

9 Wiring diagrams

9 - 1 Notes & Legend

ETVH12E6V / ETVH12UE6V / ETVH12E9W / ETVX12E6V / ETVX12E9W

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
 X10M : Smartgrid terminal
 X1M, X10M : Earth wiring
 --- **/12.2 : Field supply
 ① : Several wiring possibilities
- Option
 : Wiring depending on model
 : Not mounted in switch box
 : PCB

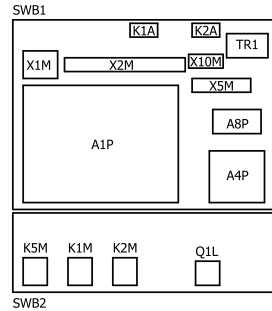
NOTES

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

- Backup heater power supply
 User installed options:

- ☐ 6T1 (3~, 230V, 6kW)
☐ 6V3 (1N~, 230V, 6kW)
☐ 6WN/9WN (3N~, 400V, 6/9kW)
☐ Remote user interface
☐ Ext. indoor thermistor
☐ Ext. outdoor thermistor
☐ Digital I/O PCB
☐ Demand PCB
☐ Safety thermostat
☐ Smartgrid kit
☐ WLAN adapter module
☐ WLAN cartridge
☐ Bizon 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

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 convactor	PHC1 (A4P)	* optocoupler input circuit
A4P	* digital I/O PCB	Q1L	thermal protector backup heater
A8P	* demand PCB	Q4L	# safety thermostat
A9P	status indicator	Q*DI	# earth leakage circuit breaker
A11P	MMI main PCB	R1H (A2P)	* humidity sensor
A14P	* user interface PCB	R1T (A1P)	outlet water heat exchanger thermistor
A15P	* receiver PCB (wireless ON/OFF thermostat)	R1T (A2P)	* ambient sensor ON/OFF thermostat
A20P	* WLAN adapter module	R1T (A14P)	* ambient sensor user interface
A30P	* Bizon mixing kit PCB	R2T (A1P)	outlet backup heater thermistor
B2L	flow sensor	R2T (A2P)	* external sensor (floor or ambient)
B1PW	water pressure sensor	R5T, R8T	domestic hot water thermistor
CN* (A4P)	* connector	R6T	* external indoor or outdoor ambient thermistor
DS1 (A8P)	* dipswitch	S1L	flow switch
E1H	backup heater element (1 kW)	S1S	# preferential kWh rate PS contact
E2H	backup heater element (2 kW)	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
F1U, F2U (A4P)	* fuse 5 A 250 V for digital I/O PCB	S10S-S11S	# low voltage smartgrid contact
FU1 (A1P)	fuse T 5 A 250 V for PCB	S5T (A4P)	* selector switch
K1A, K2A	* high voltage smartgrid relay	SW1-2 (A12P)	turn buttons
K1M, K2M	* contactor backup heater	SW3-S (A12P)	push button
K5M	* safety contactor BUH	TR1	power supply transformer
K*R (A*P)	relay on PCB	X6M	# BUH power supply terminal strip
M1P	main supply pump	X10M	* smartgrid power supply terminal strip
M2P	# domestic hot water pump	X*, X*A, J*	connector
M2S	# 2 way valve for cooling mode	X*H*, X*Y	terminal strip
M3S	3 way valve for spaceheating/domestic hot water		

