphs

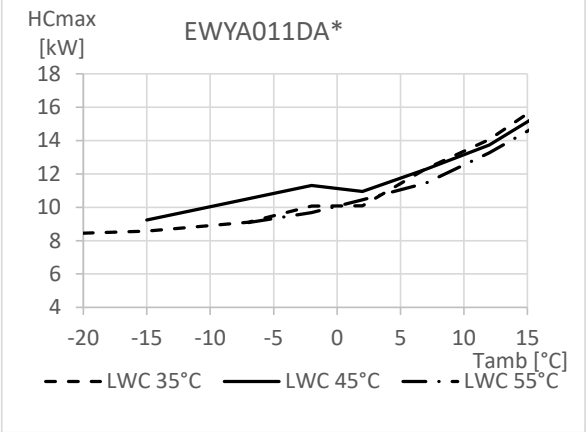
5 - 2 Heating Capacity Graphs

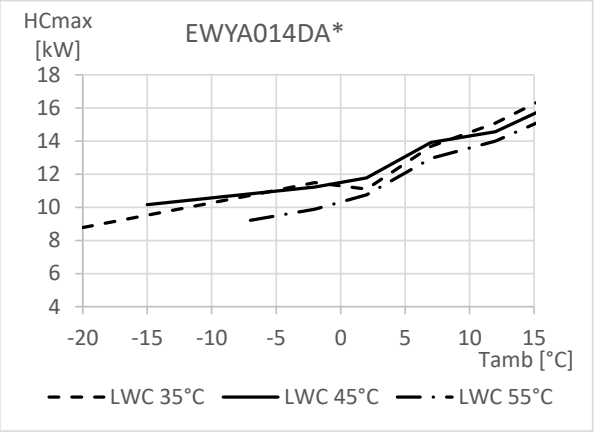
EWYA-DW1P(-H-) / EWYA-DV3P(-H-)

Maximum heating capacity - integrated value









Symbols

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

Conditions

Heating capacity

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

Notes

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

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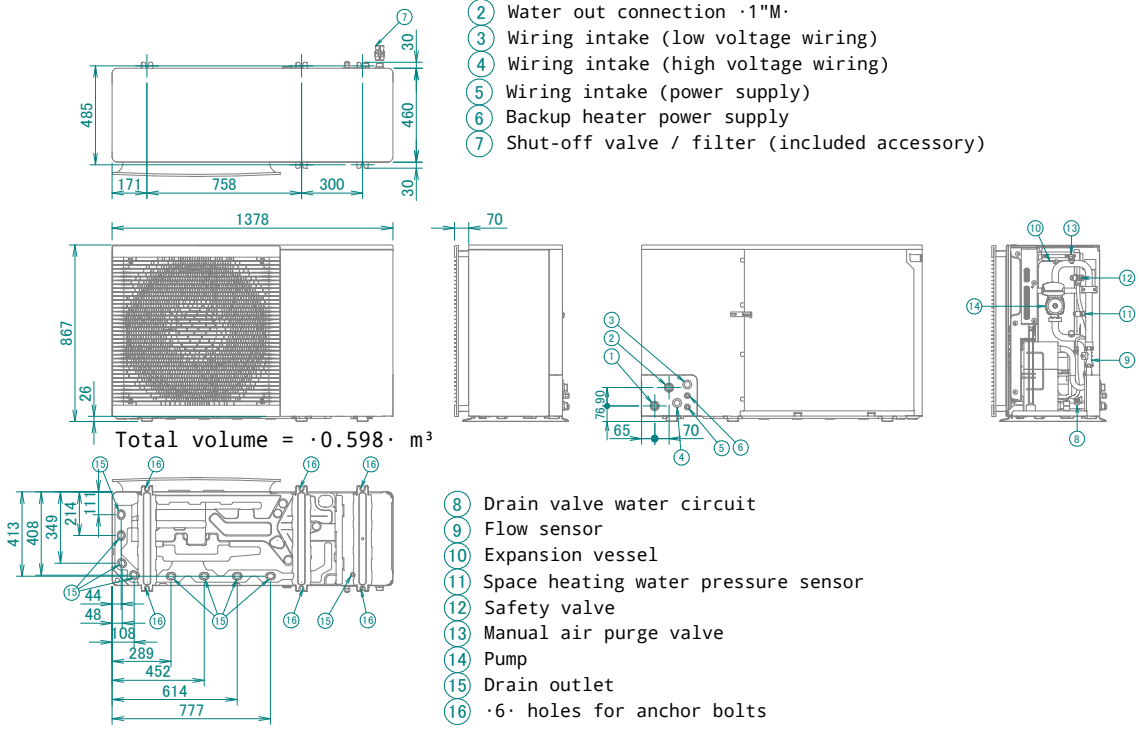
6 Dimensional drawings

6 - 1 Dimensional Drawings

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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

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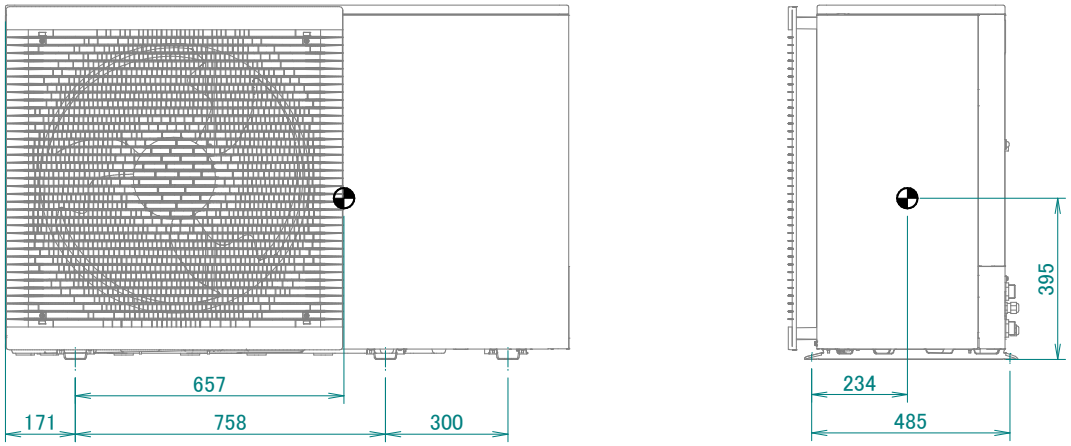
7 Centre of gravity

