Heating
Technical Data

EHVZ-D6V

> EHVZ04S18DA6V
> EHVZ08S18DA6V
> EHVZ08S23DA6V

TABLE OF CONTENTS

EHVZ-D6V

1 Features

- 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
- Bi-zone allows temperature monitoring for 2 zones. Connect underfloor heating to radiators to optimise efficiency

Online controller

2 Specifications

2-1 Technical Specifications					EHVZ04S18D6V	EHVZ08S18D6V	EHVZ08S23D6V
Power input	Nom.			kW	0.14		
Casing	Colour				White + Black		
	Material				Resin / Sheet metal		
Dimensions	Unit	Height		mm	1,650		1,850
		Width		mm	595		
		Depth		mm	625		
	Packed unit	Height		mm	1,825		2,025
		Width		mm	720		
		Depth		mm	740		
Weight	Unit			kg	136		144
	Packed unit			kg	150		158
Packing	Material				Wood / Carton / PE wrapping foil		
	Weight			kg	14		
Tank	Name				Stainless steel domestic hot water tank 180 l		
	Water volume			l	180		230
	Material				Stainless steel (EN 1.4521)		
	Maximum water temperature			°C	60 (1)		
	Maximum water pressure			bar	10		
	Insulation	Material			Polyurethane foam		
		Heat loss		kWh/ 24h	1.2 (2)		1.3 (2)
	Corrosion protection				Pickling		
	Energy efficiency class				B		
	Standing heat loss			W	48		52
	Storage volume			l	181		220
3-way valve	Coefficient of flow (kV)	Space heating		m^3/h	8		
		Domestic hot water tank		m^3/h	10		
Expansion vessel	Volume			l	10		
	Max. water pressure			bar	3		
	Pre pressure			bar	1		
Operation range	Heating	Ambient	Min.	°C	5		
			Max.	°C	30		
		Water side	Min.	°C	15 (3)		
			Max.	°C	65		
	Domestic hot water	Ambient	Min.	°CDB	5		
			Max.	°CDB	35		
		Water side	Max.	°C	60 (4)		
Refrigerant side heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Plates	Quantity			42		
Water side Heat exchanger	Type				Plate heat exchanger		
	Quantity				1		
	Plates	Quantity			42		
	Water volume			l	0.95		
	Water flow rate	Min.		l/min	12.0 (5)		
Refrigerant circuit	Gas side diameter			mm	15.9		
	Liquid side diameter			mm	6.40		
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	42 (6)		
Sound pressure level	Nom.			dBA	28 (7)		

2 Specifications

2-1 Technical Specifications				EHVZ04S18D6V	EHVZ08S18D6V	EHVZ08S23D6V
Water circuit	Total water volume		l	4.5 (8)		
	Minimum water volume in the system for cooling		l	0 (9)		
	Minimum water volume in the system for heating		l	0 (9)		
Safety devices	Item	01		Thermal cut out		
PED	Category			Art4.3 / (10)		
	Most critical part	Name		Plate heat exchanger		
		Ps*V	Bar*l	38		
Heater capacity	Step 1		kW	2		
	Step 2		kW	2 or 4		
General	Supplier/ Manufacturer details	Name or trademark		Daikin Europe N.V.		
		Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
Pump Additional Zone	Nr of speeds			PWM		
	Power input		W	52		
	Type			Grundfos UPM 3		
Pump Main Zone	Nr of speeds			PWM		
	Power input		W	52		
	Type			Grundfos UPM 3		
Water Filter Additional Zone	Diameter perforations		mm	0.8		
	Material			Plastic / Stainless steel		
Water filter Main Zone	Diameter perforations		mm	1.0		
	Material			Copper - brass - stainless steel		
3-way valve mixing	Coefficient of flow (kV)	Bypass	m³/h	13		
		Main zone only	m³/h	8		
Water circuit - space heating side (additional zone)	Air purge valve			Yes		
	Drain valve / fill valve			No		
	Manometer			Yes		
	Piping connections diameter		inch	G 1" (FEMALE)		
	Safety valve		bar	3		
	Shut off valve			Yes		
Water circuit - space heating side (main zone)	Air purge valve			No		
	Manometer			Yes		
	Piping connections diameter		inch	G 1 (FEMALE)		
	Safety valve		bar	Yes		
	Shut off valve			Yes		

2-2 Electrical Specifications				EHVZ04S18D6V	EHVZ08S18D6V	EHVZ08S23D6V
Power supply	Name			(11)		
	Voltage range	Min.	%	10		
		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		
		Minimum Ssc value		Equipment complying with EN/IEC 61000-3-12		
	Recommended fuses		A	20.000 (1)		
Wiring connections- Communication cable	Quantity			3		
	Remark			2.5 mm²		
Wiring connections- Electric meter	Quantity			2		
	Remark			Minimum 0.75 mm² (5VDC pulse detection)		
Wiring connections- Preferential kWh rate power supply	Quantity			Power: 2		
	Remark			Power 6.3A (Select diameter and type according to national and local regulations)		
Wiring connections- Domestic hot water pump	Quantity			2		
	Remark			Minimum 0.75 mm² (2A inrush, 1A continuous)		

2 Specifications

2-2 Electrical Specifications		EHVZ04S18D6V	EHVZ08S18D6V	EHVZ08S23D6V
Wiring connections-For power supply back-up heater	Quantity	Prewired		
Wiring connections-For connection with R6T	Quantity	2		
	Remark	Minimum 0.75 mm²		
Wiring connections-For connection with A3P	Quantity	Depends on thermostat type, cf. installation manual		
	Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm²		
Wiring connections-For connection with M2S	Quantity	2		
	Remark	Voltage: 230V / Max. current: 100mA / Min. 0.75mm²		
Wiring connections-For connection with optional FWXV* (demand input and output)	Quantity	4		
	Remark	100 mA, minimum 0.75 mm²		

Notes

(1) 4 pole 20 A curve 400V tripping class C (refer to wiring diagram)

(2) Based on a dT of 45 K

(3) 15°C-25°C: BUH only, no heat pump operation = during commissioning

(4) For *RLQ* outdoor units \>55°C BUH only, no heatpump operation

(5) 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).

(6) DB/WB 7°C/6°C - LWC 35°C (DT=5°C)

(7) Sound values are measured in a semi-anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. Sound power level is an absolute value that a so

(8) Including piping + PHE + back-up heater; excluding expansion vessel

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

(10) PED unit category: Art3§3: excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

(11) 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.

