

NOTES TO GO THROUGH BEFORE STARTING THE UNIT

X1M : Main terminal
 X2M : Fieldwiring terminal for AC
 X3M : Fieldwiring terminal for DC

--- : Earth wiring
 - - - - : Field supply



: Option



: Wiring depending on model



: Not mounted in switchbox



: PCB

— **/12.2 : Connection ** continues on page 12 column 2



: Several wiring possibilities

User installed:

EKHTS200A = Domestic hot water tank 200l
 EKHTS260A = Domestic hot water tank 260l
 EKRTW = Room thermostat (Wired)
 EKRTTR = Room thermostat (Wireless)
 EKRTETS = External temperature sensor for EKRTTR
 EKRUHAHTA = Remote user interface
 EKRP1HBAA = Digital I/O PCB
 EKRP1AHTA = Demand PCB
 EKBPHTH16A = Bottom plate heater

Legend

* : included in option kit
 # : field supplied

A1P : Main PCB
 A2P : User interface PCB
 A3P : control PCB
 A4P : Inverter control PCB
 A5P : Inverter PCB
 A6P : Filter PCB
 A7P * : Digital I/O PCB
 A8P * : Demand PCB
 A9P : Service PCB
 A10P * : Thermostat PCB
 A11P * : Receiver PCB
 B1PH : High pressure sensor
 B1PL : Low pressure sensor
 B51-B54 (A4P) : Push button
 C1 : Capacitor
 C2-C3 : Filter capacitor
 C1-C3 (A4P) : PCB Capacitor
 DS1 (A*P) : Dipswitch
 E7H * : Bottom plate heater (only in combination with ERRQ* outdoor unit or ERSQ* outdoor unit with option EKBPHTH16A)
 E1HC : Crankcase heater
 F1U (A1P,A3P) : Fuse (T, 3.15A, 250V)
 F1U (A6P) : Fuse (T, 6.3A, 250V)
 F1U-F4U (A7P) * : Fuse (5A, 250V)
 F3U-F4U : Fuse (T, 6.3A, 250V)
 H1P-H7P (A9P) : PCB LED
 HAP (A*P) : PCB LED
 1PM1 : Integrated power module
 K1A : Interface relay
 K1E : Electronic expansion valve
 K2E : Electronic expansion valve
 K*R (A*P) : PCB Relay
 K1S * : 3 way valve
 K2S : 2 way valve
 M1C : Compressors
 M1F-M2F : Switchbox cooling fan
 M1P : DC inverter pump
 PC (A11P) * : Power circuit
 PHC1 : Optocoupler input circuit
 PS (A*P) : Switching power supply
 Q1DI-Q2DI # : Earth leakage protector
 Q2L : Thermal protector water piping
 R1-R2 (A4P) : Resistance
 R1L : Reactor
 R1H (EKRTTR) * : High voltage unit (Optional)
 R1T (EKRTW/R) * : Ambient sensor (Optional)
 R2T (EKHTS*) * : Domestic hot water thermistor (Optional)
 R2T (EKRTETS) * : External sensor (floor or ambient) (Optional)
 R3T : Liquid thermistor R410a
 R4T : Returning water thermistor
 R5T : Leaving water thermistor
 R6T : Discharge thermistor
 R7T : Liquid thermistor R413a
 R8T : Fin thermistor
 RC (A*P) : Receiver circuit
 S1PH : High pressure switch
 S1S # : benefit kWh rate power supply contact
 S3S # : Mixing station input 1
 S4S # : Mixing station input 2
 SS1 (A1P) : Selector switch (emergency)
 SS1 (A2P) : Selector switch (master slave)
 SS1 (A7P) * : Selector switch
 TC (A*P) : Transmitter circuit
 T1R-T2R (A*P) : Diode bridge
 T3R : Power module
 V1C-V12C : Ferrite core noise filter
 X1M-X3M : Terminal strip
 X*M (A*P) * : PCB terminal strip
 X1Y-X4Y : Connector
 Y1R : 4 way valve
 Z1F-Z5F (A*P) : Noise filter