7 - 1 Centre of Gravity

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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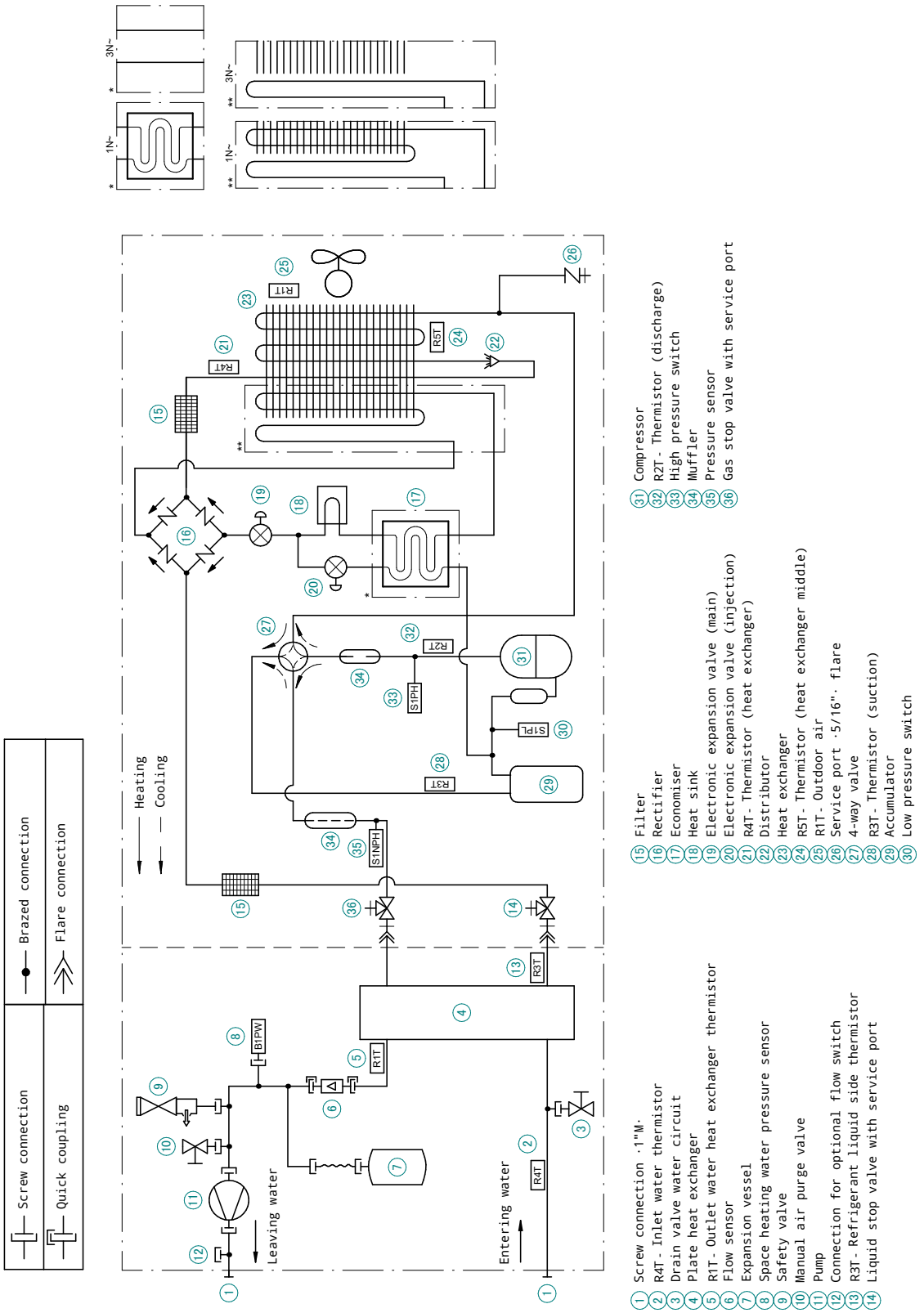
8 Piping diagrams

8 - 1 Piping Diagrams

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



(31) Compressor
(32) R2T- Thermistor (discharge)
(33) High pressure switch
(34) Muffler
(35) Pressure sensor
(36) Gas stop valve with service port

(15) Filter
(16) Rectifier
(17) Economiser
(18) Heat sink
(19) Electronic expansion valve (main)
(20) Electronic expansion valve (injection)
(21) R4T- Thermistor (heat exchanger)
(22) Distributor
(23) Heat exchanger
(24) R5T- Thermistor (heat exchanger middle)
(25) R1T- Outdoor air
(26) Service port ·5/16"· flare
(27) 4-way valve
(28) R3T- Thermistor (suction)
(29) Accumulator
(30) Low pressure switch

(1) Screw connection ·1"M·
(2) R4T- Inlet water thermistor
(3) Drain valve water circuit
(4) Plate heat exchanger
(5) R1T- Outlet water heat exchanger thermistor
(6) Flow sensor
(7) Expansion vessel
(8) Space heating water pressure sensor
(9) Safety valve
(10) Manual air purge valve
(11) Pump
(12) Connection for optional flow switch
(13) R3T- Refrigerant liquid side thermistor
(14) Liquid stop valve with service port

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9 Wiring diagrams

9 - 1 Notes & Legend

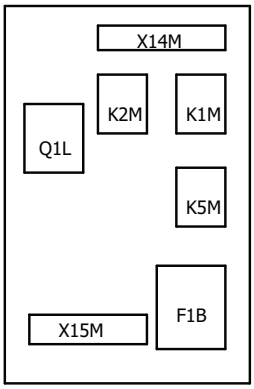
EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

(2) Notes

X14M, X15M : Main terminal
: Earth wiring
15 : Wire number 15
: Field supply
1 : Several wiring possibilities
: Option
: Wiring depending on model
: 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 (1kW)
E2H		BUH element (2kW)
F1B		Overcurrent fuse BUH
F1T		Thermal fuse BUH
F1U		Fuse
K1M		Contactor BUH (Step 1)
K2M		Contactor BUH (Step 2)
K5M		Safety contactor BUH
Q3DI	#	Earth leakage circuit breaker
Q1L		Thermal protector BUH
R2T		Outlet BUH thermistor
X*M		Terminal strip

: field supply

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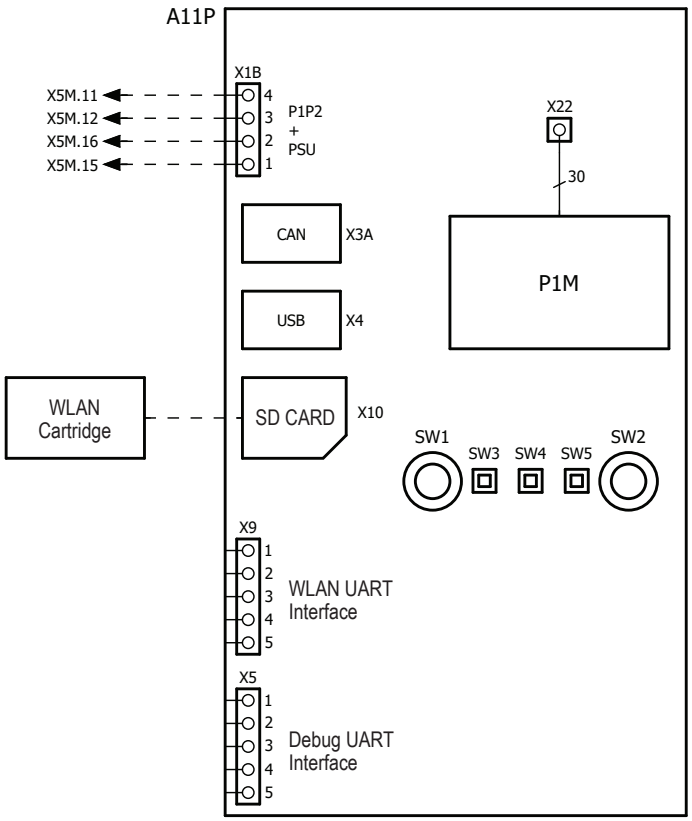
9 Wiring diagrams

