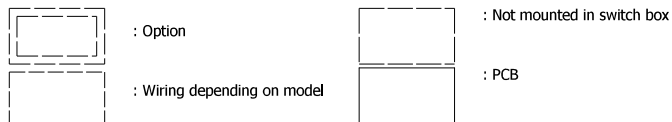


ETSH12E / ETSHB12E

ETSX12E / ETSXB12E

NOTES to go through before starting the unit

- X1M : Main terminal
- X6M : BUH power supply terminal
- X12M : Field wiring terminal for AC
- X15M : Field wiring terminal for DC
- : Earth wiring
- - - - - : Field supply
- ① : Several wiring possibilities



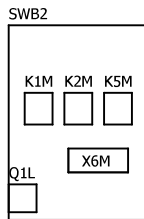
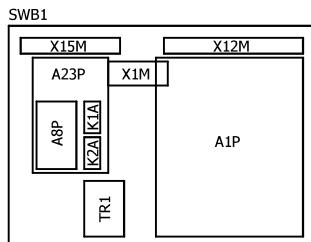
- Backup heater
- 3V (1N~, 230V, 3kW)
- power supply: 6V3 (1N~, 230V, 6kW)
- 6WN/9WN (3N~, 400V, 6/9kW)

- User installed options:
- Backup heater
 - LAN adapter
 - Remote user interface
 - Ext. indoor thermistor
 - Ext. outdoor thermistor
 - Demand PCB
 - Smartgrid kit
 - WLAN adapter module
 - WLAN cartridge
 - BZ mixing kit

- 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
A1P	main PCB
A2P	* On/OFF thermostat (PC=power circuit)
A3P	* heat pump convactor
A8P	* demand PCB
A9P	status indicator
A11P	MMI PCB
A13P	* LAN adapter
A14P	* user interface PCB
A15P	* receiver PCB (wireless On/OFF thermostat)
A20P	* WLAN module
A23P	hydro extension PCB
A30P	* BZ mixing kit PCB
B2L	flow sensor
B1PW	water pressure sensor
DS1 (A8P)	* dipswitch
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
F2B	# overcurrent fuse main
FU1 (A1P)	fuse (T 5 A 250 V for PCB)
FU1 (A23P)	fuse (3.15 A 250 V for PCB)
K1A, K2A	* high voltage smartgrid relay
K1M, K2M	* contactor backup heater
K5M	* safety contactor BUH
K* (A23P)	relay on PCB
K*R (A*P)	relay on PCB
M1P	main supply pump
M1S	DHW tank mixing 3 way valve
M2P	# domestic hot water pump
M2S	bypass mixing 3 way valve
M4S	# shut-off valve

P1M	MMI display
PC (A15P)	* power circuit
Q1L	* thermal protector backup heater
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)
R5T, R8T	domestic hot water thermistor
R6T	* external indoor or outdoor ambient thermistor
R7T	mixed leaving water thermistor
S1L	flow switch
S1S	# preferential kWh rate PS contact
S2S	# electrical meter pulse input 1
S3S	# electrical meter pulse input 2
S4S	# smart grid feed-in contact
S6S-S9S	* digital power limitation inputs
S10S-S11S	# low voltage smartgrid contact
S12S	# gas meter input
S13S	# solar input
SW1~2 (A11P)	turn buttons
SW3~5 (A11P)	push button
TR1	power supply transformer
X*, X*A, X*H*, X*Y	connector
X*M	terminal strip