

NOTES to go through before starting the unit

- X1M : Main terminal
- X2M : Field wiring terminal for AC
- X5M : Field wiring terminal for DC
- _____

 : 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 switch box
- : PCB

- Backup heater power supply
- User installed options:
- Main LWT:
- Add LWT:
- ☐ 1N~, 230V, 3/6 kW

☐ 3N~, 4000V, 6/9 kW

☐ Remote user interface

☐ Ext. indoor thermistor

☐ Digital I/O PCB

☐ Demand PCB

☐ Brine low pressure switch

☐ ON/OFF thermostat (wired)

☐ ON/OFF thermostat (wireless)

☐ Ext. thermistor

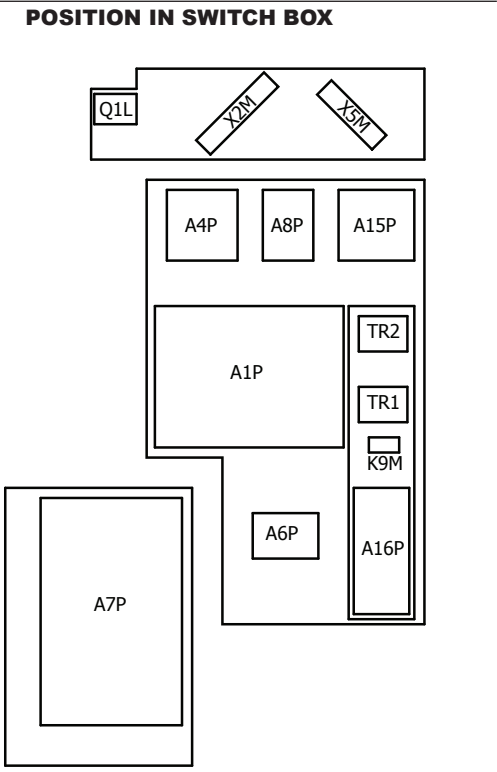
☐ Heat pump convector

☐ ON/OFF thermostat (wired)

☐ ON/OFF thermostat (wireless)

☐ Ext. thermistor

☐ Heat pump convector



LEGEND			
Part n°	Description	Part n°	Description
A1P	main PCB (hydro)	Q1L	thermal protector backup heater
A2P	* user interface PCB	Q1L (A7P)	thermal protector compressor
A3P	* ON/OFF thermostat	Q4L	# safety thermostat
A3P	* heat pump convector	R1T (A1P)	outlet water heat temperature sensor (LWC)
A4P	* digital I/O PCB	R1T (A2P)	* ambient sensor user interface
A4P	* receiver PCB (wireless ON/OFF thermostat, PC=power circuit)	R1T (A3P)	* ambient sensor ON/OFF thermostat
A6P	BUH control PCB	R1T (A7P)	thermistor (outdoor ambient)
A7P	inverter PCB	R2T (A1P)	after BUH temperature sensor
A8P	* demand PCB	R2T (A3P)	* external sensor (floor or ambient)
A11P	MMI main PCB	R2T (A7P)	thermistor (discharge)
A15P	LAN adapter	R3T (A1P)	refrigerant liquid temperature sensor
A16P	ACS digital I/O PCB	R3T (A7P)	thermistor (suction)
B1L	flow sensor	R4T (A1P)	inlet water temperature sensor (EWC)
B1PR	refrigerant pressure sensor	R4T (A7P)	thermistor (2 phase)
B1PW	water pressure sensor	R5T (A1P)	DHW tank temperature sensor
C2~C8	capacitor	R5T (A7P)	thermistor (brine entering temperature)
CN* (A4P)	* connector	R6T (A1P)	* external indoor ambient thermistor
CT*	* current sensor	R6T (A7P)	thermistor (brine low temperature)
DS1 (A8P)	* dipswitch	R8T (A1P)	DHW tank temperature sensor
E1H	backup heater element (1 kW)	R1H (A3P)	* humidity sensor
E2H	backup heater element (2 kW)	S1L	# low level switch
F1B	# overcurrent fuse	S1NPL	low pressure sensor (refrigerant)
F1T	thermal fuse backup heater	S1PH	high pressure switch
F1~2U (A4P)	* fuse (5 A, 250 V)	S1PL	# low brine pressure switch
F1U (A7P)	fuse (T, 6.3 A, 250 V)	S1S	# preferential kWh rate PS contact
F1U (A16P)	fuse (T, 1.5 A, 250 V)	S2S	# electrical meter pulse input 1
F2B	# overcurrent fuse compressor	S3S	# electrical meter pulse input 2
FU1 (A1P)	fuse (T, 6.3 A, 250 V)	S6~9S	# digital power limitation inputs
K*R (A1/4/7/16P)	relay on PCB	SS1 (A4P)	* selector switch
K1~6M (A6P)	BUH relay	TR1,TR2	power supply transformer
K9M	thermal protector BUH relay	V1~6D (A6P)	diode
L1R	reactor	X*H*	backup heater connector
M1C	motor (compressor)	X*M	terminal strip
M1P	main water supply pump	X*Y*	connector
M2P	# domestic hot water pump	Y1E	electronic expansion valve
M2S	# shut off valve	Y1S	Solenoid valve (4-way valve)
M3P	# drain pump	Z*C	noise filter (ferrite core)
M4P	brine pump	Z*F (A16P)	noise filter
M3S	3 way valve for floorheating/domestic hot water		
Q*DI	# earth leakage circuit breaker		

* : optional

: field supply