



Daikin Altherma low temperature split Technical Data EAVH-UD6V



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EAVH-UD6V

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1 Features

1 - 1 EAVH-UD6V

- › A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- › Inclusion of all hydraulic components means no third party components are required
- › PCB board and hydraulic components are located in the front for easy access
- › Small installation footprint of 600x600mm
- › Energy efficient heating only system based on air to water heat pump technology

1



Online
controller

2 Specifications

1 - 1 EAVH-UD6V

Technical Specifications					EAVH16SU18D6V	EAVH16SU23D6V
Heater capacity	Step 1			kW	2	
	Step 2			kW	2 or 4	
Power input	Nom.			kW	0.21	
Casing	Material				Precoated sheet metal	
Dimensions	Unit	Height		mm	1,650	1,850
		Width		mm	595	
		Depth		mm	625	
	Packed unit	Height		mm	1,820	2,020
		Width		mm	720	
		Depth		mm	740	
Weight	Unit			kg	109	118
	Packed unit			kg	126	135
Packing	Material				Wood / Carton / PE wrapping foil / Metal	
	Weight			kg	16	
Pump	Nr of speeds				PWM	
	Power input			W	179	
Water side Heat exchanger	Water flow rate	Min.		l/min	20.0 (1)	
Expansion vessel	Volume			l	10	
	Max. water pressure			bar	3	
	Pre pressure			bar	1	
Tank	Name				Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
	Water volume			l	180	230
	Material				Stainless steel (EN 1.4521)	
	Maximum water temperature			°C	70.0	
	Maximum water pressure			bar	10	
	Insulation Material				Polyurethane foam	
	Heat loss			kWh/24h	1.4 (2)	1.8 (2)
	Corrosion protection				Pickling	
	Energy efficiency class				B	C
	Standing heat loss			W	56	73
	Storage volume			l	180	220
General	Supplier/ Manufacturer details	Name or trademark			Daikin Europe N.V.	
		Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
3-way valve	Coefficient of flow (kV)	Space heating		m³/h	8	
		Domestic hot water tank		m³/h	10	
Water circuit	Piping connections diameter			inch	G 1" (female)	
	Piping material				Cu	
	Internal piping diameter			inch	1-1/4"	
	Piping			inch	1"	
	Safety valve			bar	3	
	Manometer				Digital	
	Drain valve / fill valve				No	
	Shut off valve				Yes	
	flowswitch				Yes	
	Air purge valve				Yes	
Water circuit	Total water volume			l	2.5 (3)	
	Minimum water volume in the system for cooling			l	20 (4)	
	Minimum water volume in the system for heating			l	20 (4)	
Water circuit - Domestic hot water side	Piping material				Stainless steel	
	Piping connections	Cold water in / Hot water out		inch	G 3/4" FEMALE	
		Recirculation connection		inch	G 3/4" FEMALE	
Sound power level	Nom.			dBA	44.0 (5)	
Sound pressure level	Nom.			dBA	30.0 (6)	
Operation range	Heating	Ambient	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
		Water side	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
	Indoor installation	Ambient	Min.	°CDB	5	
			Max.	°CDB	35 (8)	
		Cooling	Min.	°CDB	0 (7)	
			Max.	°CDB	0 (7)	
	Domestic hot water	Water side	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
			Max.	°C	0 (7)	
		Domestic hot water	Min.	°C	0 (7)	
			Max.	°C	0 (7)	
			Max.	°C	0 (7)	
Safety devices	Item	01			Temperature and pressure relief valve: 90-95°C	

2 Specifications

1 - 1 EAVH-UD6V

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Electrical Specifications				EAVH16SU18D6V	EAVH16SU23D6V
Power supply	Name	See note 10			
	Voltage	Min.	%	10	
	range	Max.	%	10	
	IP class	IP		IP X0B	
Electric heater	Power supply	Name		6V3	
		Phase		1~ / 3~	
		Frequency	Hz	50	
		Voltage	V	230	
	Current	Maximum running current	A	26.0	
		Zmax	List	Ω	0.22
		Minimum Ssc value		Equipment complying with EN/IEC 61000-3-12	
		Recommended fuses	A	20.000 (9)	
	Wiring connections	Communication cable	Quantity	3	
		Remark		2.5 mm ²	
		Electric meter	Quantity	2	
		Remark		Minimum 0.75 mm ² (5VDC pulse detection)	
		Preferential	Quantity	Power: 2	
		kWh rate power supply	Remark	Power 6.3A (Select diameter and type according to national and local regulations)	
		Domestic hot water pump	Quantity	2	
		Remark		Minimum 0.75 mm ² (2A inrush, 1A continuous)	
		For power supply back-up heater	Quantity	Prewired	
		For connection with R6T	Quantity	2	
		Remark		Minimum 0.75 mm ²	
		For connection with A3P	Quantity	Depends on thermostat type, cf. installation manual	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
		For connection with M2S	Quantity	2	
		Remark		Voltage: 230V / Max. current: 100mA / Min. 0.75mm ²	
		For connection with optional FWXV* (demand	Quantity	4	
		Remark		100 mA, minimum 0.75 mm ²	

(1)Operation area is extended to lower flow rates only in case the unit operates with heat pump only. (Not in startup, no BUH operation, no defrost operation). |

(2)Based on a dT of 45 K |

(3)Including piping + back-up heater; excluding expansion vessel |

(4)Excluding the water in the unit. This minimum water volume is sufficient for most applications. During critical processes extra water may be required. |

(5)Measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. DB/WB 7°C/6°. |

(6)Value measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. The sound pressure level mentioned is measured with a pressure drop of 10 kPa in the heating system at an operating condition of leaving water 47-55°C in a room with an ambient of 20°C. |

(7)Refer to operation range of the unit. |

(8)Depends on operation mode, refer to installation manual. |

(9)4 pole 20 A curve 400V tripping class C (refer to wiring diagram) |

(10)Above mentioned power supply of the hydrobox is for the backup heater only. The switch box and the pump of the hydrobox are supplied via the outdoor unit. The optional domestic hot water tank has a separate power supply.