9 - 2 Control Circuit

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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9 Wiring diagrams

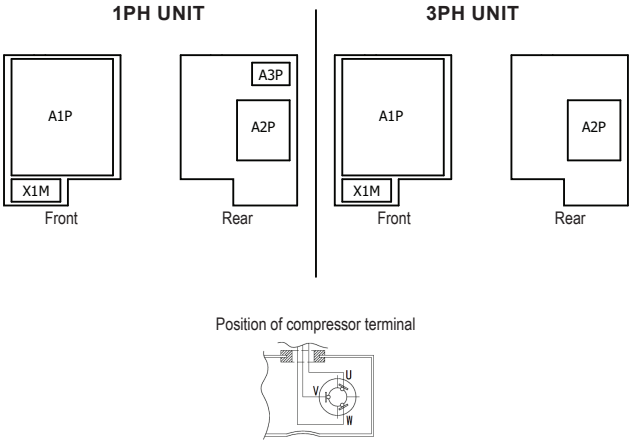
9 - 3 Compressor - Notes & Legend

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

NOTES to go through before starting the unit

X1M : Main terminal
: Earth wiring
: Field supply
(1) : Several wiring possibilities
: Option
: Wiring depending on model
: Not mounted in switch box
: PCB

POSITION IN SWITCH BOX



NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS4 and DS1 switches.
2. When operating, do not short-circuit protection device Q1, S1PH and S1PL.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X77A.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green; BRN:brown; YLW:yellow; ORG:orange
5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: OFF

LEGEND

1PH UNIT

Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
A3P		Printed circuit board (flash)
C* (A*P)		Capacitor
BS* (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
F1U, F3U~F4U (A2P)		Fuse T 6,3 A 250 V
F2U (A2P)		Fuse T 56 A 250 V
F6U (A1P)		Fuse T 5 A 250 V
H1~7P (A1P)		Indication light emitting diode (service monitor is orange)
HAP (A1P)		Light emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic relay (main)
K14~15R (A2P)		Magnetic relay
L*R (A1P)		Reactor
M1C		Compressor motor
M1F		Fan motor
PS (A1P)		Switching power supply
Q1		Thermal overcurrent protector
Q1DI	#	Earth leakage circuit breaker (30mA)
R1~5 (A*P)		Resistor
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (distribution pipe)
R5T		Thermistor (heat exchanger middle)
R11T (A1P)		Thermistor (fin)
RC (A2P)		Signal receiver circuit
S1NPH		Pressure sensor
S1PH		High pressure switch
S1PL		Low pressure switch
TC (A2P)		Signal transmission circuit
V*D (A1P)		Diode
V1R (A1P)		Power module
V2R (A1P)		Diode module
V*T (A1P)		IGBT
X1M		Terminal strip
X*A, X*Y (A*P)		Connector
Y1E, Y3E		Electronic expansion valve
Y1S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A*P)		Noise filter

3PH UNIT

Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
C* (A1P)		Capacitor
BS* (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
F1U, F3U (A2P)		Fuse T 6,3 A 250 V
F4U, F5U (A2P)		Fuse T 30 A 500 V
F7U (A1P)		Fuse T 5 A 250 V
HAP (A1P)		Light emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K5~8R (A1P)		Magnetic relay
K*M (A1P)		Magnetic relay (main)
L*R (A*P)		Reactor
M1C		Compressor motor
M1F		Fan motor
PS (A1P)		Switching power supply
Q1		Thermal overcurrent protector
Q1DI	#	Earth leakage circuit breaker (30mA)
R1~9 (A1P)		Resistor
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (distribution pipe)
R5T		Thermistor (heat exchanger middle)
R11T (A1P)		Thermistor (fin)
RC (A1P)		Signal receiver circuit
S1NPH		Pressure sensor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG* (A1P)		7-segment display
TC (A1P)		Signal transmission circuit
V*D (A1P)		Diode
V1~2R (A1P)		Diode module
V3~5R (A1P)		Power module
X1M		Terminal strip
X*A, X*Y (A*P)		Connector
Y1E, Y3E		Electronic expansion valve
Y1S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A*P)		Noise filter

* : optional # : field supply

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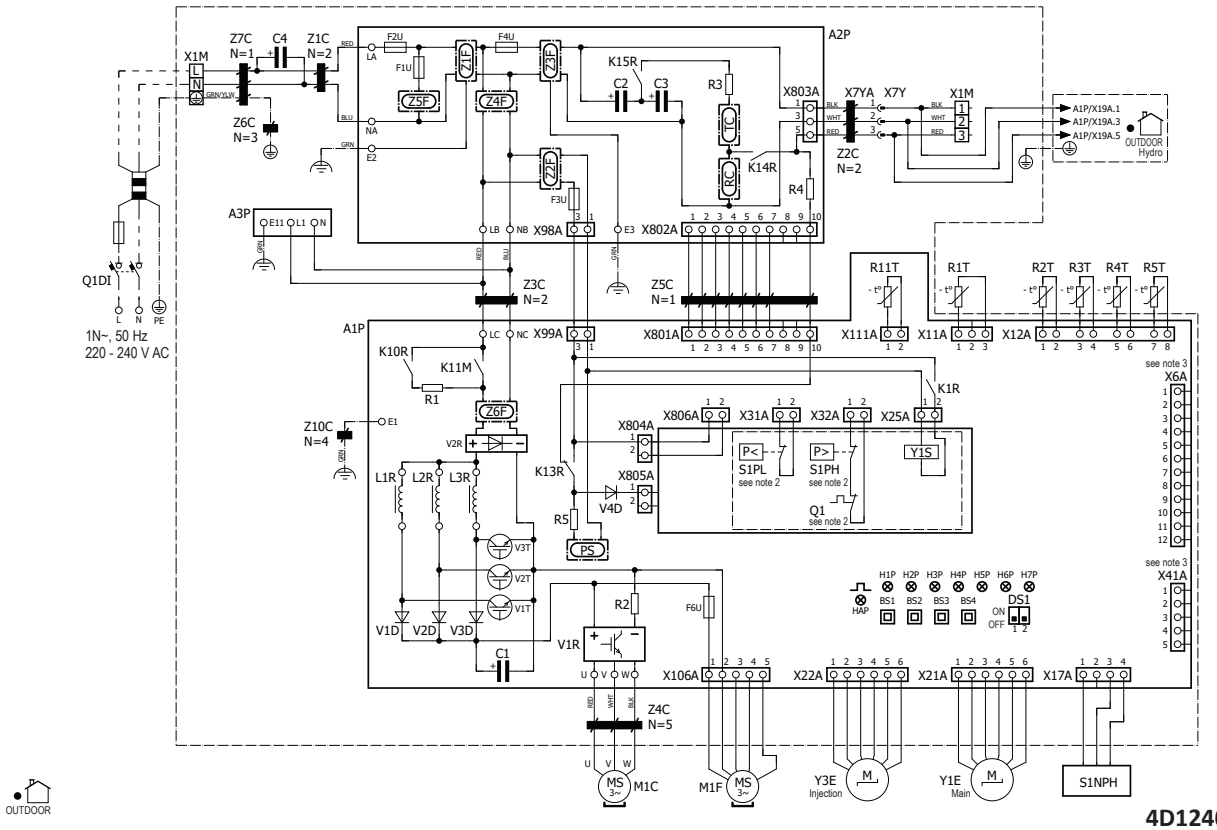
9 Wiring diagrams