Including piping + PHE; excluding expansion vessel

Lower if back-up heater is installed; In case of no back-up heater, then heat pump operation starts at 10°C

3 Electrical data

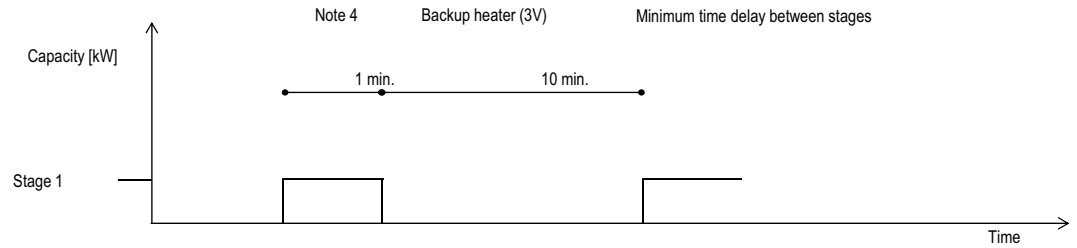
3 - 1 Electrical Data

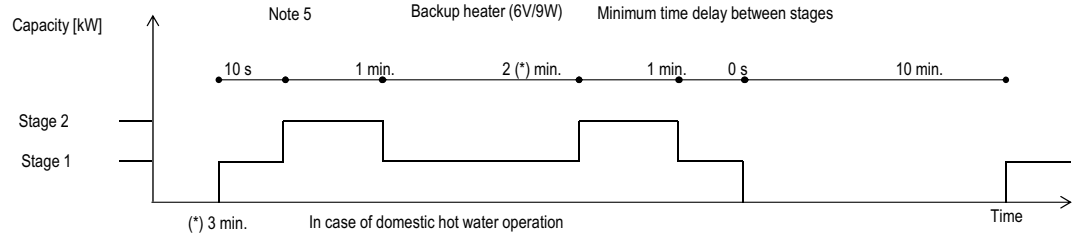
EHVH-D6V
EHVH-D9W
EHVX-D3V
EHVX-D6V
EHVX-D9W
EHVZ-D6V
EHVZ-D9W

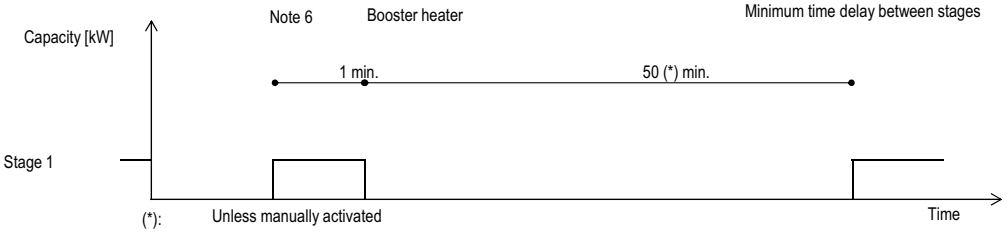
Electrical specifications
Not applicable for EHVH(04/08)DAV models.

					3V	6V						9W			
Backup heater	Type														
	Capacity setting			[kW]	3	2 - 4	2 - 6	4 - 6	2-4 (in case of emergency: 2-6)		6	3 - 6	3 - 9	in case of emergency:	
	Capacity stage				1	2	2	2	2	2	1	2	2	2	2
	Capacity stage 1			kW	3	2	2	2	2	2	6	3	3	3	3
	Capacity stage 2			kW	-	4	6	4	4	6	-	6	9	6	9
	Minimum time delay between stages				Note 4	Note 5						Note 5			
	Power supply	Phase			1~						3~	3~			
	(1)	Frequency		Hz	50							50			
		Voltage		V	230 +-10%							400 +-10%			
	Current	Nominal running current		A	13	17,4	26,1	26,1	17,4	26,1	15	8,7	13	8,7	13
		Zmax (backup heater) (2)		Ω	-							-			
				Complex	-							-			
		Minimum Ssc value		kVA	-		(3)			(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







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4 Combination table

4 - 1 Combination Table

EHVH-D6V
EHVH-D9W
EHVH-DV
EHVX-D3V
EHVX-D6V
EHVX-D9W
EHVZ-D6V
EHVZ-D9W

Factory-mounted equipment for ·EHV(H/X/Z)04S*DA*·

Description	EHV(H/X/Z)04S*DA*				
Heating only model ·EHVH*·		18 - 6V (9)	23 - V		23 - 6V (9)
Reversible model ·EHVX*·	18 - 3V	18 - 6V (9)		23 - 3V	23 - 6V (9)
(Integrated Bizone)		18 - 6V (9)			
Backup heater ·3kW 1N~230 V·	o	-	-	o	-
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·	-	-	-	-	-
Immersion heater ·2.4kW 1N~230 V·	-	-	o	-	-
Domestic hot water tank ·180L·	o	o	-	-	-
Domestic hot water tank ·230L·	-	-	o	o	o

Factory-mounted equipment for ·EHV(H/X/Z)08S*DA*·

Description	EHV(H/X/Z)08S*DA*				
Heating only model ·EHVH*·	18 - 6V (9)	18 - 9W (9)	23 - V	23 - 6V (9)	23 - 9W (9)
Reversible model ·EHVX*·	18 - 6V (9)	18 - 9W (9)		23 - 6V (9)	23 - 9W (9)
(Integrated Bizone)	18 - 6V (9)	18 - 9W (9)		23 - 6V (9)	23 - 9W (9)
Backup heater ·3kW 1N~230 V·	-	-	-	-	-
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
Immersion heater ·2.4kW 1N~230 V·	-	-	o	-	-
Domestic hot water tank ·180L·	o	o	-	-	-
Domestic hot water tank ·230L·	-	-	o	o	o

Outdoor combination table for ·EHV(H/X/Z)(04/08)S(18/23)DA·

		ERGA04DAV3	ERGA06DAV3	ERGA08DAV3	ERGA06DAV3A	ERGA08DAV3A
EHVH04S(18/23)DA*	Heating only indoor unit	o	---	---	---	---
EHVX04S(18/23)DA*	Reversible indoor unit	o	---	---	---	---
EHVZ04S(18/23)DA*	(Integrated Bizone)	o	---	---	---	---
EHVH08S(18/23)DA*	Heating only indoor unit	---	o	o	o	o
EHVX08S(18/23)DA*	Reversible indoor unit	---	o	o	o	o
EHVZ08S(18/23)DA*	(Integrated Bizone)	---	o	o	o	o

Kit availability

Reference	Description		EHV*(04/08)S*DA*						
EHVH*	Heating only indoor unit		---	18 - 6V	18 - 9W	23 - V	---	23 - 6V	23 - 9W
EHVX*	Reversible indoor unit		18 - 3V	18 - 6V	18 - 9W	---	23 - 3V	23 - 6V	23 - 9W
EHVZ*	(Integrated Bizone)		---	18 - 6V	18 - 9W	---	---	23 - 6V	23 - 9W
EKRP1HBAA	Digital I/O PCB	*(1) (2)	o	o	o	o	o	o	o
EKRP1AHTA	Demand PCB	*(3)	o	o	o	o	o	o	o
EKRUDAS	Simplified user interface		o	o	o	o	o	o	o
EKPCCAB3	PC cable	*(4)	o	o	o	o	o	o	o
KRCS01-1	Remote indoor sensor	*(5)	o	o	o	o	o	o	o
EKRSCA1	Remote sensor for outdoor	*(5)	o	o	o	o	o	o	o
BRP069A61	LAN adapter for smartphone control	*(6)	o	o	o	o	o	o	o
BRP069A62	LAN adapter for smartphone control	*(6)	o	o	o	o	o	o	o
EKFILL-CA	Fill kit		o	o	o	o	o	o	o
EKHVCONV	Conversion kit: heating only to reversible.		o	o	o	-	o	o	o
FWXV15AVEB	Heat pump convector	*(7)	o	o	o	o	o	o	o
FWXV20AVEB	Heat pump convector	*(7)	o	o	o	o	o	o	o
EKRTWA	Wired room thermostat		o	o	o	o	o	o	o
EKRTR1	Wireless room thermostat		o	o	o	o	o	o	o
EKRTETS	External sensor room thermostat	*(8)	o	o	o	o	o	o	o