3 Electrical data

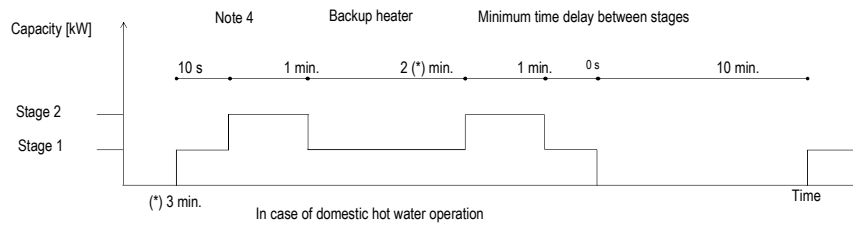
3 - 1 Electrical Data

EAVH-UD6V

Electrical specifications

Backup heater	Type			6V						9W					
				2 - 4	2 - 6	4 - 6	2-4 (in case of emergency: 2-6)			3 - 6	3 - 9	3 - 6 (in case of emergency: 3 - 9)			
	Capacity setting			2	2	2	2	2	6	1	2	2	2	2	
	Capacity stage			2	2	2	2	2	6	3	3	3	3		
	Capacity stage 1			2	2	2	2	2	6	3	3	3	3		
	Capacity stage 2			4	6	4	4	6	-	6	9	6	9		
	Minimum time delay between stages			Note 4						Note 4					
	Power supply			1~						3~					
	(1)	Frequency		50						50					
		Voltage		230 +/-10%						400 +/-10%					
Current	Nominal running current		A	17,4	26,1	26,1	17,4	26,1	15	8,7	13	8,7	13		
			Ω							-					
	Zmax (backup heater)(2)		Complex	-						-					
	Minimum Ssc value		kVA	(3)						-					
Notes	(1)	The above-mentioned power supply of the hydrobox is for the backup heater only. Booster heater power supply													
	(2)	In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax.													
	(3)	The equipment complies with EN/IEC 61000-3-12.													
	EN/IEC 61000-3-11	European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.													
	EN/IEC 61000-3-12	European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.													
	Zsys	System impedance													

Notes	(1)	The above-mentioned power supply of the hydrobox is for the backup heater only.
	(2)	Booster heater power supply In accordance with EN/IEC 61000-3-11, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax.
	(3)	The equipment complies with EN/IEC 61000-3-12.
	EN/IEC 61000-3-11	European/International Technical Standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤ 75 A.
	EN/IEC 61000-3-12	European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase.
Zsys		System impedance



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Options

Options

EVAH-UD6V

Outdoor combination table for -EAV(H/X/Z)16S(U)(18/23)DA-

		EPGA11DAV3	EPGA14DAV3	EPGA16DAV3
EAVH16S(18/23)DA*	Heating only indoor unit	o	o	o
EAVX16S(18/23)DA*	Reversible indoor unit	o	o	o
EAVZ16S(18/23)DA*	(Integrated Bizone)	o	o	o
EAVH16SU(18/23)DA*	Heating only indoor unit for the UK	o	o	o

Kit availability for indoor units

Reference	Description	EAV*16S*DA*					
		18 - 6V	18 - 9W	23 - 6V	23 - 9W		
EAVH*	Heating only indoor unit	18 - 6V	18 - 9W	23 - 6V	23 - 9W		
EAVX*	Reversible indoor unit	18 - 6V	18 - 9W	23 - 6V	23 - 9W		
EAVZ*	(Integrated Bizone)	18 - 6V	18 - 9W	23 - 6V	23 - 9W		
EAVH16SU*	Heating only indoor unit for the UK	18 - 6V	18 - 9W	23 - 6V	23 - 9W	18 - 6V	23 - 6V
EKRP1HBAA	Digital I/O PCB	*(1) (2)	o	o	o	o	o
EKRP1AHITA	Demand PCB	*(3)	o	o	o	o	o
BRC1H9DA	Simplified user interface		o	o	o	o	o
EKPCCA84	PC cable	*(4)	o	o	o	o	o
EKCS01-1	Remote indoor sensor	*(5)	o	o	o	o	o
EKSCA1	Remote sensor for outdoor	*(5)	o	o	o	o	o
BRP069A61	LAN adapter for smartphone control		o	o	o	o	o
BRP069A62	LAN adapter for smartphone control		o	o	o	o	o
EKCCB-W	Universal centralised user interface		o	o	o	o	o
EKHVCONV2	Conversion kit: heating only to reversible.		o	o	o	o	o
EKHUWG30	G3 kit					o (9)	o (9)
FWXV15AVEB	Heat pump convactor	*(6)	o	o	o	o	o
FWXV2DAVEB	Heat pump convactor	*(6)	o	o	o	o	o
EKXKPC	Heat pump convactor valve kit		o	o	o	o	o
EKRTWA	Wired room thermostat		o	o	o	o	o
EKRT1	Wireless room thermostat		o	o	o	o	o
EKRT1S	External sensor room thermostat	*(7)	o	o	o	o	o

Kit availability for outdoor units

		EPGA11DAV3	EPGA14DAV3	EPGA16DAV3
EKBP1H40L7	Bottom plate heater	o	o	o

Factory-mounted equipment for -EAV(H/X/Z)16S*DA*.

Description	EAV(H/X/Z)16S*DA*			
Heating only model -EAVH*	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
Reversible model -EAVX*	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
(Integrated Bizone)	18 - 6V (8)	18 - 9W (8)	23 - 6V (8)	23 - 9W (8)
Backup heater -2.4-6kW 1N~230 V-	o	-	o	-
Backup heater -2.4-6kW 3~230 V-	o	-	o	-
Backup heater -3.6-9kW 3N~400 V-	-	o	-	o
Domestic hot water tank -180L	o	o	-	-
Domestic hot water tank -230L	-	-	o	o

Reference	Description		
	Only applicable for -EAVH16S(18/23)* & EAVX16S(18/23)* models	EAVH*	EAVX*
BZKA7V3	Bizone kit	o	o

Notes

- PCB that provides additional output connections: -
 - Control external heat source (bivalent operation).
 - Output remote ON/OFF signal space heating/cooling
 - Remote alarm output
- Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
- PCB to receive up to -4 digital inputs for power limitation
- Data cable for connection with PC.
- Only 1 remote sensor can be connected: indoor OR outdoor sensor.
- The valve kit is mandatory if a heat pump convactor is installed on a reversible model (not mandatory for heating only models).
- EKRT1S- can only be used in combination with -EKRT1-
- The backup heater capacity depends on a user interface setting.
- This kit is mandatory for the UK models.

Remark

Other combinations than mentioned in this combination table are prohibited.