9 - 4 Compressor - Single phase

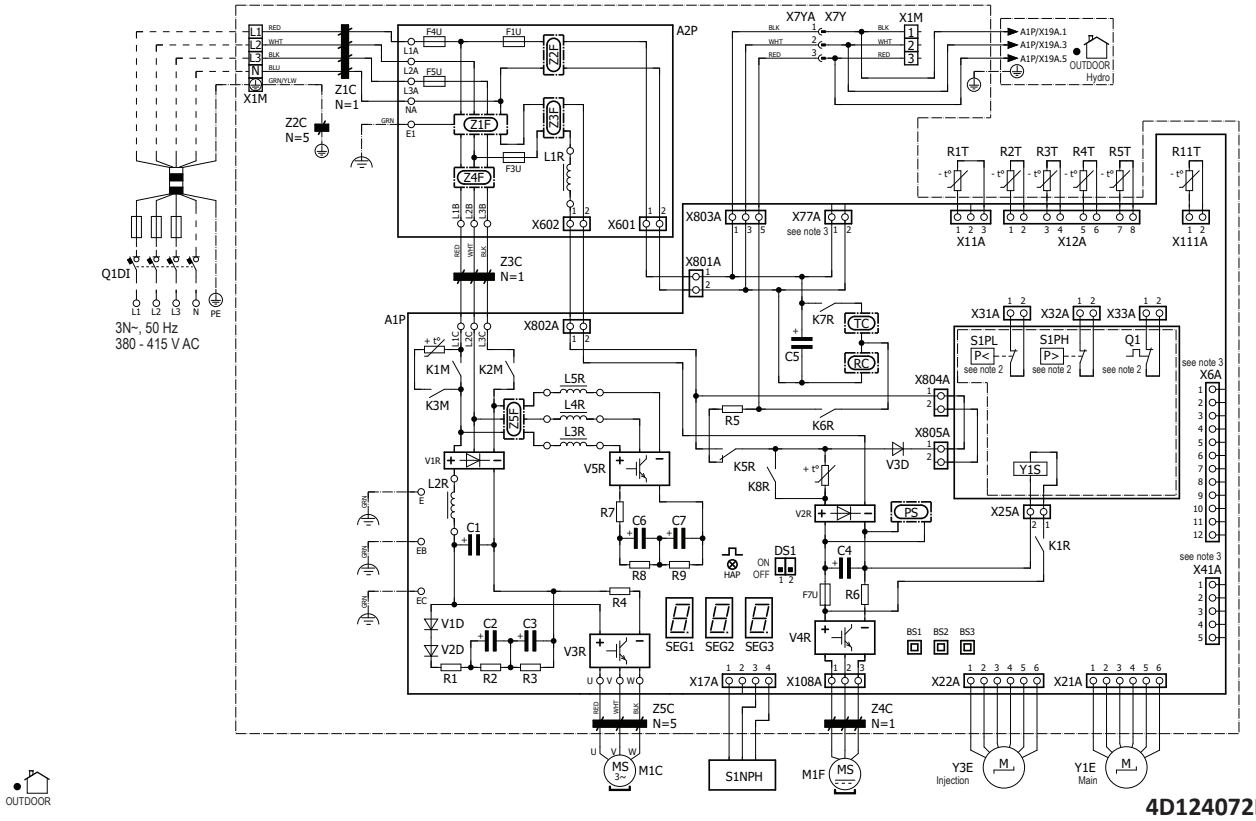
EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



9 Wiring diagrams

9 - 5 Compressor - Three phase

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



9 Wiring diagrams

9 - 6 Hydro Module - Notes & Legend

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

NOTES to go through before starting the unit

X1M : Main terminal
X2M : Field wiring terminal for AC
X3M : External backup heater terminal
X4M : Booster heater power supply terminal
X5M : Field wiring terminal for DC
X9M : Internal backup heater power supply terminal
X10M : Smartgrid terminal
: Earth wiring
: Field supply
: Several wiring possibilities
: Option
: Wiring depending on model
: Not mounted in switch box
: PCB

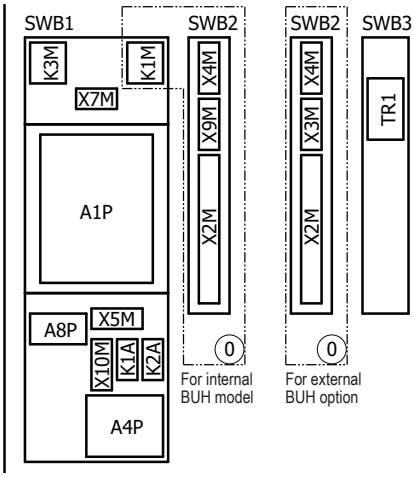
Backup heater power supply: ☐ 3V (1N~, 230V, 3kW)

User installed options:
☐ Domestic hot water tank
☐ External backup heater
☐ Booster heater
☐ Remote user interface
☐ Ext. indoor thermistor
☐ Ext. outdoor thermistor
☐ Digital I/O PCB
☐ Demand PCB
☐ Smart grid
☐ WLAN cartridge
☐ Bypass kit