Reference	Description		
	Only applicable for ·EHVH* & EHVX*· models	EHVH*	EHVX*
BZKA7V3	Bizone kit	o	o

Reference	Description	EHVH(04/08)S23DAV	
	He	04 - V	08 - V
EKLBUHCB6W1	Backup heater kit	o	o

Notes

(1) PCB that provides additional output connections: · ·
  (a) Control external heat source (bivalent operation).
  (b) Output remote ON/OFF signal space heating/cooling OR bottom plate heater ·*KBPHTH16* · control.
  (c) Remote alarm output
(2) Additional relays to allow bivalent control in combination with an external room thermostat are field-supplied.
(3) PCB to receive up to 4 digital inputs for power limitation, only for ·EHV(H/X/Z)(04/08)DA*·.
(4) Data cable for connection with PC.
(5) Only 1 remote sensor can be connected: indoor OR outdoor sensor.
(6) Installation box ·EKBRPA6·
(7) The valve kit is mandatory if a heat pump convector is installed on a reversible model (not mandatory for heating only models).
(8) ·EKRTETS· can only be used in combination with ·EKRTR1·
(9) The backup heater capacity depends on a user interface setting.
(10) The valve kit is mandatory if a heat pump convector is installed on a reversible model (not mandatory fc EKVKHPC

Remark
Other combinations than mentioned in this combination table are prohibited.

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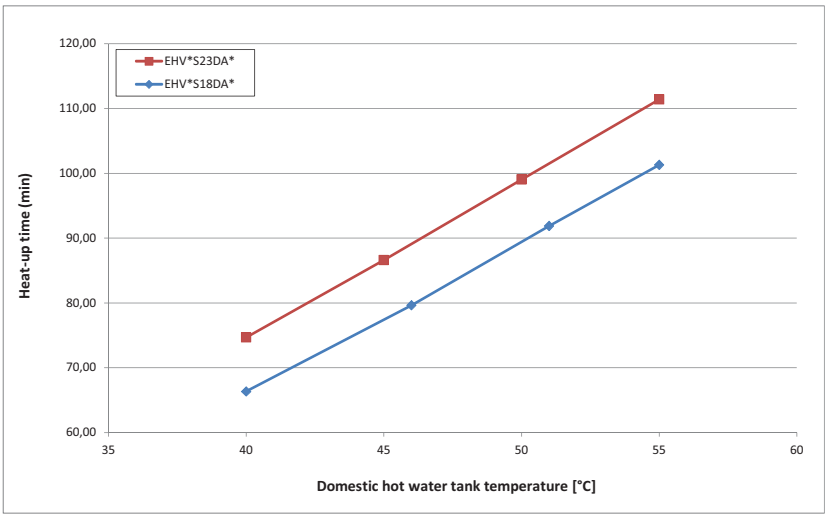
5 Capacity tables

5 - 1 Domestic Hot Water performance

EHVH-D6V
EHVH-D9W
EHVH-DV
EHVX-D3V
EHVX-D6V
EHVX-D9W
EHVZ-D6V
EHVZ-D9W

Heat-up times



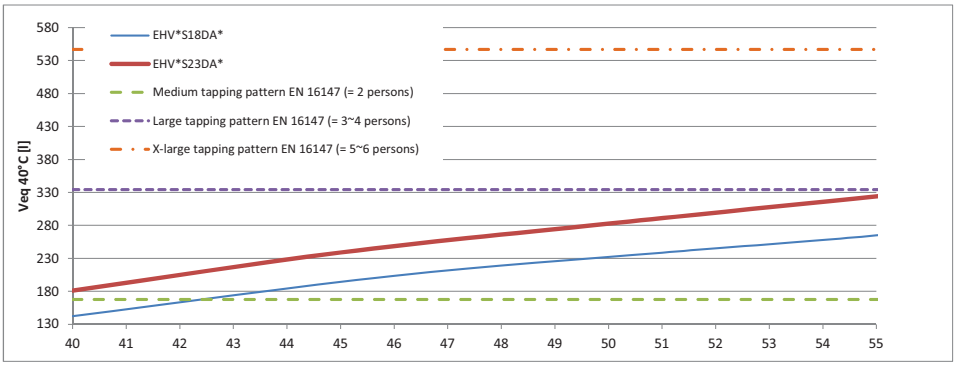
	Heat-up time domestic hot water tank until 45°C
EHV*04S18DA*	·79· min.
EHV*08S23DA*	·87· min.

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.

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.

Notes
(1) According to EN16147.

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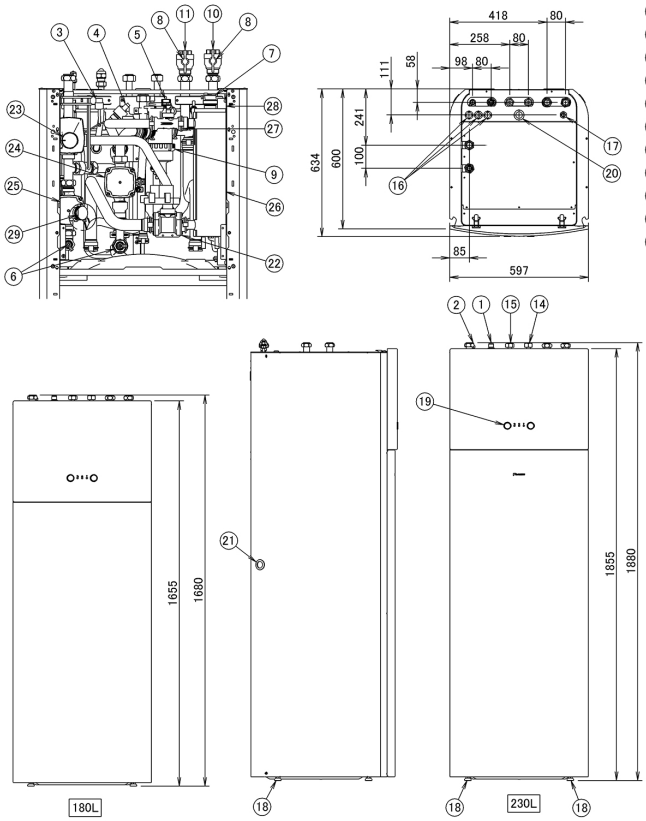
6 Dimensional drawings

6 - 1 Dimensional Drawings

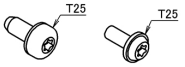
EHVZ-D6V
EHVZ-D9W

The additional zone is the temperature zone with the highest temperature.
The main zone is the temperature zone with the lowest temperature.