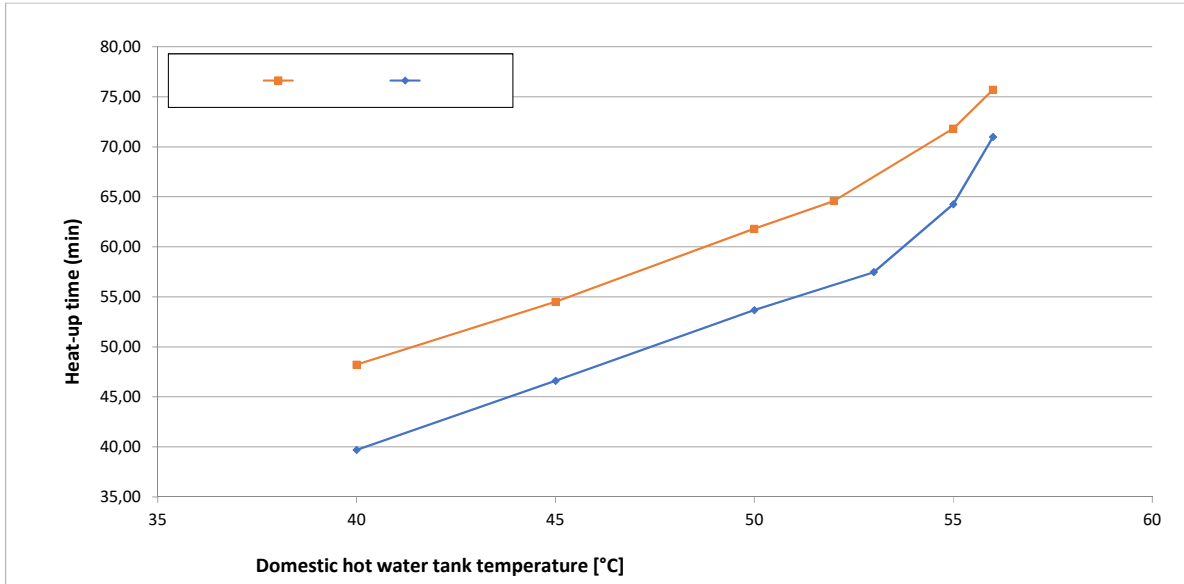
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5 Capacity tables

5 - 1 Domestic Hot Water performance

EAVH-UD6V

Heat-up times



Notes

1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature.

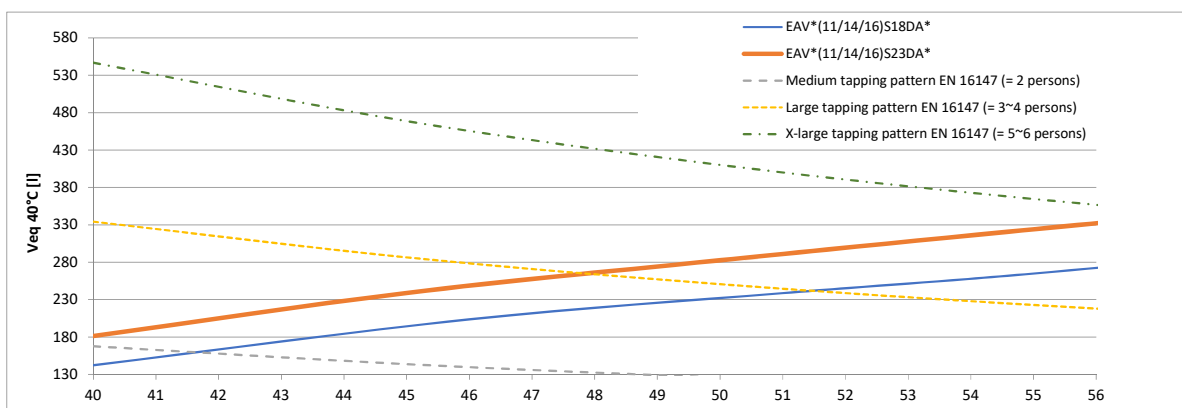
See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

Model name	Heat-up time domestic hot water tank until 45°C
EAV*(11/14/16)S18DA*	~46 min.
EAV*(11/14/16)S23DA*	~55 min.

Selection guide for the domestic hot water tank volume

(1)

Veq 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.



If a higher daily Veq 40°C is required, then additional heat-up cycles are required within 24 hours.

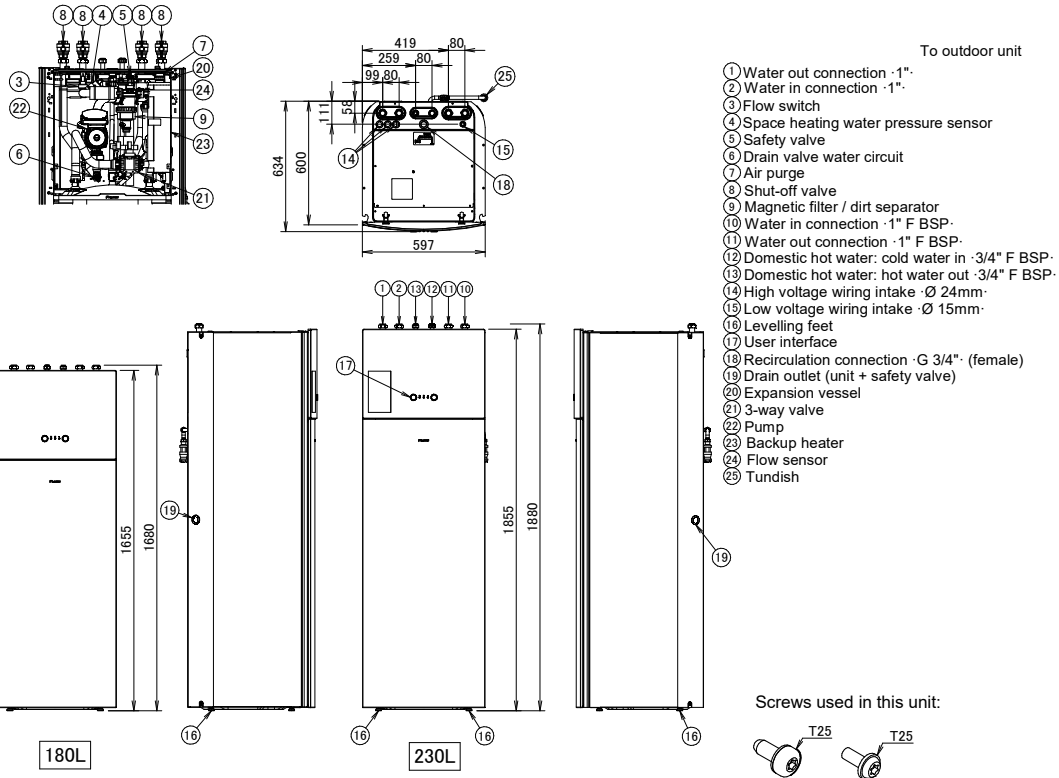
See the operation manual for more information.