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

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

POSITION IN SWITCH BOX



NOTES

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

LEGEND

Part n°		Description
A1P		main PCB
A2P	*	ON/OFF thermostat (PC=power circuit)
A3P	*	heat pump convector
A4P	*	digital I/O PCB
A8P	*	demand PCB
A11P		MMI main PCB
A14P	*	user interface PCB
A15P	*	receiver PCB (wireless ON/OFF thermostat)
B1L		flow sensor
B1PW		water pressure sensor
CN* (A4P)	*	connector
DS1 (A8P)	*	dipswitch
E3H		backup heater element (3 kW)
E5H	*	booster heater element (2,4 kW)
E6H		PHE heater (50 W)
E7H		OP10 heater (33 W)
E8H		OP10 heater (50 W)
E9H		expansion vessel heater (50 W)
E10H		expansion vessel flex heater (15,6 W)
E11H, E12H		PHE heater IN/OUT (33 W)
E*P (A9P)		indication LED
F1B	#	overcurrent fuse backup heater
F1T		thermal fuse backup heater
F2B	#	overcurrent fuse booster heater
F2T		thermal fuse booster heater
F1U, F2U (A4P)	*	fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)		fuse T 5 A 250 V for PCB
K1A, K2A	*	high voltage smartgrid relay
K1M		contactor backup heater
K3M	*	contactor booster heater
K*R (A1P-A4P)		relay on PCB
M1P		main supply pump
M2P	#	domestic hot water pump
M2S	#	2 way valve for cooling mode
M3S	*	3 way valve for floorheating /domestic hot water
M4S	*	valve kit
P1M		MMI display

Part n°		Description
PC (A15P)	*	power circuit
PHC1 (A4P)	*	optocoupler input circuit
Q1L		thermal protector backup heater
Q2L	*	thermal protector booster heater
Q4L	#	safety thermostat
Q*DI	#	earth leakage circuit breaker
R1H (A2P)	*	humidity sensor
R1T (A1P)		outlet water heat exchanger thermistor
R1T (A2P)	*	ambient sensor On/OFF thermostat
R1T (A14P)	*	ambient sensor user interface
R2T (A1P)		internal BUH sensor
R2T (A2P)	*	external sensor (floor or ambient)
R3T		refrigerant liquid side thermistor
R4T		inlet water thermistor
R5T	*	domestic hot water thermistor
R6T	*	external indoor or outdoor ambient thermistor
S1L	*	flow switch
S1S	#	preferential kWh rate PS contact
S1T		thermostat
S2S	#	electrical meter pulse input 1
S3S	#	electrical meter pulse input 2
S4S	#	smartgrid feed-in
S6S-S9S	*	digital power limitation inputs
S10S-S11S	#	low voltage smartgrid contact
SS1 (A4P)	*	selector switch
SW1~2 (A11P)		turn buttons
SW3~5 (A11P)		push button
TR1		power supply transformer
X4M	*	booster heater power supply terminal strip
X6M, X8M	#	power supply terminal strip client
X9M		backup heater power supply terminal strip
X10M	*	smartgrid power supply terminal strip
X*, X*A, X*Y		connector
X*M		terminal strip
Z*C		noise filter (ferrite core)

* : optional
# : field supply

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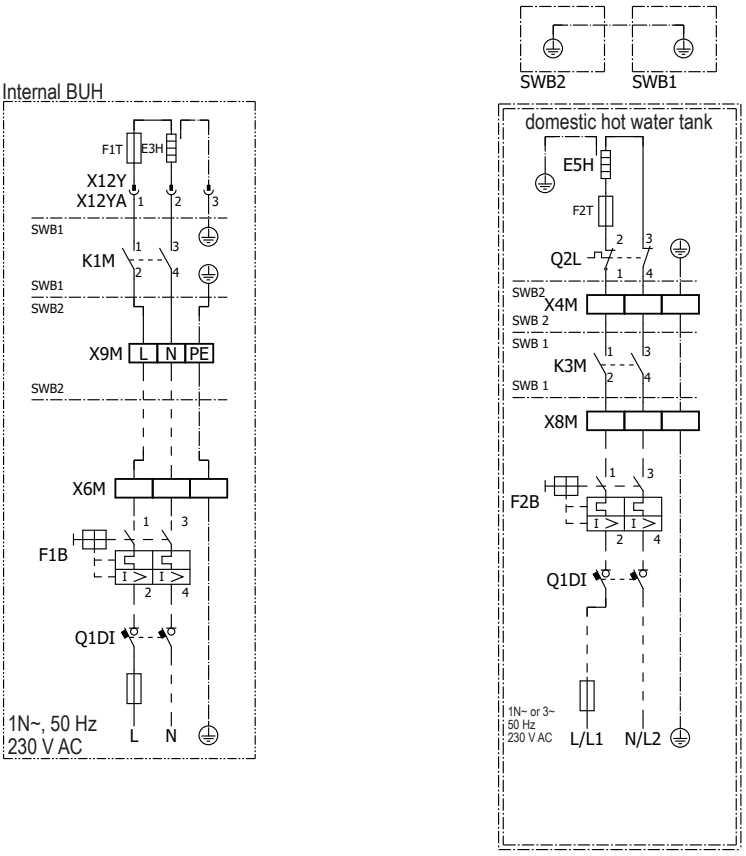
9 Wiring diagrams