1. Gas pipe connection ·Ø 15.90mm· flare
2. Liquid pipe connection ·Ø 6.35mm· flare
3. Refrigerant pressure sensor
4. Space heating water pressure sensor
5. Safety valve
6. Drain valve water circuit
7. Air purge
8. Shut-off valve
9. Magnetic filter / dirt separator (additional/direct zone)
10. Water IN connection (additional/direct zone) ·1"F BSP· (female)
11. Water OUT connection (additional/direct zone) ·1"F BSP· (female)
12. Water IN connection (main/mixed zone) ·1"F BSP· (female)
13. Water OUT connection (main/mixed zone) ·1"F BSP· (female)
14. Domestic hot water: cold water in ·3/4" F BSP·
15. Domestic hot water: hot water out ·3/4" F BSP·
16. High voltage wiring intake ·Ø 24mm·
17. Low voltage wiring intake ·Ø 15mm·
18. Levelling feet
19. User interface
20. Recirculation connection ·G 3/4"· (female)
21. Drain outlet (unit + safety valve)
22. 3-way valve (space heating/domestic hot water)
23. 3-way valve (mixing valve for the main/mixed zone)
24. Pump (additional/direct zone)
25. Pump (main/mixed zone)
26. Backup heater
27. Flow sensor
28. Expansion vessel
29. Water filter (main/mixed zone)

Screws used in this unit:



The typical field installation has to be done according to the applicable legislation.

For examples, refer to the installer reference guide.

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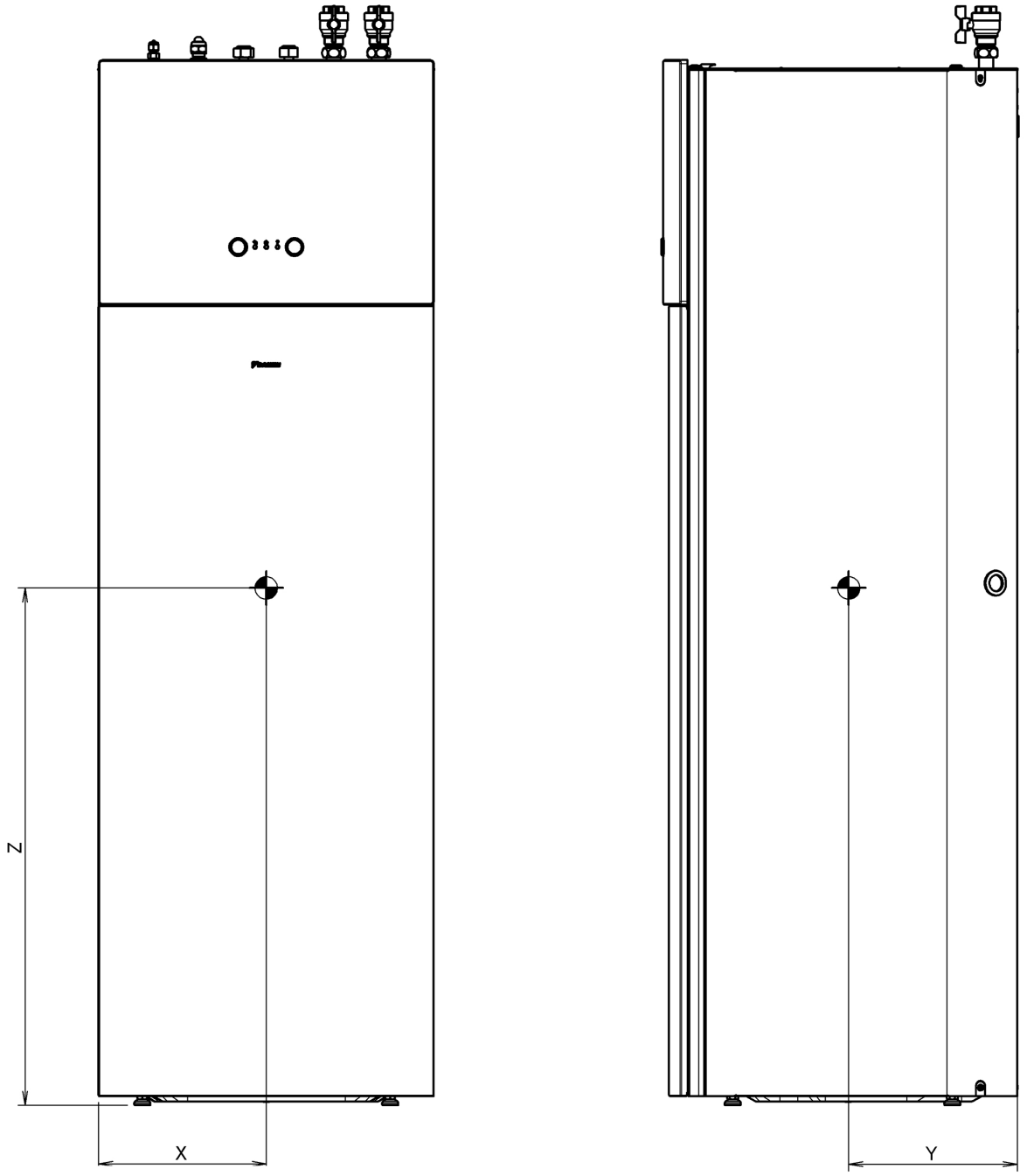
7 Centre of gravity