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6 Dimensional drawings

6 - 1 Dimensional Drawings

EAVH-UD6V

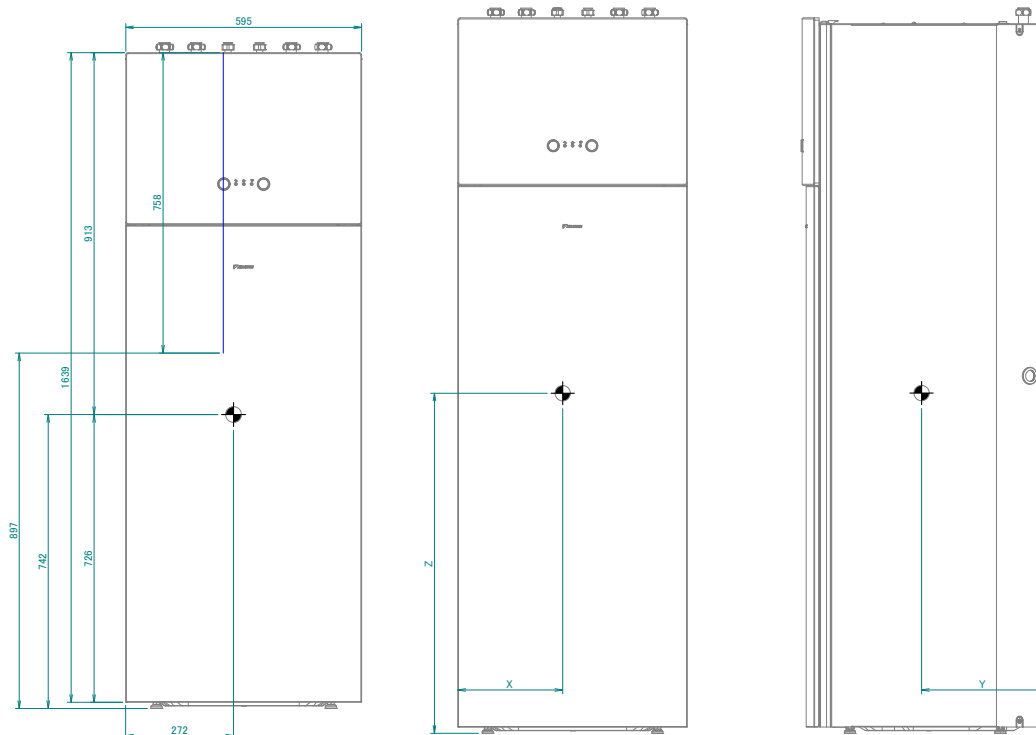


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7 Centre of gravity

7 - 1 Centre of Gravity

EAVH-UD6V



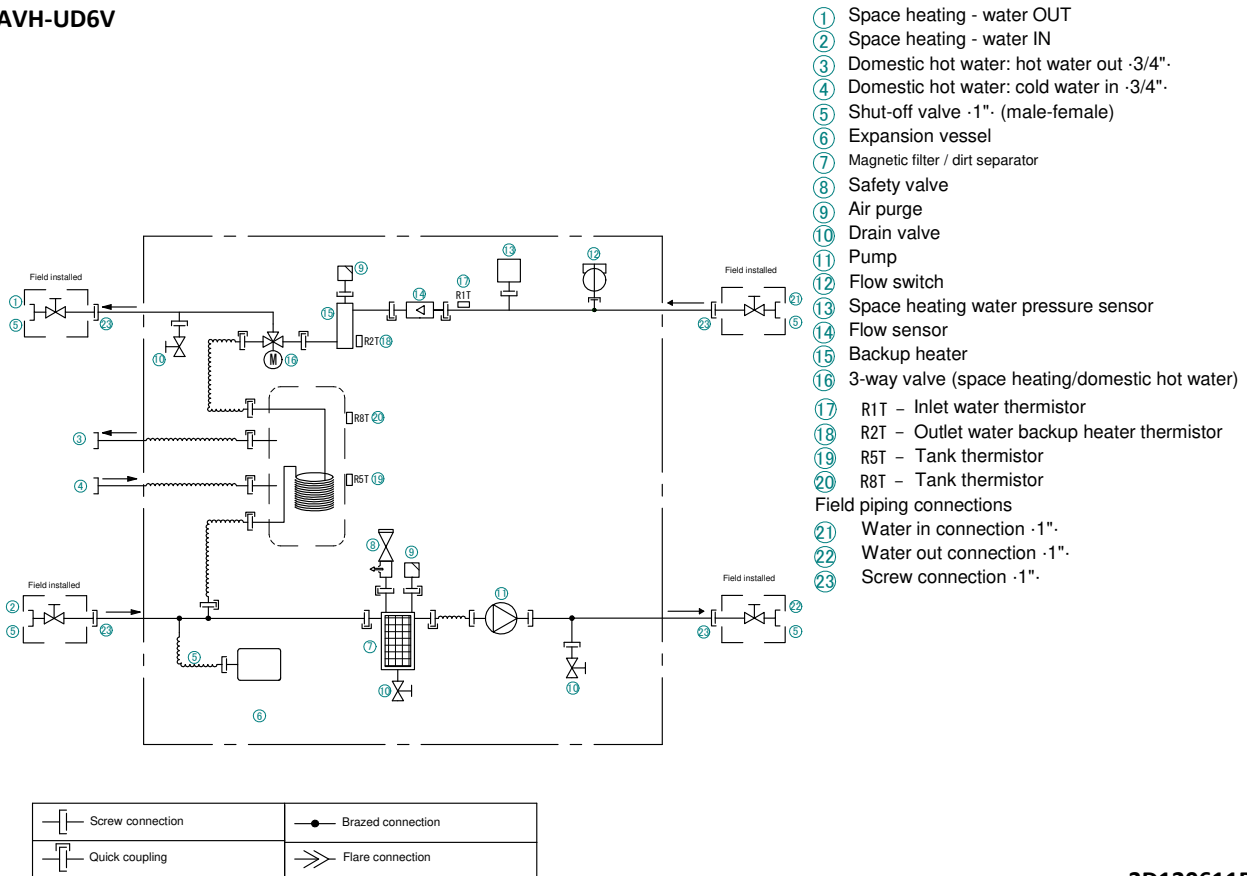
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8 Piping diagrams