9 - 7 Hydro Module - Power Supply, Back-up Heater

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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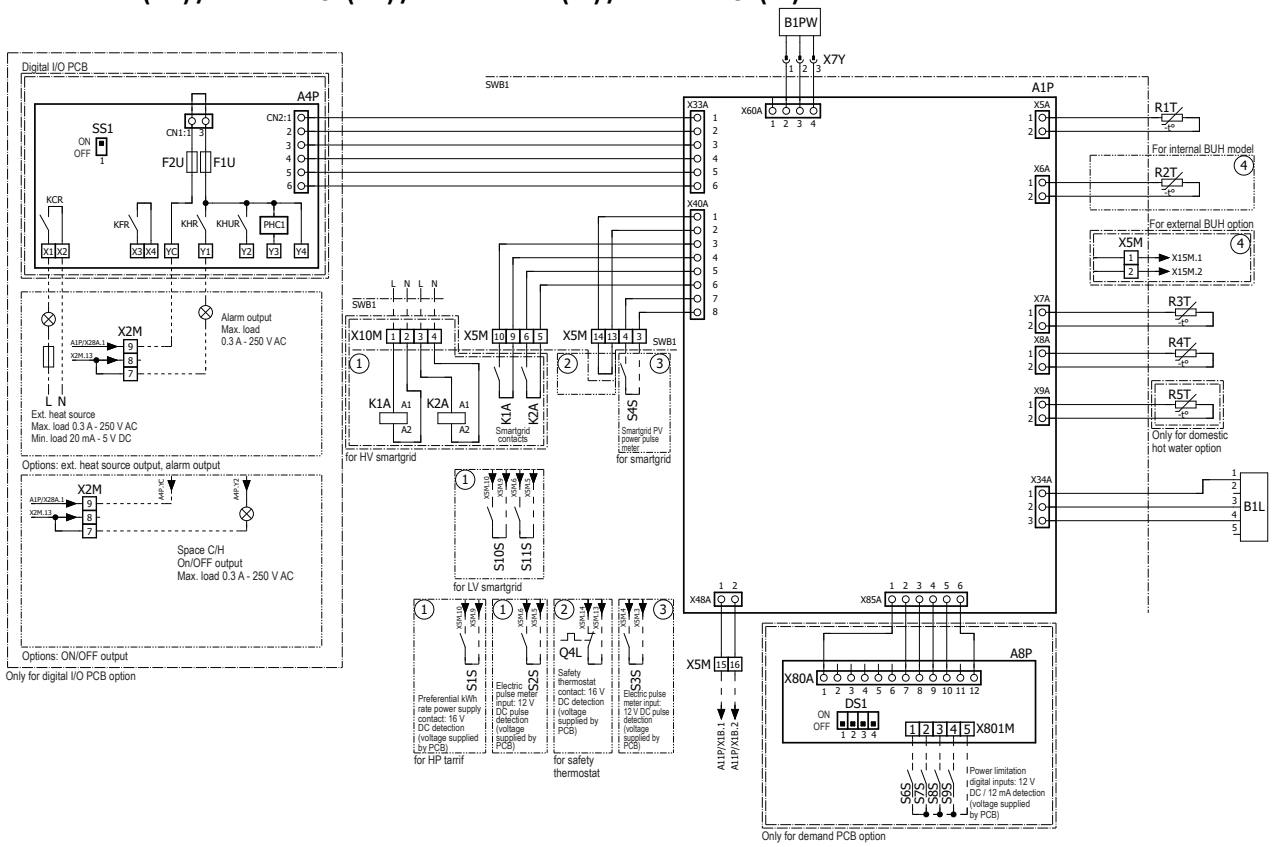
9 Wiring diagrams

9 - 8 Hydro Module - Control Circuit

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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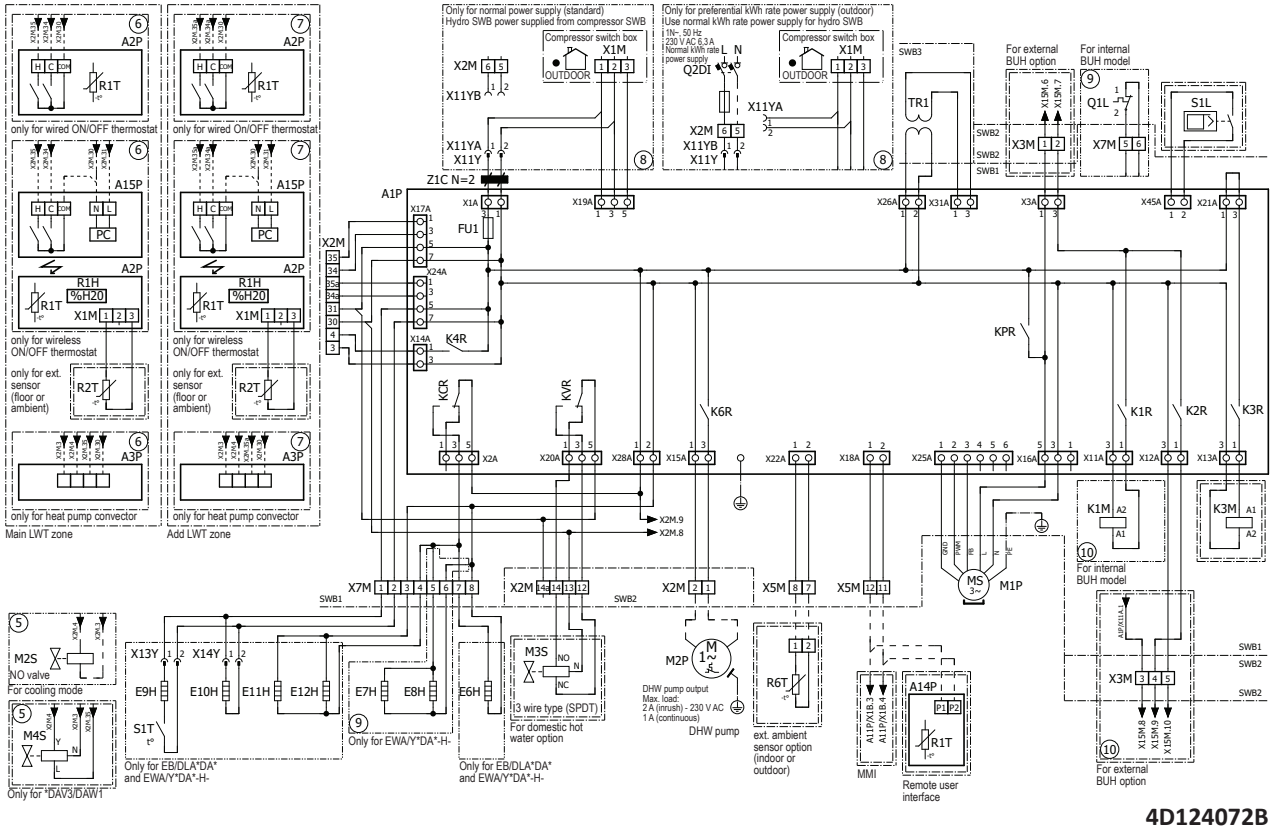
EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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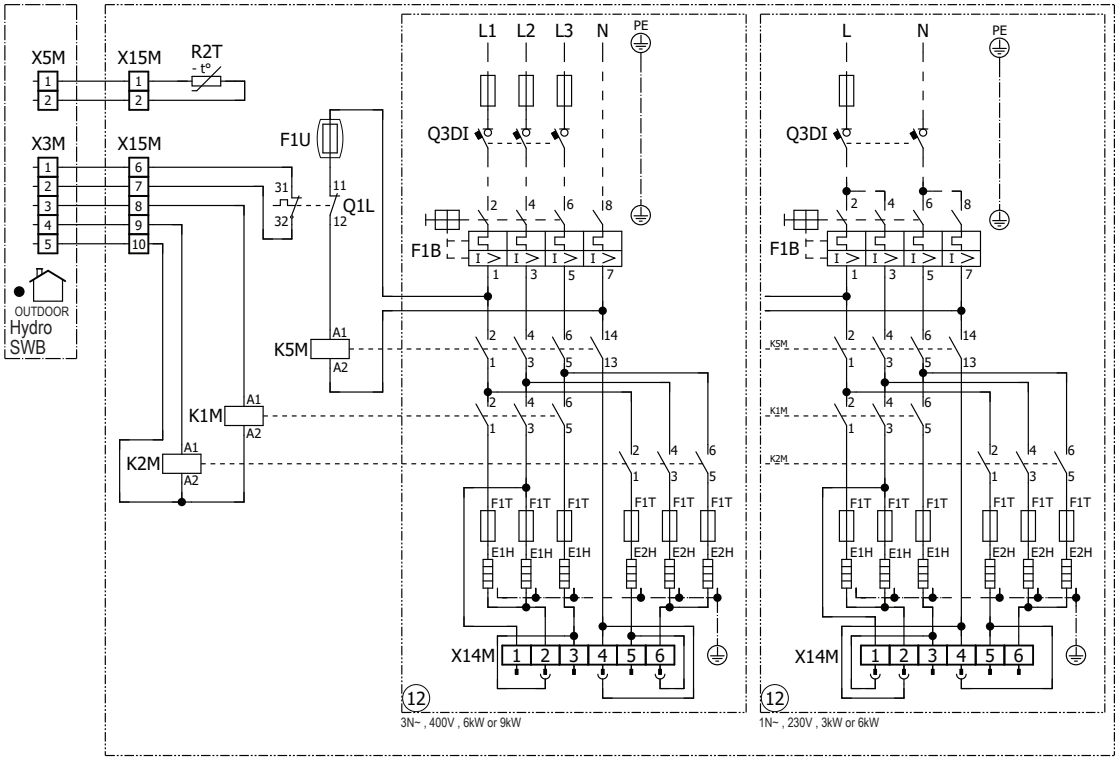
9 Wiring diagrams