7 - 1 Centre of Gravity

EHVH-D6V
EHVH-D9W
EHVH-DV
EHVX-D3V
EHVX-D6V
EHVX-D9W
EHVZ-D6V
EHVZ-D9W

MODEL	X	Y	Z
180L	297.5	299	718
230L	297.5	299	858



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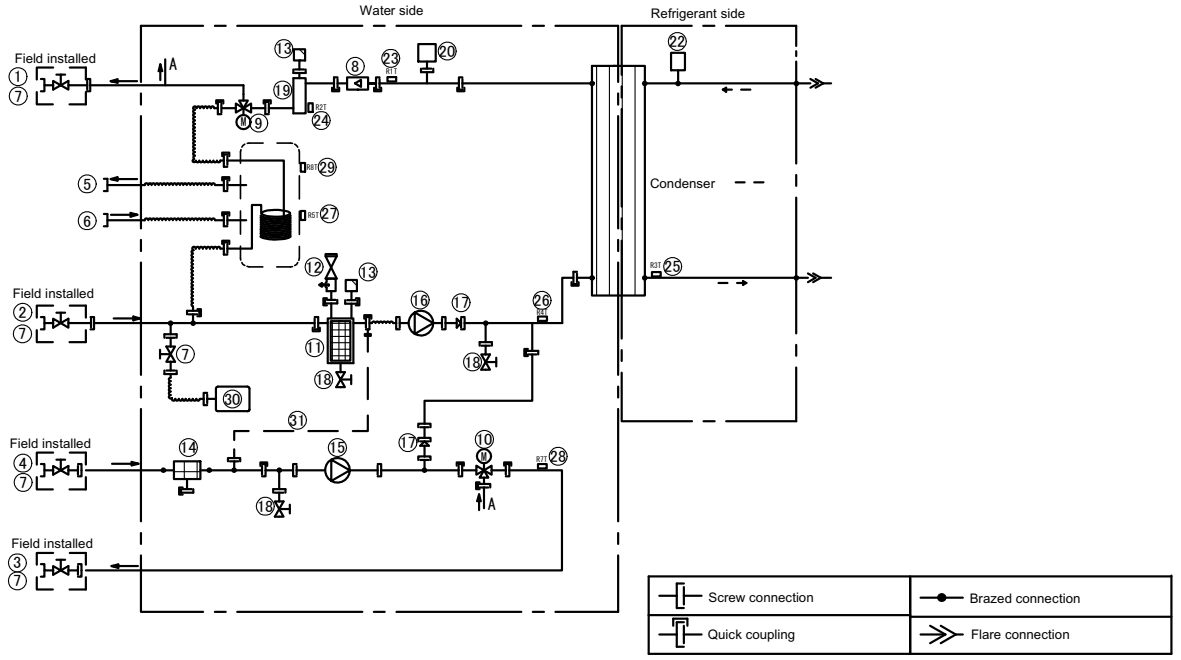
8 Piping diagrams

8 - 1 Piping Diagrams

EHVZ-D6V
EHVZ-D9W

① Space heating - water OUT (additional/direct zone)
② Space heating - water IN (additional/direct zone)
③ Space heating - water OUT (main/mixed zone)
④ Space heating - water IN (main/mixed zone)
⑤ Domestic hot water: hot water out
⑥ Domestic hot water: cold water in
⑦ Shut-off valve
⑧ Flow sensor
⑨ 3-way valve (space heating/domestic hot water)
⑩ 3-way valve (mixing valve for the main/mixed zone)
⑪ Magnetic filter / dirt separator
⑫ Safety valve
⑬ Air purge
⑭ Water filter (main/mixed zone)
⑮ Pump (main/mixed zone)
⑯ Pump (additional/direct zone)
⑰ Check valve
⑱ Drain valve
⑲ Backup heater
⑳ Space heating water pressure sensor
㉑ Plate heat exchanger
㉒ Refrigerant pressure sensor
㉓ R1T Outlet water heat exchanger thermistor
㉔ R2T Outlet water backup heater thermistor
㉕ R3T Thermistor (heat exchanger, liquid pipe)
㉖ R4T Inlet water thermistor
㉗ R5T Tank thermistor
㉘ R7T Water outlet thermistor (main/mixed zone)
㉙ R8T Tank thermistor
㉚ Expansion vessel
㉛ Capillary tube



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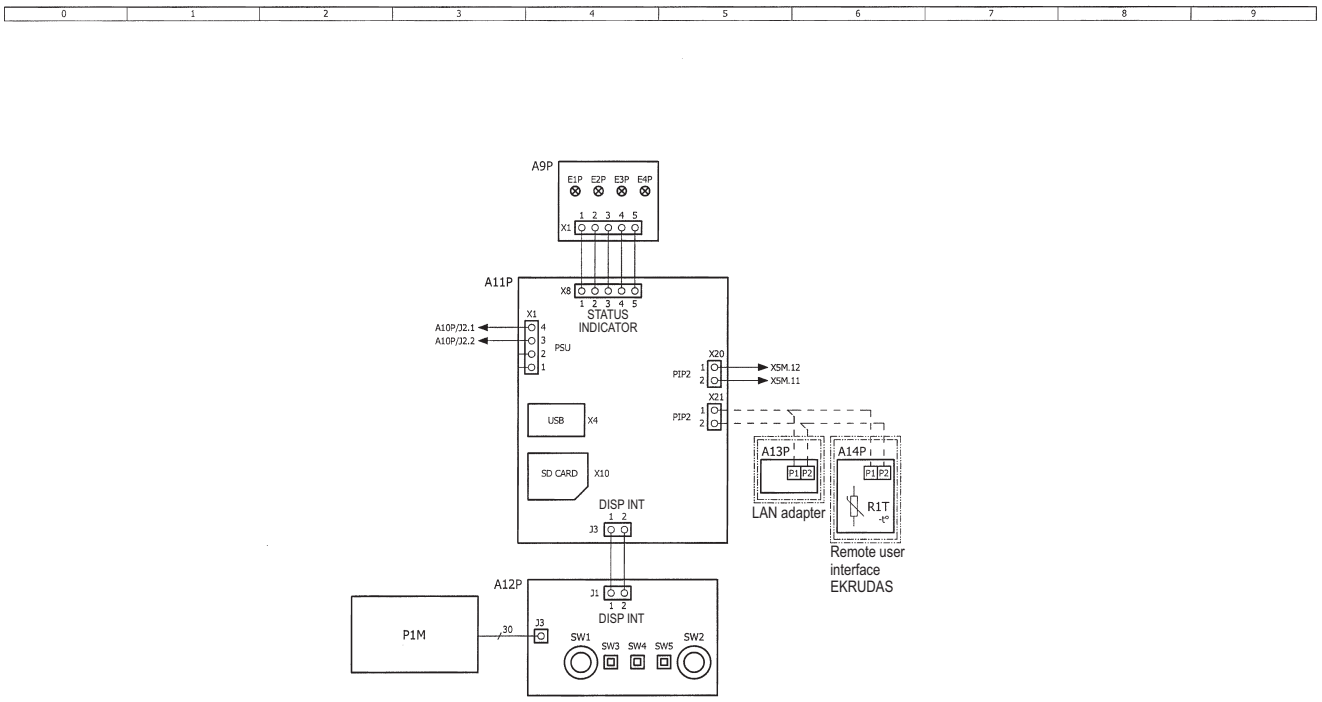
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

