

NOTES to go through before starting the unit

- X1M

: Main terminal
- X2M

: Field wiring terminal for AC
- X3M

: External backup heater terminal
- X5M

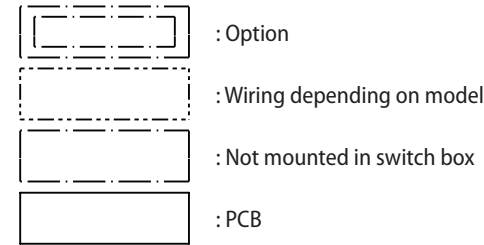
: Field wiring terminal for DC
- X9M

: Internal backup heater power supply terminal
- X10M

: Smartgrid terminal
-

: Earth wiring
- : Field supply
- 1

: Several wiring possibilities



NOTES

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

- Backup heater power supply

☐ 3V (1N~, 230 v, 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

☐ Smartgrid kit

☐ Bypass kit

☐ LAN adapter

☐ BZ mixing kit
- Main LWT:

☐ ON/OFF thermostat (wired)

☐ ON/OFF thermostat (wireless)

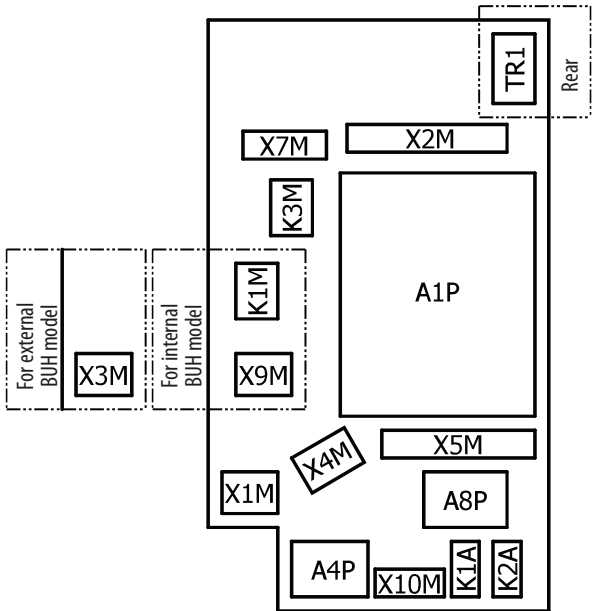
☐ Ext. thermistor
- Add LWT:

☐ ON/OFF thermostat (wired)

☐ ON/OFF thermostat (wireless)

☐ Ext. thermistor
- ☐ Heat pump convector

POSITION IN SWITCH BOX



LEGEND

Part n°	Description	Part n°	Description
A1P	main PCB	P1M	MMI display
A2P	* ON/OFF thermostat (PC=power circuit)	PC (A15P)	* power circuit
A3P	* heat pump convector	PHC1 (A4P)	* optocoupler input circuit
A4P	* digital I/O PCB	Q1L	thermal protector backup heater
A8P	* demand PCB	Q2L	* thermal protector booster heater
A11P	* MMI main PCB	Q4L	# safety thermostat
A13P	* LAN adapter	Q*DI	# earth leakage circuit breaker
A14P	* user interface PCB	R1H (A2P)	* humidity sensor
A15P	* receiver PCB (wireless ON/OFF thermostat)	R1T (A1P)	outlet water heat exchanger thermistor
A30P	* BZ mixing kit PCB	R1T (A2P)	* ambient sensor ON/OFF thermostat
B1L	flow sensor	R1T (A14P)	* ambient sensor user interface
B1PR	refrigerant pressure sensor	R2T (A1P)	internal BUH sensor
B1PW	water pressure sensor	R2T (A2P)	* external sensor (floor or ambient)
CN* (A4P)	* connector	R3T	refrigerant liquid side thermistor
DS1 (A8P)	* dipswitch	R4T	inlet water thermistor
E3H	backup heater element (3 kW)	R5T	* domestic hot water thermistor
E5H	* booster heater element (2,4 kW)	R6T	* external indoor or outdoor ambient thermistor
E6H	PHE heater (50 W)	S1L	* flow switch
E9H	expansion vessel heater (50 W)	S1S	# preferential kWh rate PS contact
E10H	expansion vessel flex heater (15,6 W)	S*T	thermostat
E11H, E12H	PHE heater IN/OUT (33 W)	S2S	# electrical meter pulse input 1
E*P (A9P)	indication LED	S3S	# electrical meter pulse input 2
F1B	# overcurrent fuse backup heater	S4S	# smart grid feed-in
F1T	thermal fuse backup heater	S6S-S9S	* digital power limitation inputs
F2B	# overcurrent fuse backup heater	S10S-S11S	# low voltage smartgrid contact
F2T	thermal fuse booster heater	SS1 (A4P)	* selector switch
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB	SW1~2 (A11P)	turn buttons
FU1 (A1P)	fuse T 5A 250 V for PCB	SW3~5 (A11P)	push button
K1A, K2A	* high voltage smartgrid relay	TR1	power supply transformer
K1M	contactor backup heater	X4M	* booster heater power supply terminal strip
K3M	* contactor booster heater	X6M, X8M	# power supply terminal strip client
K*R (A1P-A4P)	relay on PCB	X9M	backup heater power supply terminal strip
M1P	main supply pump	X10M	* smartgrid power supply terminal strip
M2P	# domestic hot water pump	X*, X*A, X*Y	connector
M2S	# 2 way valve for cooling mode	X*M	terminal strip
M3S	* 3 way valve for floorheating /domestic hot water		
M4S	* valve kit		

* : optional

#: field supply