9 - 9 External back-up heater - Option Circuit

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

(1) Connection diagram



BUH Option (EKLBUHCB6W1)

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10 External connection diagrams

10 - 1 External Connection Diagrams

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

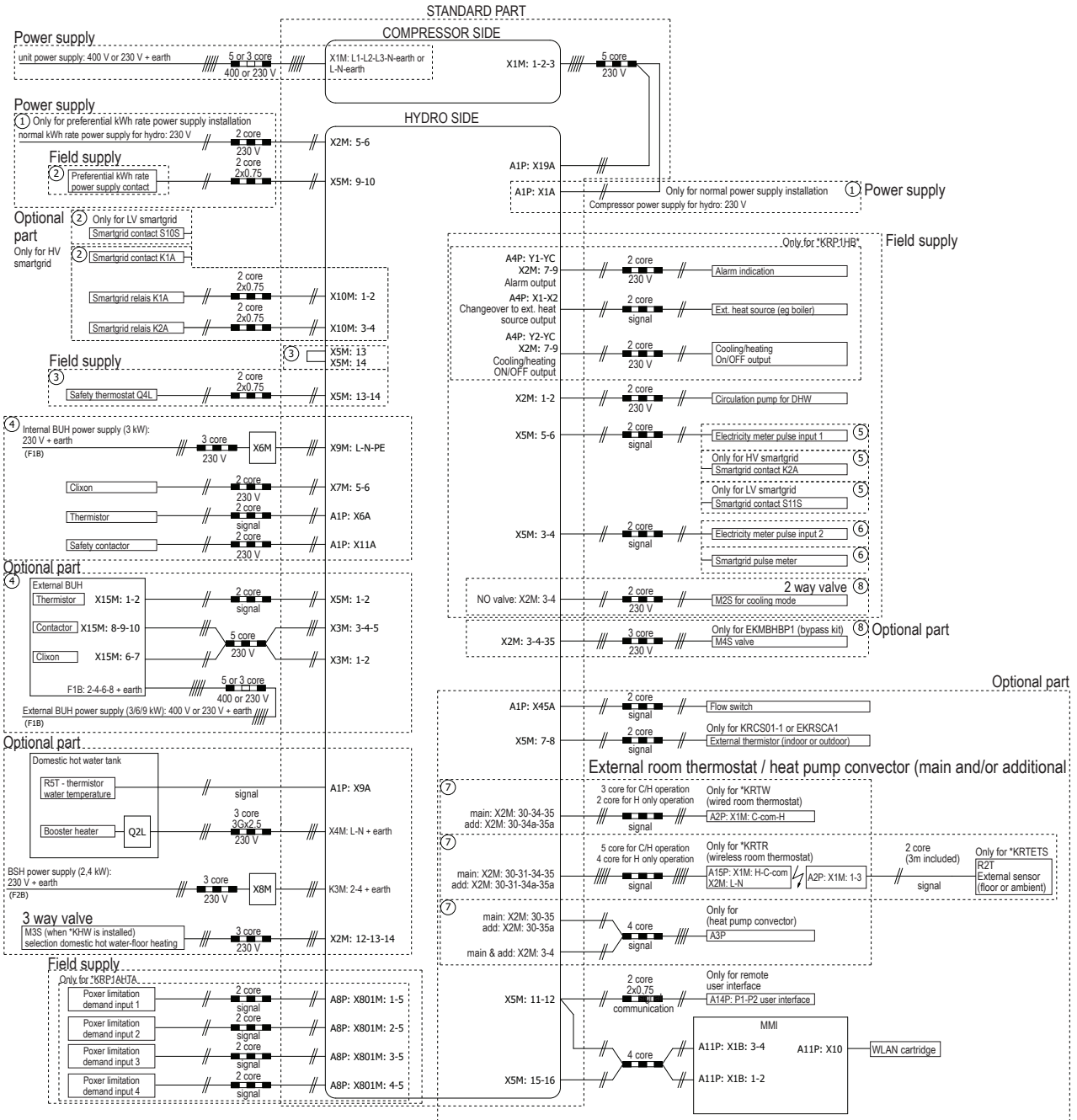
10

Electrical connection diagram Daikin Monobloc/Minichiller GQI TBM

NOTE

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

For more details please check unit wiring



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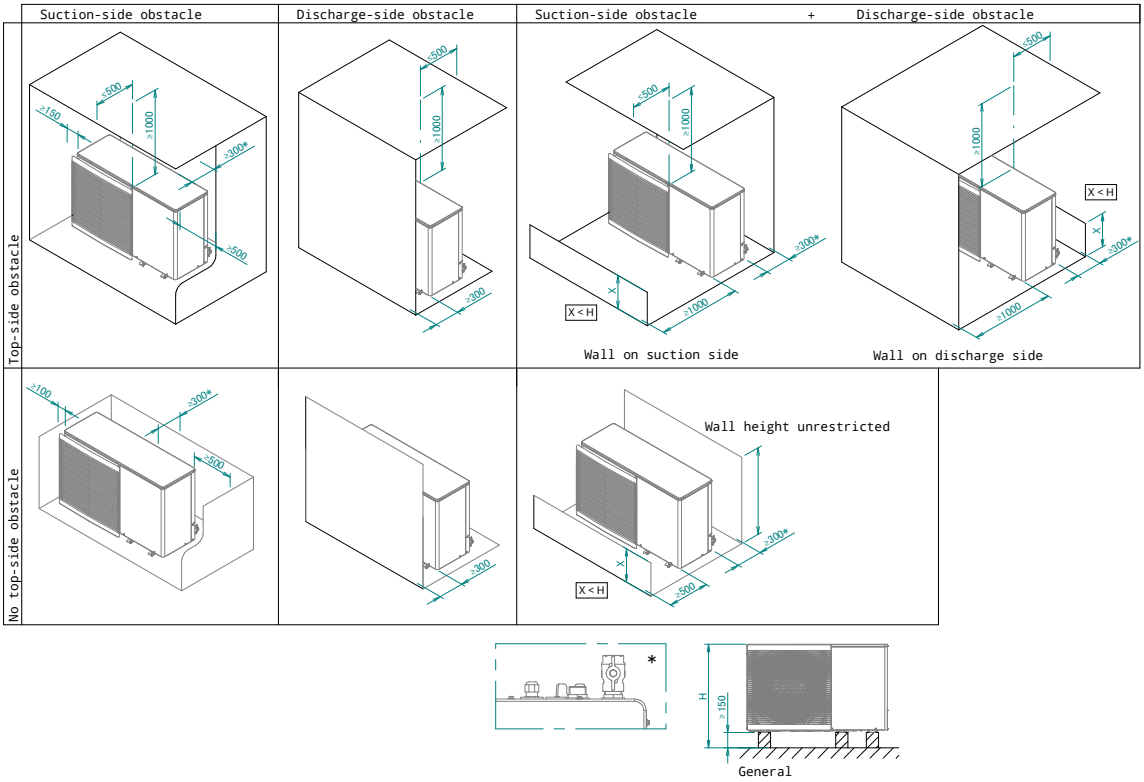
11 Installation

11 - 1 Installation Method

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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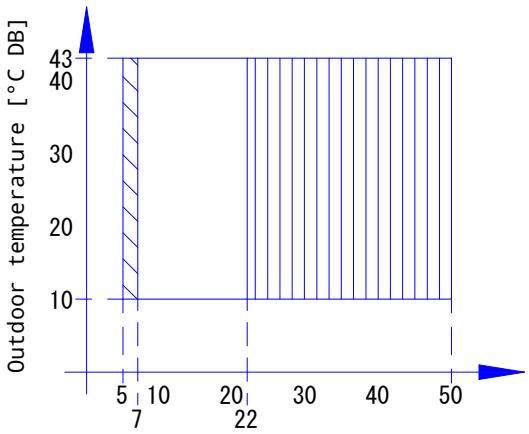
12 Operation range

12 - 1 Operation Range

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



Legend

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

Pull-down area

Notes

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