EHVZ-D6V
EHVZ-D9W



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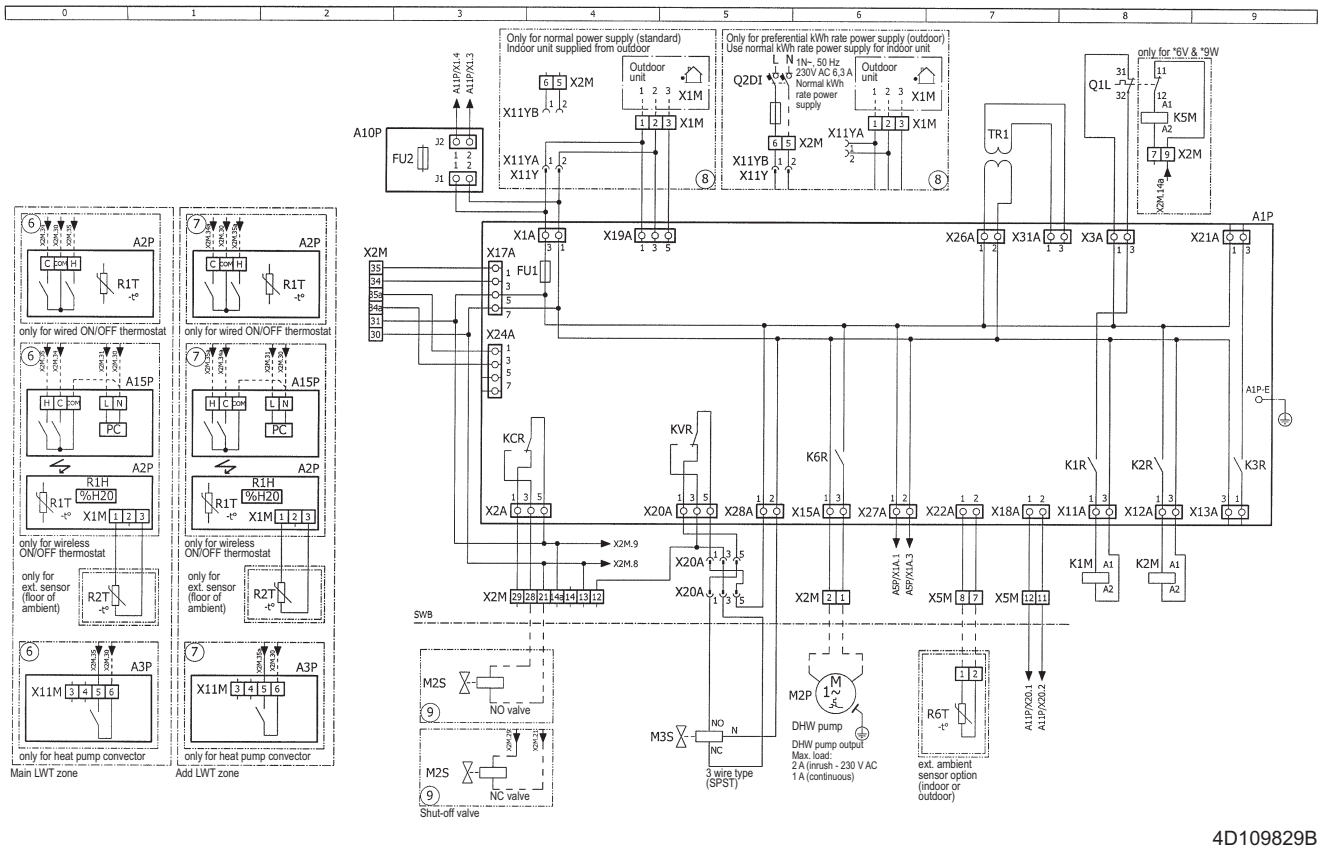
EHVZ-D6V
EHVZ-D9W



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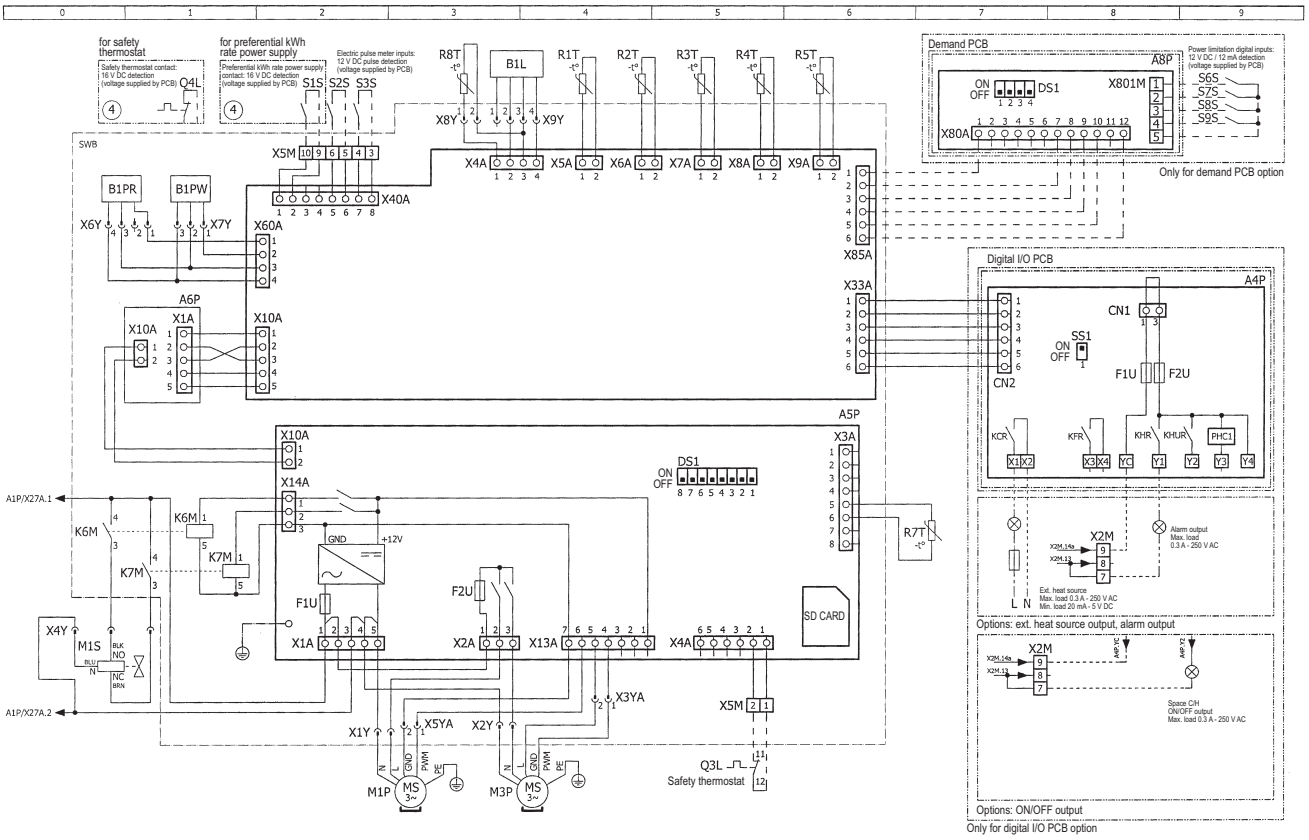
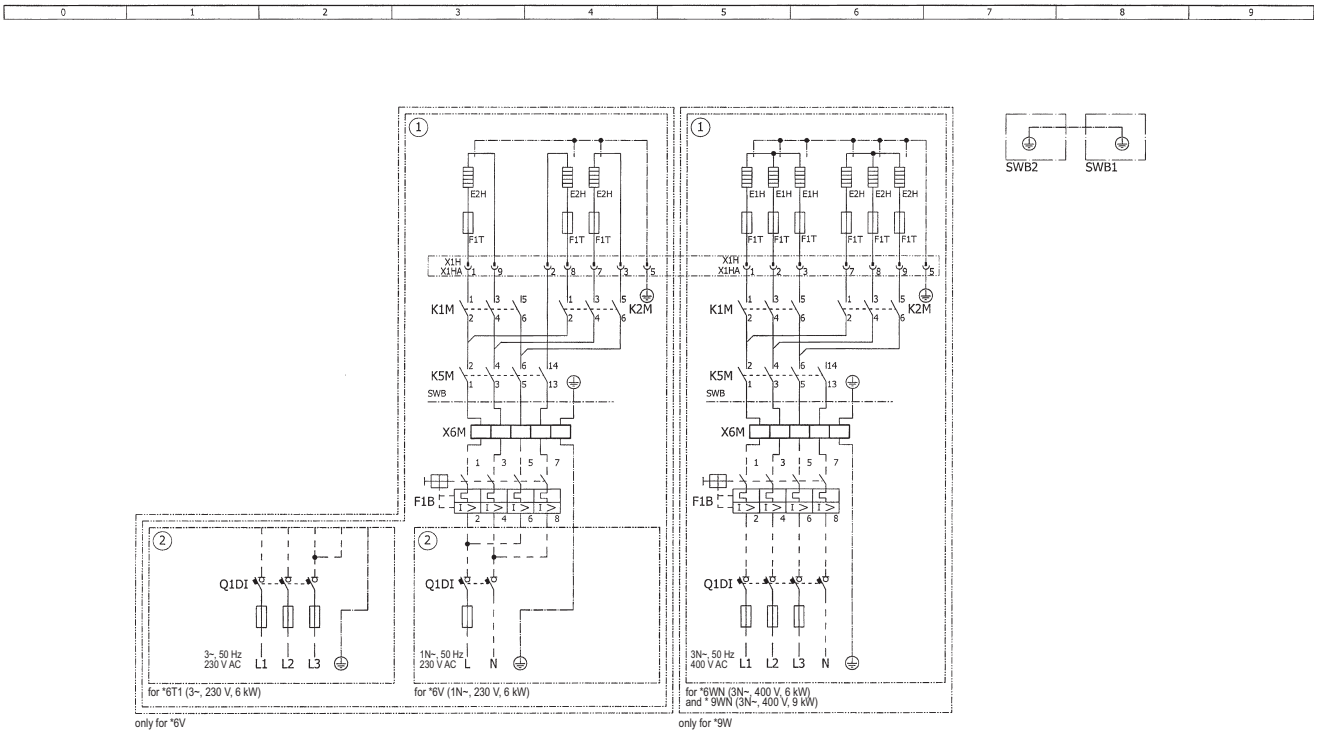
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