8 - 1 Piping Diagrams

8

EAVH-UD6V



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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

EAVH-UD6V

NOTES to go through before starting the unit

- X1M : Main terminal
X2M : Field wiring terminal for AC
X5M : Field wiring terminal for DC
X6M : BUH Power supply terminal

- : Earth wiring
- - - : Field supply
① : Several wiring possibilities

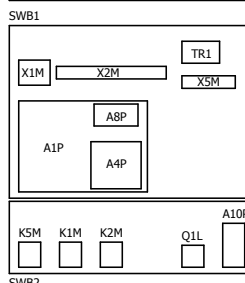
- Option : Not mounted in switch box
Wiring depending on model : PCB

Note 1 : Connection point of the power supply for the BUH should be foreseen outside the unit.

- Backup heater power supply
☐ 6T1 (3~, 230V, 6kW)
☐ 6V (1N~, 230V, 6kW)
☐ 6WN/9WN (3N~, 400V, 6/9kW)

- User installed options:
☐ LAN adapter
☐ Remote user interface
☐ Ext. indoor thermistor
☐ Ext. outdoor thermistor
☐ Digital I/O PCB
☐ Demand PCB
☐ Bottom plate heater
Main LWT:
☐ On/OFF thermostat (wired)
☐ On/OFF thermostat (wireless)
☐ Ext. thermistor
☐ Heat pump convactor
Add LWT:
☐ On/OFF thermostat (wired)
☐ On/OFF thermostat (wireless)
☐ Ext. thermistor
☐ Heat pump convactor

POSITION IN SWITCH BOX



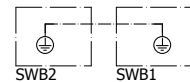
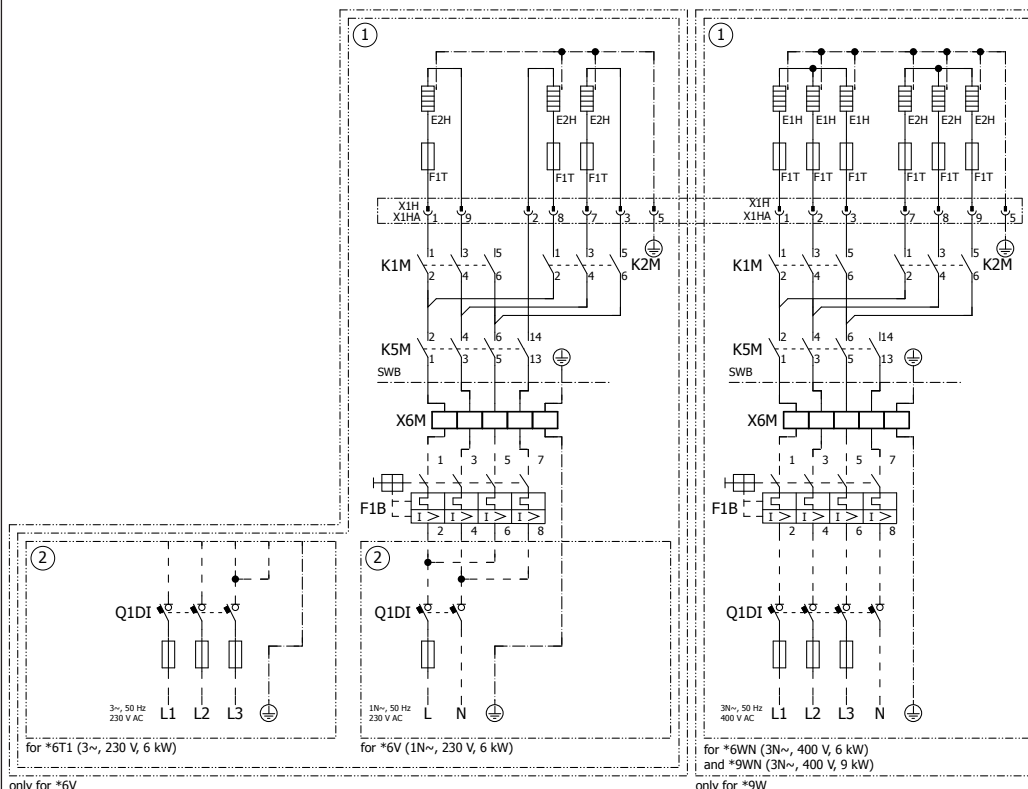
LEGEND

Translation can be found in the installation manual.
* : optional
: field supply

Part n°	Description	M2S	#
A1P	main PCB	M3S	2 way valve for cooling mode
A2P	* On/OFF thermostat (PC=power circuit)	M3S	3 way valve for floorheating /domestic hot water
A3P	* heat pump convactor	P1M	MMI display
A4P	* digital I/O PCB	PC (A15P)	* power circuit
A8P	* demand PCB	PHC1 (A4P)	* optocoupler input circuit
A9P	* status indicator	Q1L	thermal protector backup heater
A10P	MMI PSU PCB	Q4L	# safety thermostat
A11P	MMI main PCB	Q*DI	# earth leakage circuit breaker
A12P	MMI display PCB	R1H (A2P)	* humidity sensor
A13P	* LAN adapter	R1T (A1P)	inlet water thermistor
A14P	* user interface PCB	R1T (A2P)	* ambient sensor On/OFF thermostat
A15P	* receiver PCB (wireless On/OFF thermostat)	R1T (A14P)	* ambient sensor user interface
B1L	flow sensor	R2T (A1P)	outlet backup heater thermistor
B1PW	water pressure sensor	R2T (A2P)	* external sensor (floor or ambient)
CN* (A4P)	* connector	R5T, R8T	domestic hot water thermistor
DS1 (A8P)	* dipswitch	R6T	* external indoor or outdoor ambient thermistor
E1H	backup heater element (1 kW)	S1L	flow switch
E2H	backup heater element (2 kW)	S1S	# preferential kWh rate PS contact
E*P (A9P)	indication LED	S2S	# electrical meter pulse input 1
F1B	# overcurrent fuse backup heater	S3S	# electrical meter pulse input 2
F1T	thermal fuse backup heater	S6S-S9S	* digital power limitation inputs
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB	SS1 (A4P)	* selector switch
FU1 (A1P)	fuse T 5 A 250 V for PCB	SW1~2 (A12P)	turn buttons
FU2 (A10P)	fuse T 1.6 A 250 V for PCB	SW3~5 (A12P)	push button
K1M, K2M	contactor backup heater	TR1	power supply transformer
K5M	safety contactor BUH	X6M	# BUH power supply terminal strip
K*R (A1P-A4P)	relay on PCB	X*, X*A, J* X*H*, X*Y	connector
M1P	main supply pump	X*M	terminal strip
M2P	# domestic hot water pump		

