EHV(H/X)-CB

NOTES TO GO THROUGH BEFORE STARTING THE UNIT

X1M : Main terminal
X2M : Field wiring terminal for AC
X5M : Field wiring terminal for DC
X6M, X7M : Backup heater terminal
X4M : Booster heater terminal

— - — - : Earth wiring
15 : Wire number 15
- - - - - - - - - - : Field supply
→ **/12.2 : Connection ** continues on page 12 column 2
① : Several wiring possibilities

: Option

: Wiring depending on model

: Not mounted in switchbox

: PCB

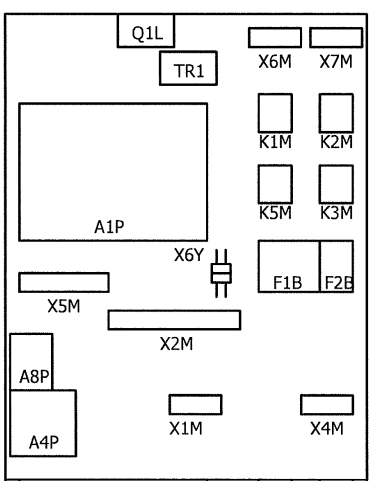
Backup heater configuration (Only for*9W):
- □ 3V3 (1N~, 230 V, 3 kW)
- □ 6V3 (1N~, 230 V, 6 kW)
- □ 6WN (3N~, 400 V, 6 kW)
- □ 9WN (3N~, 400 V, 9 kW)
- □ 6T1 (3~, 230 V, 6 kW)

User installed options:
- □ Bottom plate heater
- □ Domestic hot water tank
- □ Domestic hot water tank with solar connection
- □ Remote user interface
- □ Ext. indoor thermistor
- □ Ext. outdoor thermistor
- □ Digital I/O PCB
- □ Demand PCB
- □ Solar pump and control station

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 SWITCHBOX



LEGEND

* : Optional
(*) : Standard for *HV*, Optional for *HB*
: Field supply

A1P		: Main PCB
A2P		: User interface PCB
A3P	*	: Solar pumpstation PCB
A3P	*	: ON/OFF thermostat (PC=Power circuit)
A3P	*	: Heat pump convector
A4P	*	: Digital I/O PCB
A4P	*	: Receiver PCB (wireless ON/OFF thermostat)
A8P	*	: Demand PCB
B1L		: Flow sensor
BSK	*	: Solar pump station relay
DS1 (A8P)	*	: Dipswitch
E1H		: Backup heater element (1 kW)
E2H		: Backup heater element (2 kW)
E3H		: Backup heater element (3 kW)
E4H	*	: Booster heater (3 kW)
F1B		: Overcurrent fuse backup heater
F2B	*	: Overcurrent fuse booster heater
F1T		: Thermal fuse backup heater
F1U,F2U	*	: Fuse 5A 250V for digital I/O PCB
FU1		: Fuse T 6.3A 250 V for PCB
PHC1	*	: Optocoupler input circuit
K1M,K2M		: Contactor backup heater
K3M	*	: Contactor booster heater
K5M		: Safety contactor BUH (only *9W)
K*R		: 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
Q1DI, Q2DI	#	: Earth leakage circuit breaker
Q1L		: Thermal protector backup heater
Q2L	*	: Thermal protector booster heater
R1T		: Outlet water heat exchanger thermistor
R1T (A2P)		: Ambient sensor user interface
R1T (A3P)	*	: Ambient sensor ON/OFF thermostat
R2T		: Outlet backup heater thermistor
R2T	*	: 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
R1H (A3P)	*	: Humidity sensor
S1S	#	: Preferential kWh rate power supply contact
S2S	#	: Electrical meter pulse input 1
S3S	#	: Electrical meter pulse input 2
S6S-S9S	#	: Digital power limitation inputs
SS1 (A4P)	*	: Selector switch
TR1		: Power supply transformer
X*M		: Terminal strip
X*Y		: Connector