EHVZ-D6V
EHVZ-D9W



EHVZ-D6V
EHVZ-D9W



9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

EHVZ-D6V
EHVZ-D9W

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

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

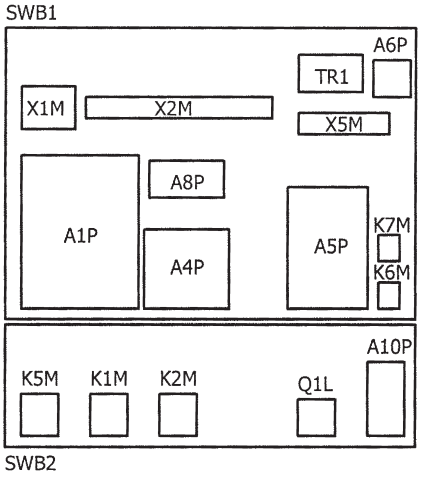
Backup heater power supply
- ☐ 6T1 (3N~, 230V, 6kW)
- ☐ 6V (1N~, 230V, 6kW)
- ☐ 6WN/9WN (3N~, 400V, 6/9kW)

User installed options:
- ☐ LAN adapter
- ☐ Remote user inteface
- ☐ 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 convector
- ☐ Safety thermostat

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

POSITION IN SWITCH BOX



LEGEND

* : optional
\# : field supply

Part n°		Description
A1P		main PCB
A2P	*	ON/OFF thermostat (PC = power circuit)
A3P	*	heat pump convector
A4P	*	digital I/O PCB
A5P		bizone PCB
A6P		current loop PCB
A8P	*	demand PCB
A9P		status indicator
A10P		MMI PSU PCB
A11P		MMI main PCB
A12P		MMI display PCB
A13P	*	LAN adapter
A14P	*	user interface PCB
A15P	*	receiver PCB (wireless ON/OFF thermostat)
B1L		flow sensor
B1PR		refrigerant pressure sensor
B1PW		water pressure sensor
CN* (A4P)	*	connector
DS1 (A5P)		dipswitch
DS1 (A8P)	*	dipswitch
E1A		electrical anode
E1H		backup heater element (1 kW)
E2H		backup heater element (2 kW)
E*P (A9P)		indication LED
F1B	#	overcurrent fuse backup heater
F1T		thermal fuse backup heater
F1U, F2U (A4P)	*	fuse 5 A 250 V for digital I/O PCB
F1U, F2U (A5P)		fuse T 2 A 250 V for PCB
FU1 (A1P)		fuse T 5 A 250 V for PCB
FU2 (A10P)		fuse T 1.6 A 250 V for PCB
K1M, K2M		contactor backup heater
K5M		safety contactor BUH
K6M		relay 3 way valve bypass
K7M		relay 3 way valve flow
K*R (A1P, A4P)		relay on PCB

Part n°		Description
M1P		additional zone pump
M1S		mixing 3 way valve
M2P	#	domestic hot water pump
M2S	#	2 way valve for cooling mode
M3P		main zone pump
M3S		3 way valve for space heating / domestic hot water
P1M		MMI display
PC (A15P)	*	power circuit
PHC1 (A4P	*	optocoupler input circuit
Q1L		thermal protector backup heater
Q3L, 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)		outlet backup heater thermistor
R2T (A2P)	*	external sensor (floor or ambient)
R3T		refrigerant liquid side thermistor
R4T		inlet water thermistor
R5T, R8T		domestic hot water thermistor
R6T	*	external indoor or outdoor ambient thermistor
R7T		mixed leaving water thermistor
S1S	#	preferential kWh rate PS contact
S2S	#	electrical meter pulse input 1
S3S	#	electrical meter pulse input 2
S6S-S9S	*	digital power limitation inputs
SS1 (A4P)	*	selector switch
SW1~2 (A12P)		turn buttons
SW3~5 (A12P)		push button
TR1		power supply transformer
X6M	#	BUH power supply terminal strip
X*, X*A, J*, X*H*, X*Y		connector
X*M		terminal strip

