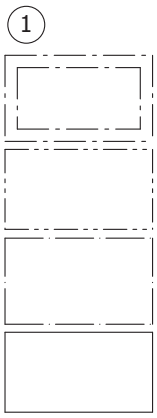
EWYA-DW1P(-H-) / EWYA-DV3P(-H-) / EWAA-DW1P(-H) / EWAA-DV3P(-H)

NOTES to go through before starting the unit

X1M : Main terminal
X2M : Field wiring terminal for AC
X3M : External backup heater terminal
X4M : Booster heater power supply terminal
X5M : Field wiring terminal for DC
X9M : Internal backup heater power supply terminal
X10M : Smartgrid terminal

: Earth wiring
: Field supply



: Several wiring possibilities
: Option
: Wiring depending on model
: Not mounted in switch box
: PCB

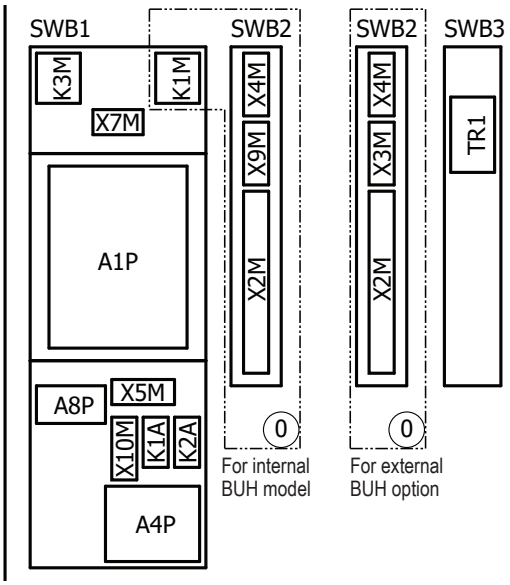
Backup heater power supply: ☐ 3V (1N~, 230V, 3kW)

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
☐ Smart grid
☐ WLAN cartridge
☐ Bypass kit

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

POSITION IN SWITCH BOX



NOTES

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

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
A11P		MMI main PCB
A14P	*	user interface PCB
A15P	*	receiver PCB (wireless ON/OFF thermostat)
B1L		flow sensor
B1PW		water pressure sensor
CN* (A4P)	*	connector
DS1 (A8P)	*	dipswitch
E3H		backup heater element (3 kW)
E5H	*	booster heater element (2,4 kW)
E6H		PHE heater (50 W)
E7H		OP10 heater (33 W)
E8H		OP10 heater (50 W)
E9H		expansion vessel heater (50 W)
E10H		expansion vessel flex heater (15,6 W)
E11H, E12H		PHE heater IN/OUT (33 W)
E*P (A9P)		indication LED
F1B	#	overcurrent fuse backup heater
F1T		thermal fuse backup heater
F2B	#	overcurrent fuse booster heater
F2T		thermal fuse booster heater
F1U, F2U (A4P)	*	fuse 5 A 250 V for digital I/O PCB
FU1 (A1P)		fuse T 5 A 250 V for PCB
K1A, K2A	*	high voltage smartgrid relay
K1M		contactor backup heater
K3M	*	contactor booster heater
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
M4S	*	valve kit
P1M		MMI display

Part n°		Description
PC (A15P)	*	power circuit
PHC1 (A4P)	*	optocoupler 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)		outlet water heat exchanger thermistor
R1T (A2P)	*	ambient sensor On/OFF thermostat
R1T (A14P)	*	ambient sensor user interface
R2T (A1P)		internal BUH sensor
R2T (A2P)	*	external sensor (floor or ambient)
R3T		refrigerant liquid side thermistor
R4T		inlet water thermistor
R5T	*	domestic hot water thermistor
R6T	*	external indoor or outdoor ambient thermistor
S1L	*	flow switch
S1S	#	preferential kWh rate PS contact
S1T		thermostat
S2S	#	electrical meter pulse input 1
S3S	#	electrical meter pulse input 2
S4S	#	smartgrid feed-in
S6S-S9S	*	digital power limitation inputs
S10S-S11S	#	low voltage smartgrid contact
SS1 (A4P)	*	selector switch
SW1~2 (A11P)		turn buttons
SW3~5 (A11P)		push button
TR1		power supply transformer
X4M	*	booster heater power supply terminal strip
X6M, X8M	#	power supply terminal strip client
X9M		backup heater power supply terminal strip
X10M	*	smartgrid power supply terminal strip
X*, X*A, X*Y		connector
X*M		terminal strip
Z*C		noise filter (ferrite core)

* : optional
# : field supply