

## 8 Wiring diagrams

8 - 1 Notes & Legend

### EBBH-D6V / EBBH-D9W / EBBX-D6V / EBBX-D9W

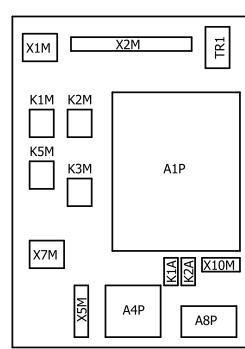
#### NOTES to go through before starting the unit

X1M	: Main terminal		: Option
X2M	: Field wiring terminal for AC		: Wiring depending on model
X5M	: Field wiring terminal for DC		
X6M	: BÜH Power supply terminal		
X7M, X8M	: BSH Power supply terminal		
X10M	: Smartgrid terminal		: Not mounted in switch box
— — — —	: Earth wiring		
— — — —	: Field supply		
(1)	: Several wiring possibilities		: PCB

1. Connection point of the power supply for the BÜH/BSH should be foreseen outside the unit.

Backup heater power supply	<input type="checkbox"/> 6T1 (3~, 230V, 6kW)
	<input type="checkbox"/> 6V3 (1N~, 230V, 6kW)
	<input type="checkbox"/> 6WN/9WN (3N~, 400V, 6/9kW)
User installed options:	<input type="checkbox"/> Domestic hot water tank
	<input type="checkbox"/> Remote user interface
	<input type="checkbox"/> Ext. indoor thermistor
	<input type="checkbox"/> Ext. outdoor thermistor
	<input type="checkbox"/> Digital I/O PCB
	<input type="checkbox"/> Demand PCB
	<input type="checkbox"/> Safety thermostat
	<input type="checkbox"/> Smartgrid kit
	<input type="checkbox"/> WLAN adapter module
	<input type="checkbox"/> WLAN cartridge
	<input type="checkbox"/> Bizon mixing kit
Main LWT:	<input type="checkbox"/> ON/OFF thermostat (wired)
	<input type="checkbox"/> ON/OFF thermostat (wireless)
	<input type="checkbox"/> Ext. thermistor
	<input type="checkbox"/> Heat pump convector
Add LWT:	<input type="checkbox"/> ON/OFF thermostat (wired)
	<input type="checkbox"/> ON/OFF thermostat (wireless)
	<input type="checkbox"/> Ext. thermistor
	<input type="checkbox"/> Heat pump convector

#### POSITION IN SWITCH BOX



#### LEGEND

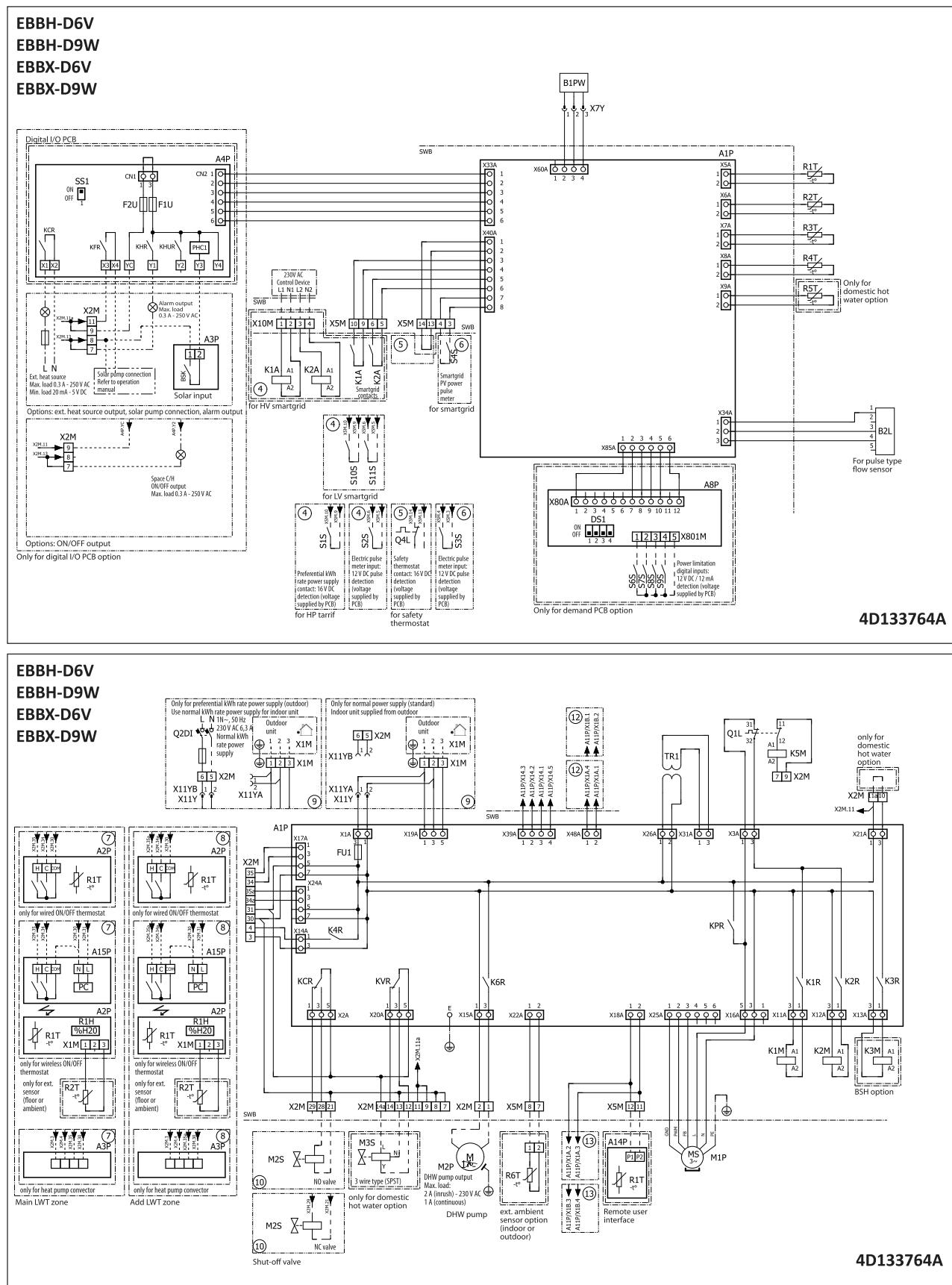
Part n°	Description
A1P	main PCB
A2P	* ON/OFF thermostat (PC=power circuit)
A3P	* heat pump convector
A4P	* digital I/O PCB
A8P	* demand PCB
A9P	status indicator
A11P	MMI main PCB
A14P	* user interface PCB
A15P	* receiver PCB (wireless ON/OFF thermostat)
A20P	* WLAN module
A30P	* Bizon mixing kit PCB
B2L	flow sensor
B1PW	water pressure sensor
BSK (A3P)	solar pump station relay
CN* (A4P)	* connector
DS1 (A8P)	dipswitch
E1H	backup heater element (1 kW)
E2H	backup heater element (2 kW)
E4H	* booster heater (3 kW)
E*P (A9P)	indication LED
F1B	# overcurrent fuse backup heater
F2B	# overcurrent fuse booster heater
F1T	thermal fuse backup heater
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)	fuse T 6.3 A 250 V for PCB
K1A, K2A	* high voltage smartgrid relay
K1M, K2M	contactor backup heater
K3M	* contactor booster heater
K5M	safety contactor BÜH
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 spaceheating/ domestic hot water
P1M	MMI display
PC (A15P)	* power circuit

\* : optional   #: field supply

4D133764A

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### 8 - 2 Control Circuit



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