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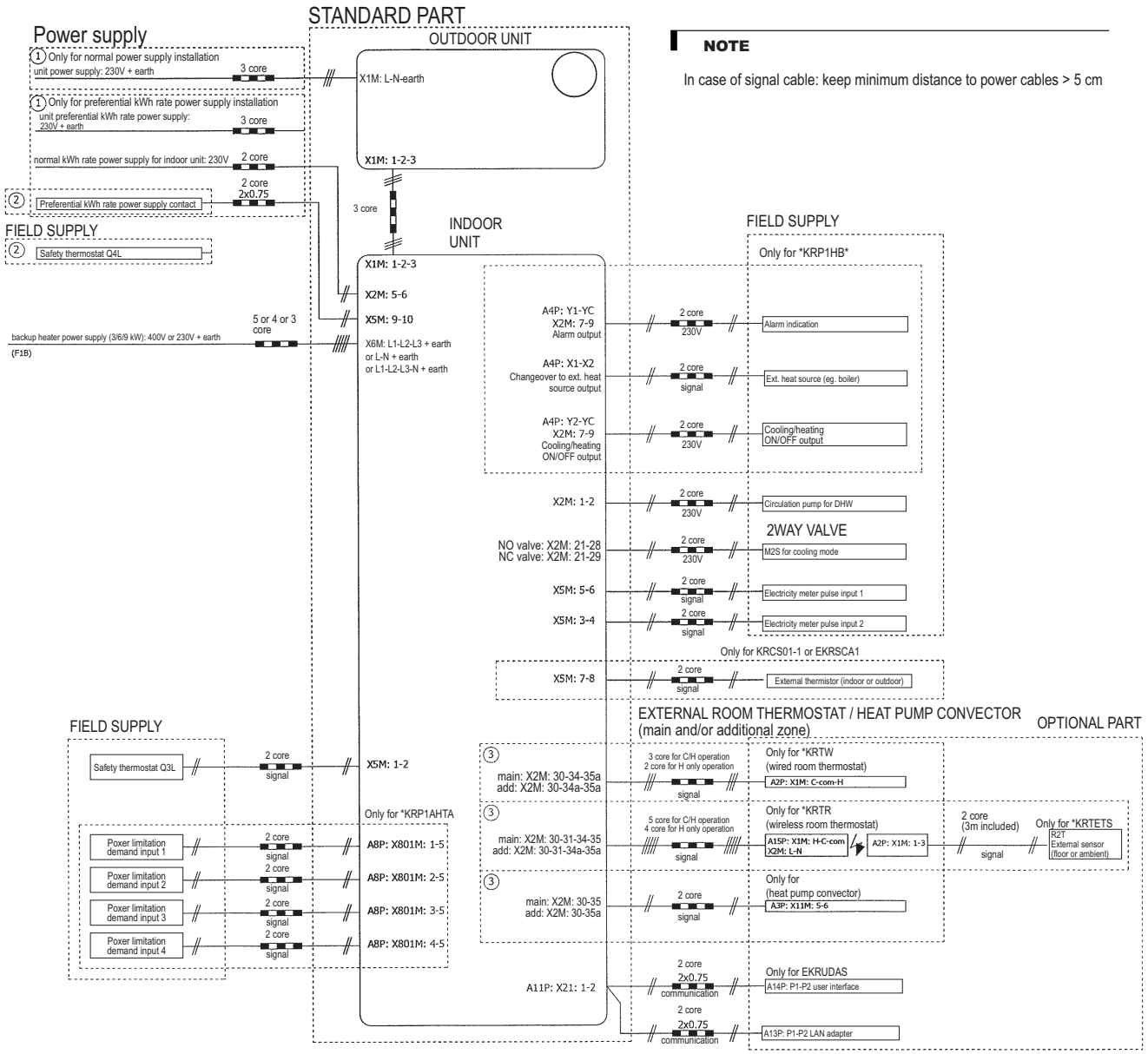
10 External connection diagrams

10 - 1 External Connection Diagrams

EHVZ-D6V
EHVZ-D9W



NOTE

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

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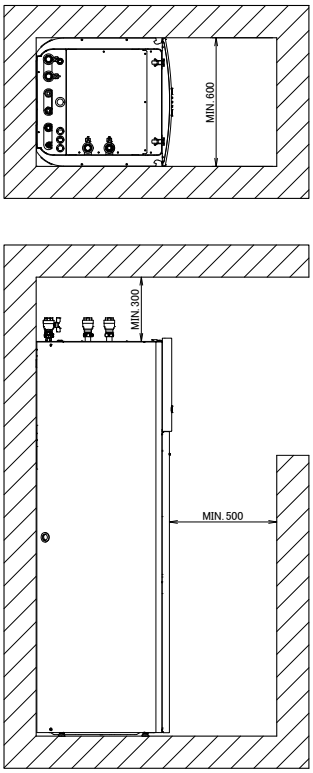
11 Installation

11 - 1 Installation Method

EHVZ-D6V
EHVZ-D9W



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12 Hydraulic performance

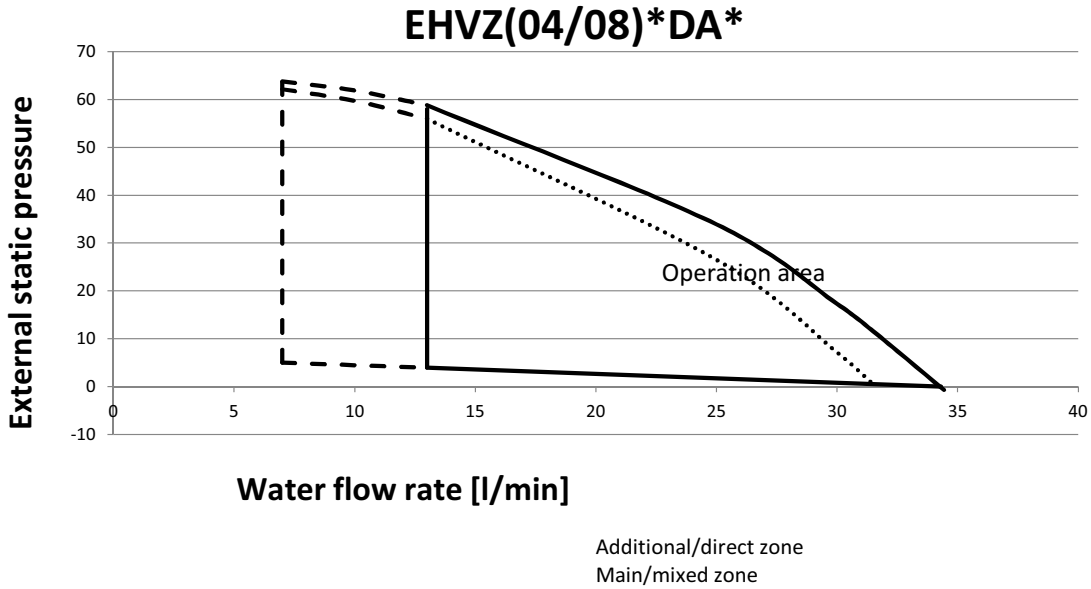
12 - 1 Static Pressure Drop Unit

12 Hydraulic performance

12 - 1 Static Pressure Drop Unit

EHVZ-D6V
EHVZ-D9W

12



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

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

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

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

4D112013

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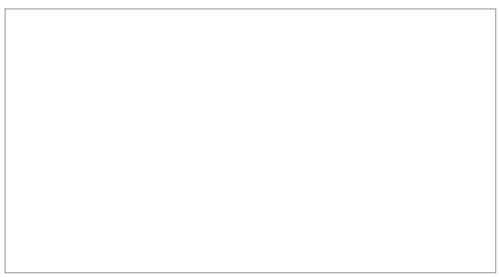

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