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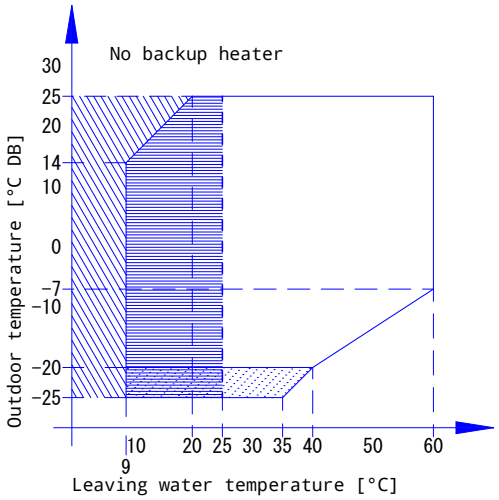
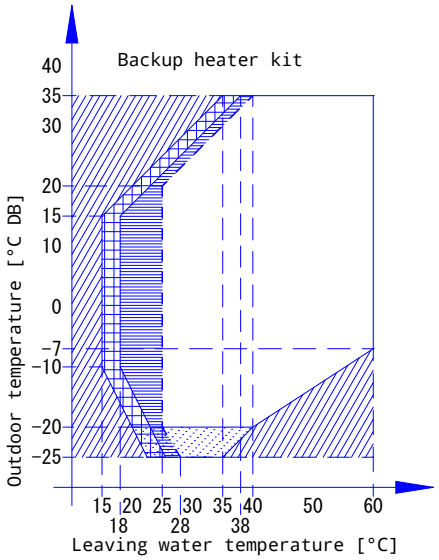
EWYA-DW1P(-H-) / EWYA-DV3P(-H-)





Legend

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

Backup heater only operation
No outdoor unit operation

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.

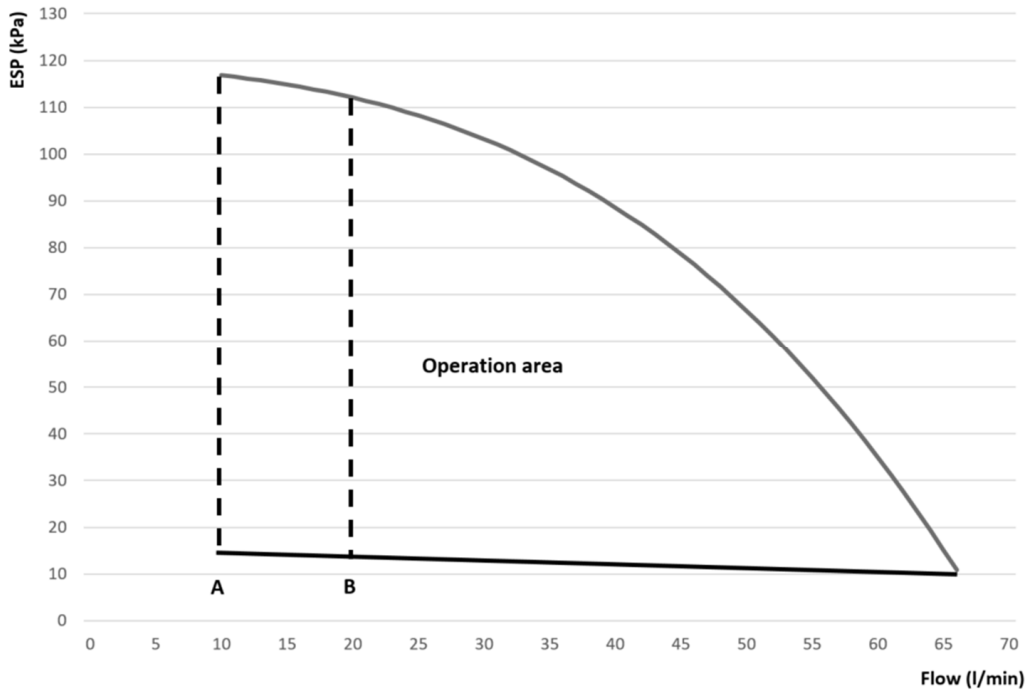
2. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

3D130724

13 Hydraulic performance

13 - 1 Static Pressure Drop Unit

EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)



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

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

Notes

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

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

   See dashed lines

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

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

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

4D129632

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