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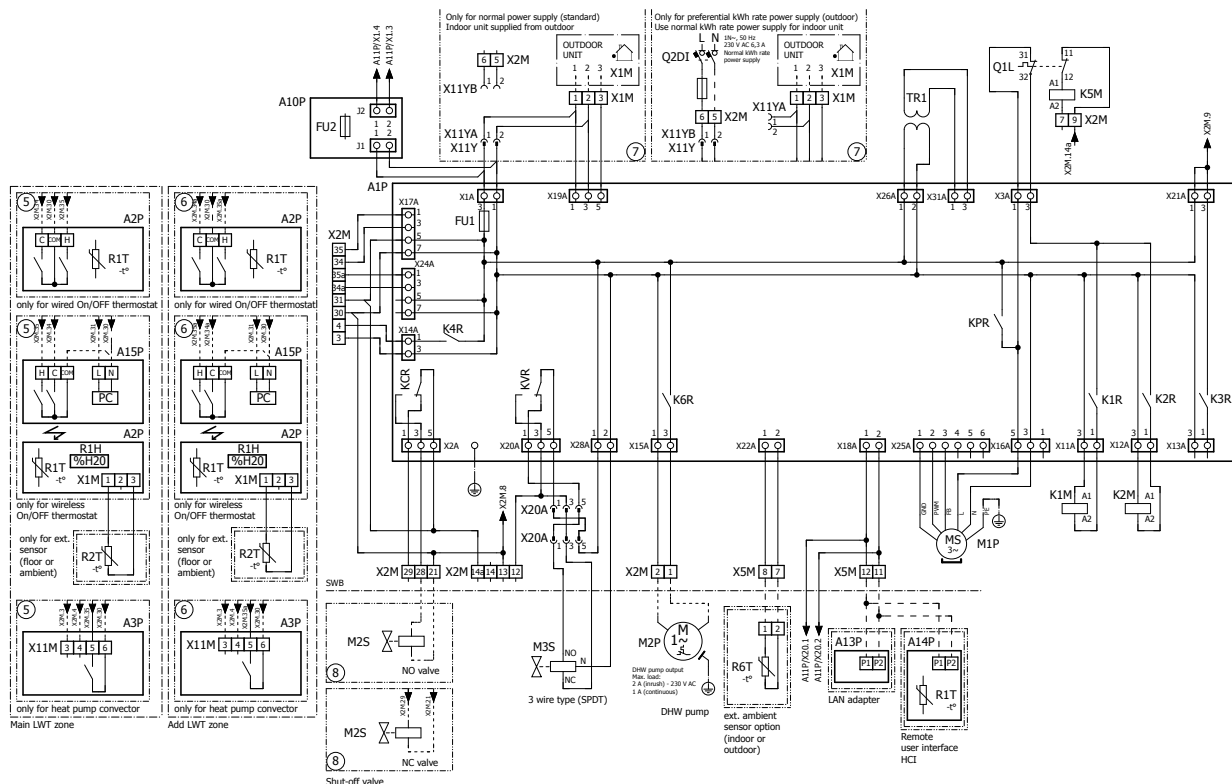
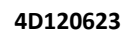
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9 - 1 Wiring Diagrams - Single Phase

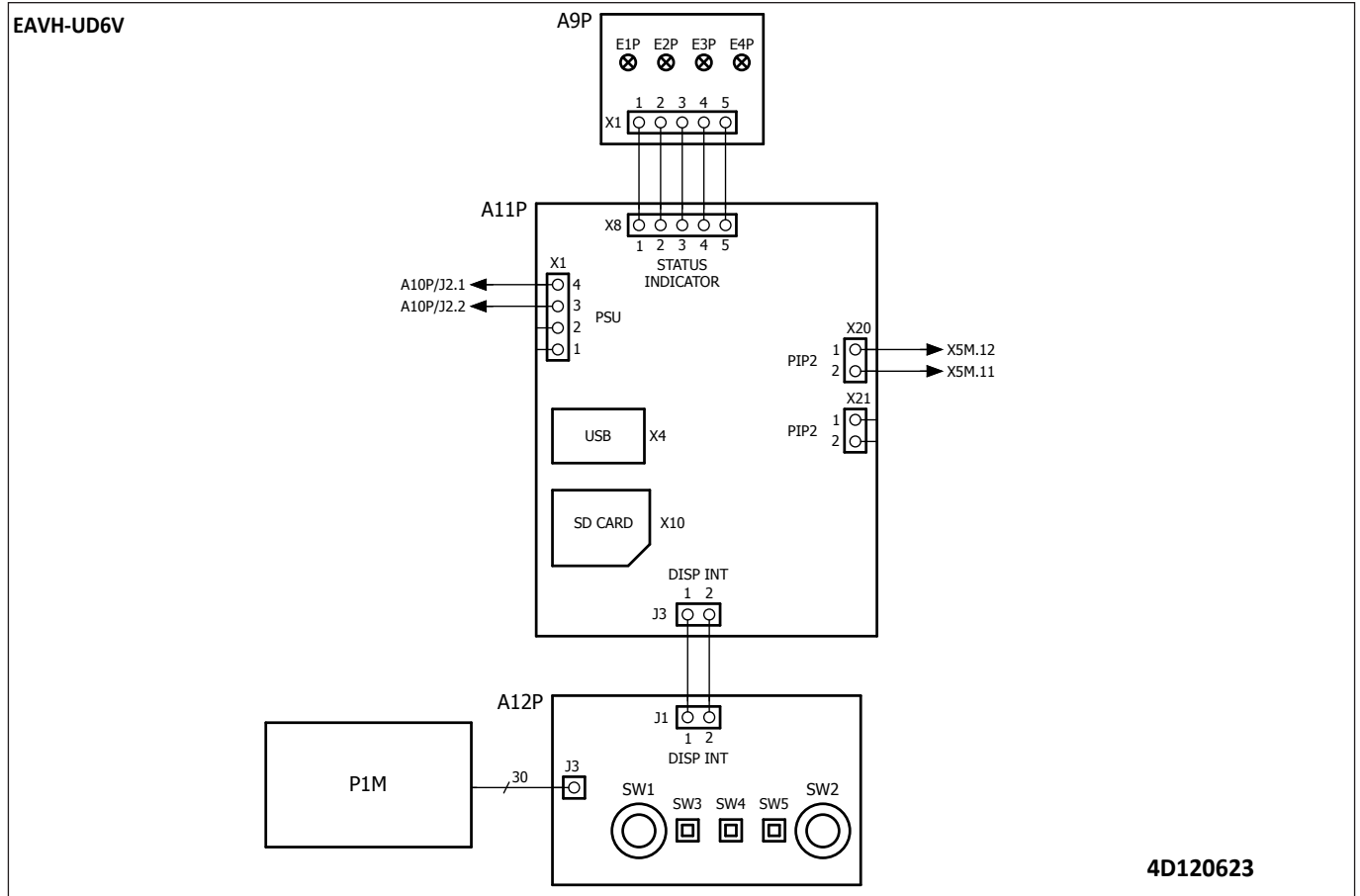
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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase



