8 Wiring diagrams

8 - 1 Notes & Legend

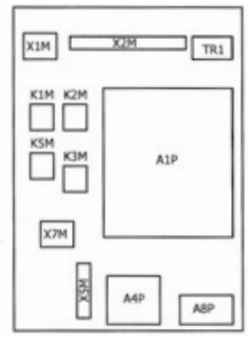
ETBH-D6V
ETBH-D9W
ETBX-D6V
ETBX-D9W

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
X7M, X8M	: BSH Power supply terminal
———	: Earth wiring
- - - - -	: Field supply
①	: Several wiring possibilities
	: Option
	: Not mounted in switch box
	: PCB
	: Wiring depending on model

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

POSITION IN SWITCH BOX



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

User installed options:
- ☐ LAN adapter
- ☐ Domestic hot water tank
- ☐ Remote user interface
- ☐ Ext. indoor thermistor
- ☐ Ext. outdoor thermistor
- ☐ Digital I/O PCB
- ☐ Demand PCB
- ☐ Bottom plate heater
- ☐ Safety thermostat

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

LEGEND

Translation can be found in the installation manual.

* : optional # : field supply

Part n°		Description
A1P		Main terminal
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
A12P		MMI display PCB
A13P	*	LAN adapter
A14P	*	user interface PCB
A15P	*	receiver PCB (wireless On/OFF thermostat)
B1L		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 5 A 250 V for PCB
FU2		fuse T 0,5 A 250
K1M, K2M		contactor backup heater
K3M	*	contactor booster heater
K5M		safety contactor BUH
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
P1M		MMI display
PC (A15P)	*	power circuit
PHC1 (A4P)	*	optocouples 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)		inlet water 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)
R5T		domestic hot water thermistor
R6T	*	external indoor or outdoor ambient thermistor
S1L		flow swith
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 swith
SW1~2 (A12P)		turn buttons
SW3~5 (A12P)		push button
TR1		power supply transformer
X6M	#	BUH power supply terminal strip
X6M	*	BSH power supply connectoe
X7M, X8M		BSH power supply terminal strip
X*, X*A, J* X*Y*, Y*		connector
X*M		terminal strip

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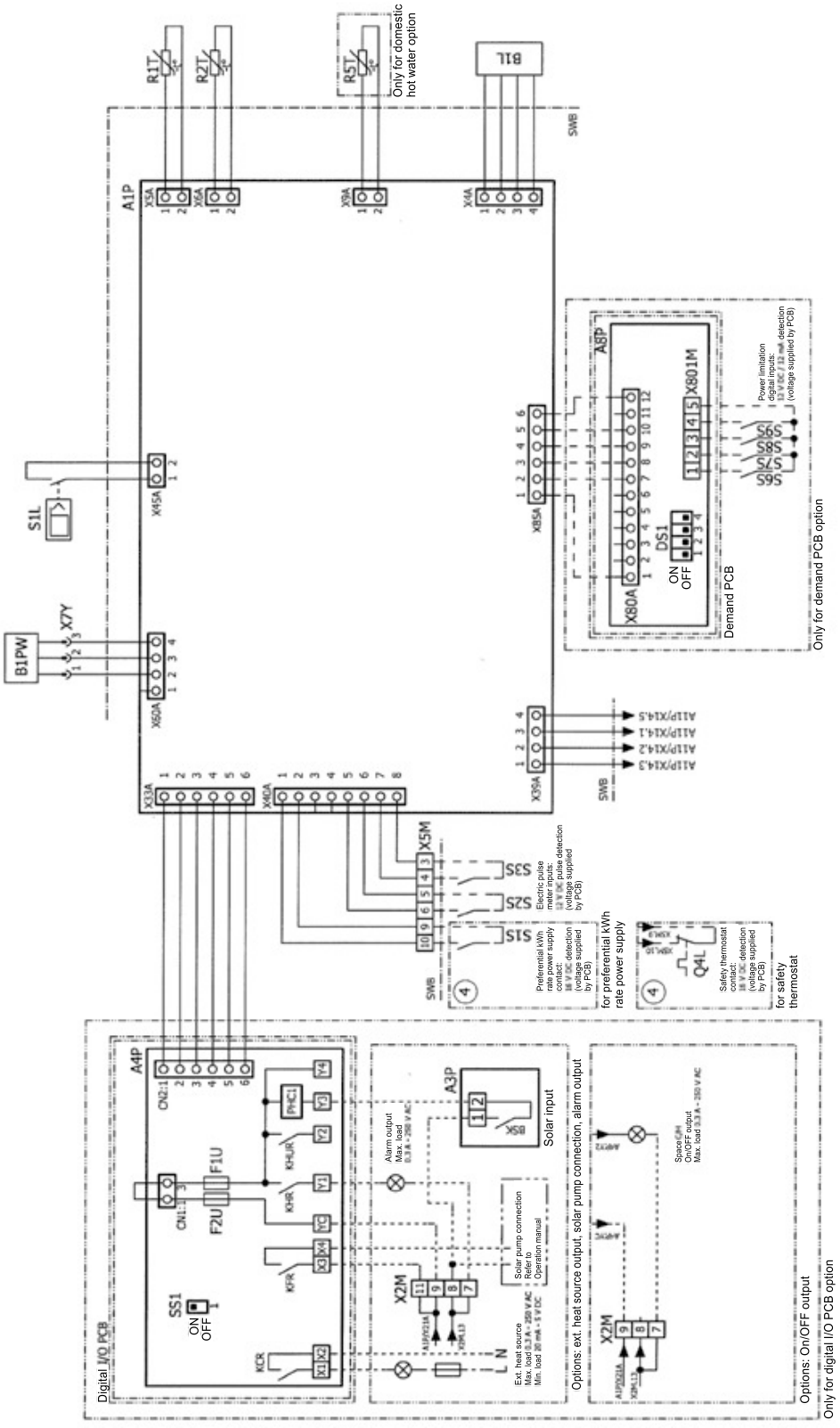
8 Wiring diagrams

8 - 2 Control Circuit

ETBH-D6V
ETBH-D9W
ETBX-D6V
ETBX-D9W



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8 Wiring diagrams

8 - 2 Control Circuit

ETBH-D6V
ETBH-D9W
ETBX-D6V
ETBX-D9W