* : optional

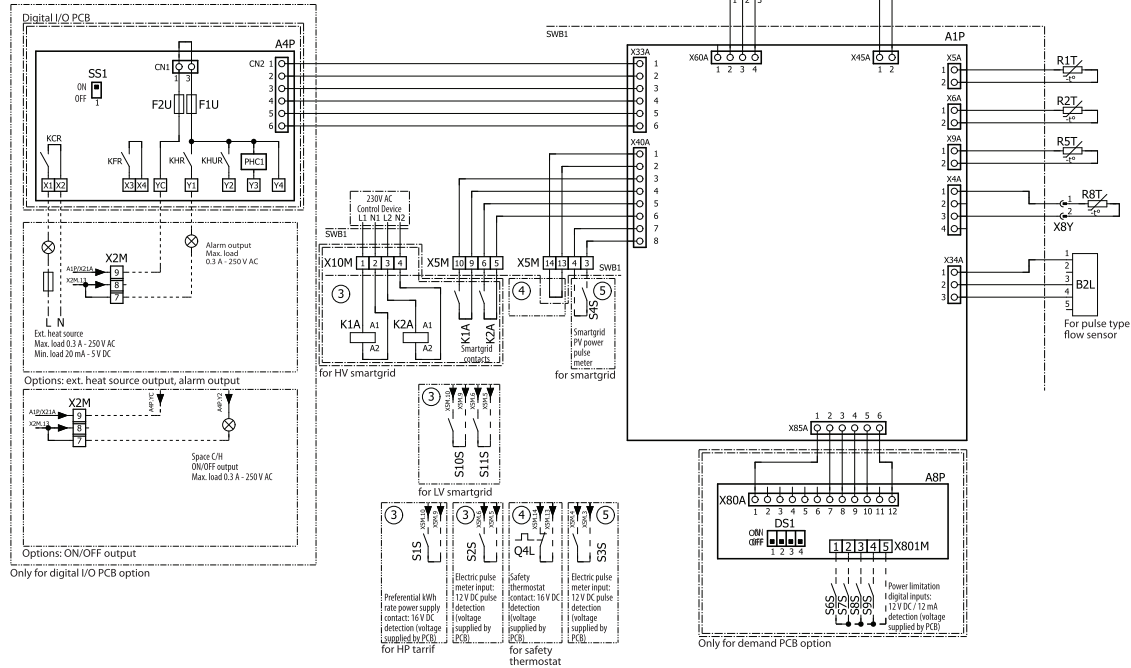
: field supply

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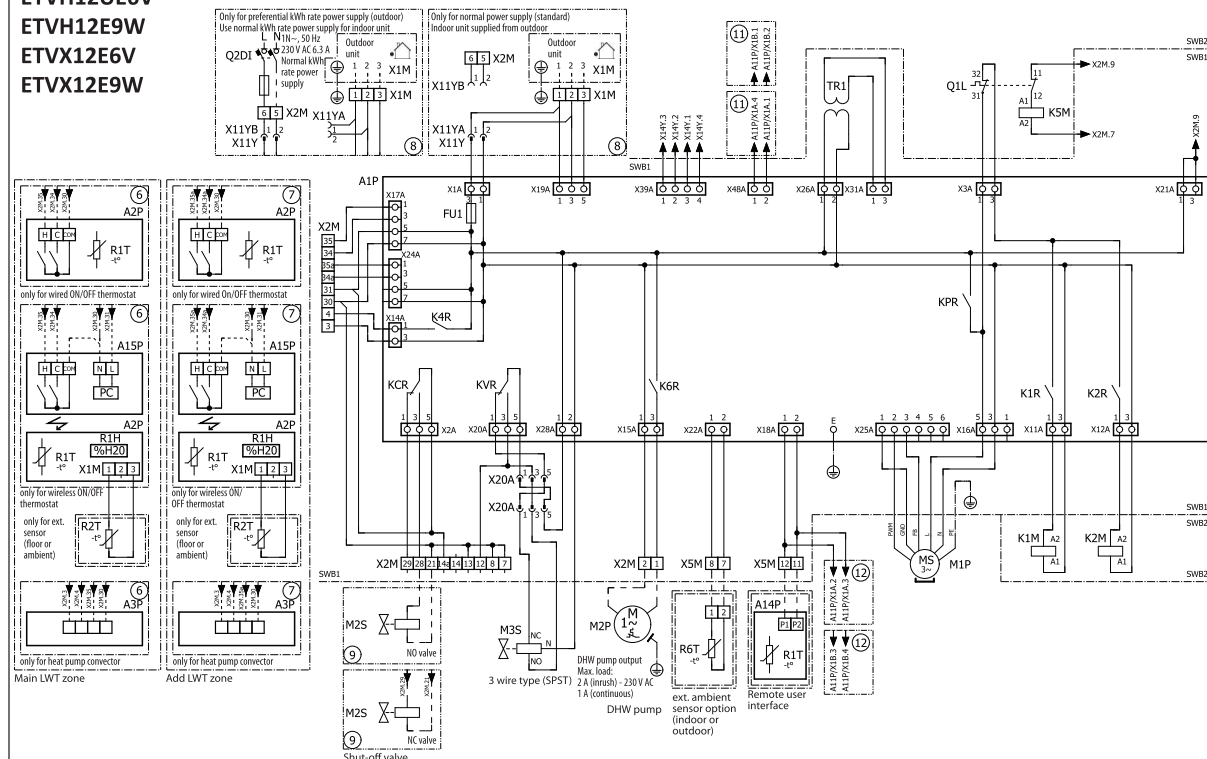
9 - 2 Control Circuit

ETVH12E6V
ETVH12UE6V
ETVH12E9V
ETVX12E6V
ETVX12E9V



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ETVH12E6V
ETVH12UE6V
ETVH12E9V
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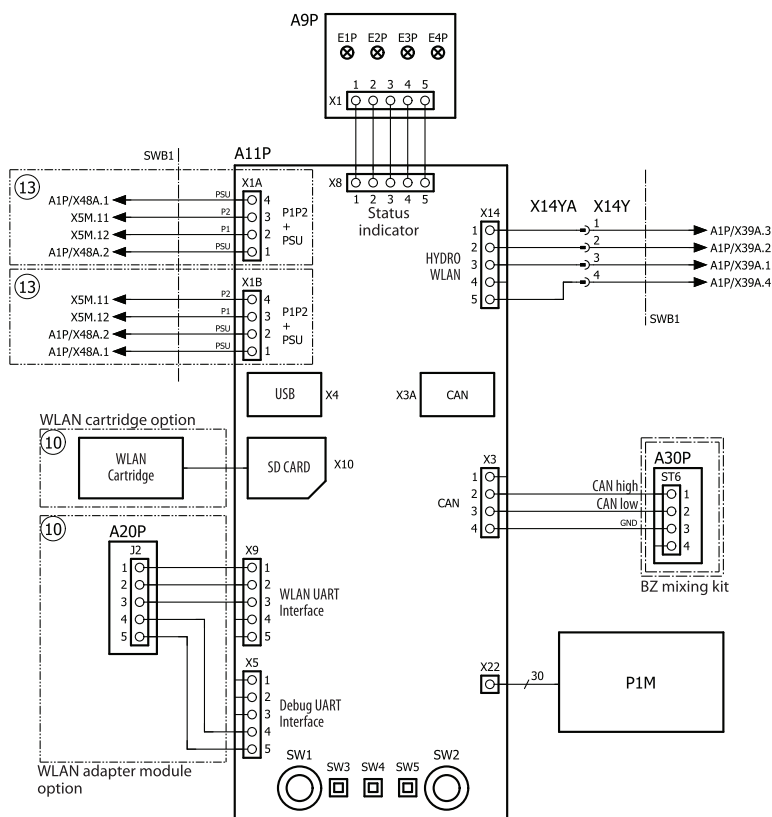


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9 Wiring diagrams

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ETVH12UE6V
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