10 - 1 External Connection Diagrams

Electrical connection diagram Altherma Floorstanding Gas Injection

For more details
please check unit wiring

Power supply

① Only for normal power supply installation
Use power supply: 230 V ~ earth

② Only for preferential kWh rate power supply installation
Use preferential kWh rate power supply:
230 V ~ earth

③ Preferential kWh rate power supply for indoor unit: 230 V ~ earth

FIELD SUPPLY

④ External kWh rate power supply connection

⑤ External kWh rate power supply connection

FIELD SUPPLY

⑥ External kWh rate power supply connection

⑦ External kWh rate power supply connection

Backup heater power supply (50/70W): 400 V or 230 V ~ earth (FAS)

STANDARD PART

OUTDOOR UNIT

X1M: L-N-earth

X1M: 1-2-3

X4A + earth

OPTIONAL PART

Backup heater power supply

INDOOR UNIT

X1M: 1-2-3

X2M: 5-6

X3M: 9-10

X3M: L1-L3-L1 + earth
or L1-N + earth
or L1-L2-L1-N + earth

FIELD SUPPLY

Only for *N03P1AB*

AMP: Y1-YC
X2M: 7-9
Alarm output

2 core
230 V
signal

Alarm indicator

AMP: X1-X2
X2M: 7-9
Changeover to ext. heat source output

2 core
230 V
signal

Ext. heat source (gas boiler)

AMP: Y2-YC
X2M: 7-9
Cooling/heating
On/Off output

2 core
230 V
signal

Cooling/heating
On/Off output

X2M: 1-2

2 core
230 V
signal

Circulation pump for DRW

NO valve: X2M: 21-28
NC valve: X2M: 21-29

2 core
230 V
signal

2WAY VALVE
HCU for cooling mode

X3M: 5-6

2 core
230 V
signal

Electricity meter pulse input 1

X3M: 3-4

2 core
230 V
signal

Electricity meter pulse input 2

Only for *N03CS-1 or *N03CSAL*

X3M: 7-8

2 core
230 V
signal

External thermostat (indoor or outdoor)

EXTERNAL ROOM THERMOSTAT / HEAT PUMP CONNECTOR
(main and/or additional zone)

OPTIONAL PART

① main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

② main: X2M: 30-31-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

③ main: X2M: 30-35
add: X3M: 30-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

④ main + add: X2M: 3-4

4 core
230 V
signal

Only for *N03P1AB*

X3M: 11-12

1 core
230 V
communication

Only for HCU

2 core
230 V
communication

⑤ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑥ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑦ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑧ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑨ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑩ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑪ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑫ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑬ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑭ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑮ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑯ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑰ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑱ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑲ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

⑳ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉑ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉒ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉓ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉔ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉕ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉖ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉗ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉘ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉙ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉚ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉛ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉜ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉝ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉞ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

㉟ main: X2M: 30-34-35
add: X3M: 30-34a-35a

1 core for C/H operation
1 core for earth operation
2 core
230 V
signal

Only for *N03P1AB*

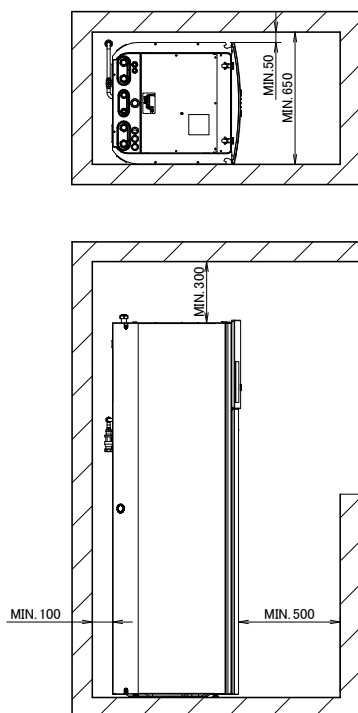
㊱ main: X2M:

4D120625

11 Installation

11 - 1 Installation Method

EACH-UD6V



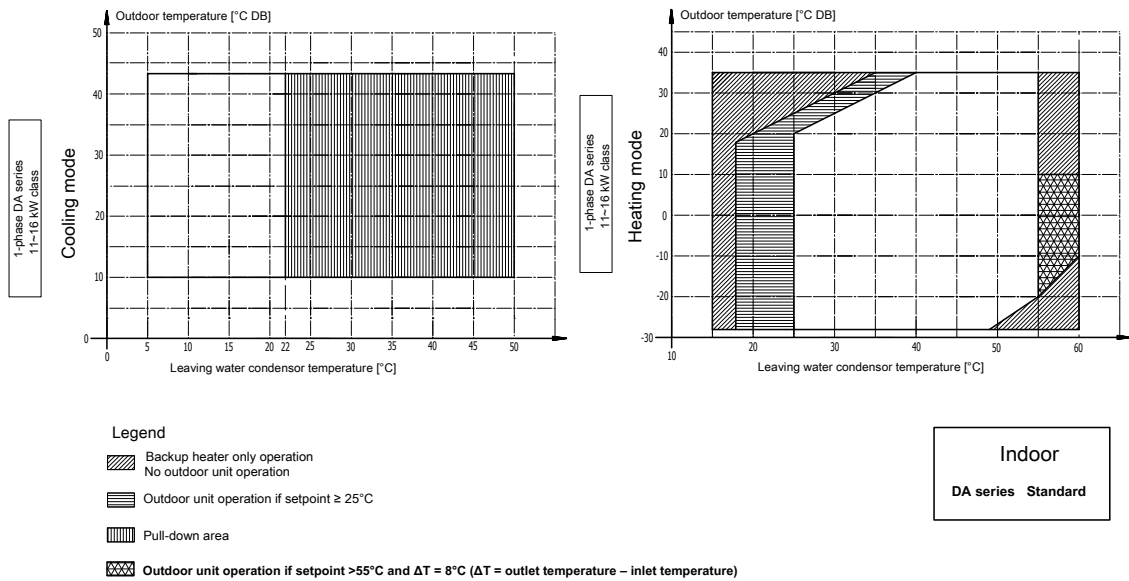
3D128402

12 Operation range

12 - 1 Operation Range

EAVH-UD6V

12



Remark

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

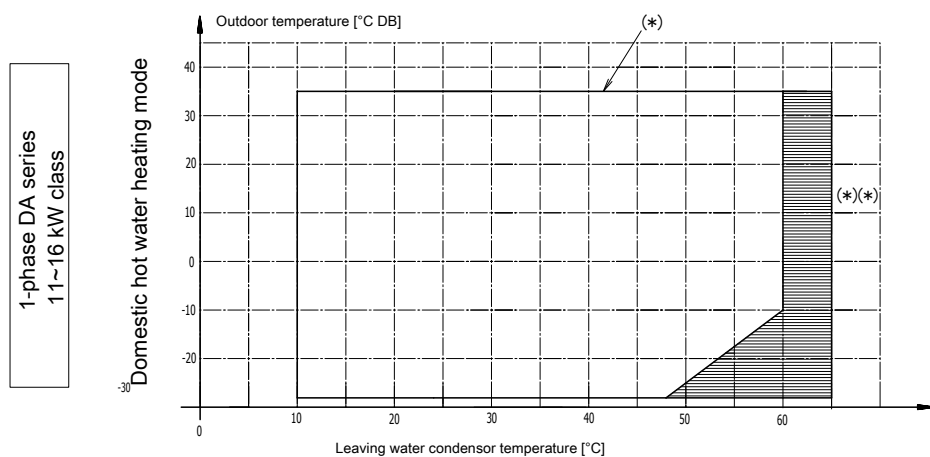
Warning

In areas with low ambient temperatures and high humidity, or in areas with heavy snowfall, remove the suction grille to ensure proper operation.

Non-exhaustive list of areas: Austria, Czech Republic, Denmark, Estonia, Finland, Germany, Hungary, Latvia, Lithuania, Norway, Poland, Romania, Serbia, Slovakia, Sweden, ...

3D121180A

EAVH-UD6V



Legend

Backup heater only operation (or booster heater, if part of the system) to reach a tank temperature of 60°C.

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

In heat pump only operation, the heat pump can create a maximum domestic hot water temperature up to 56°C (depending on outdoor ambient condition).

(*)(*) Tank temperature up to 75°C only possible with booster heater only operation (if available in the system).

Remark

In restricted power supply mode (EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.

Indoor

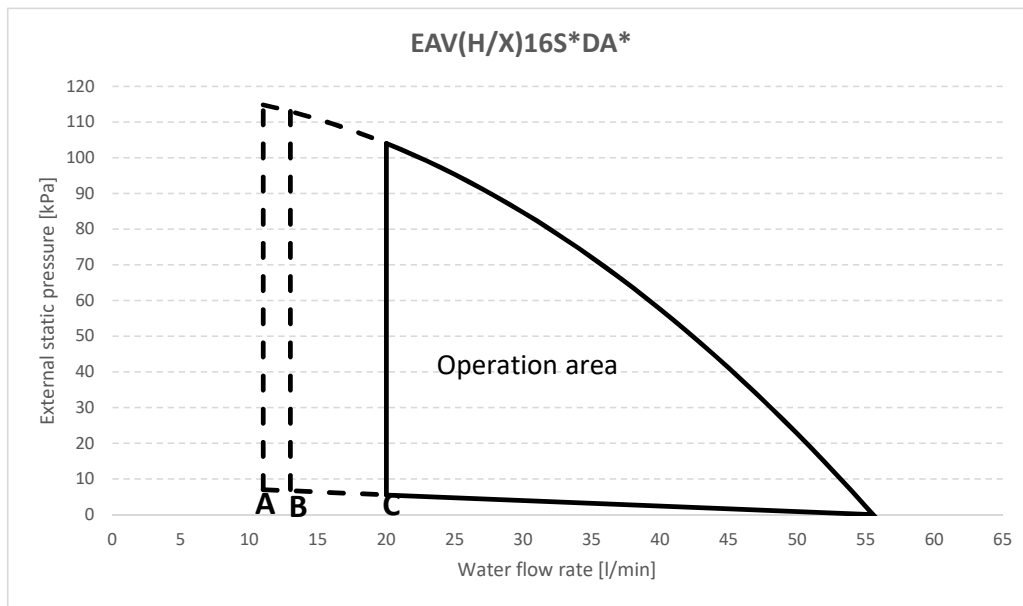
DA series Standard

3D121181

13 Hydraulic performance

13 - 1 Static Pressure Drop Unit

EAVH-UD6V



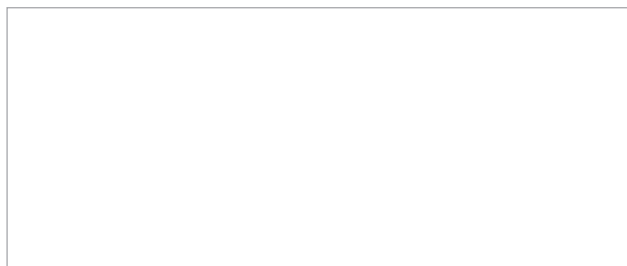
- A** Minimum water flow rate during normal operation
B Minimum water flow rate during backup heater operation
C Minimum water flow rate during defrost operation

Operation area is extended to lower flow rates only in case the unit operates with heat pump only.
 (Not in startup, no BUH operation, no defrost operation.)
 See dashed lines

Notes

- 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.
- Water quality must be according to EU directive 98/83 EC.

4D120998



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04/2020

