




## NOTES TO GO THROUGH BEFORE STARTING THE UNIT

X1M : Main terminal  
 X2M : Field wiring terminal for high voltage  
 X3M : Field wiring terminal for low voltage

 : 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:

- \*KBPHTH16A\* = Bottom plate heater
- \*KBUH\* = Back up heater
- \*KHST\* = Domestic hot water tank
- \*KHWP\* = Domestic hot water tank with solar connection
- \*KRTW\* = Room thermostat (Wired)
- \*KRTR\* = Room thermostat (Wireless)
- \*KRTETS\* = External temperature sensor for \*KRTR
- \*KRUAHT\* = Remote user interface
- \*KRP1HBAA\* = Digital I/O PCB
- \*KRP1AHTA\* = Demand PCB
- \*KSRPS3\* = Solar pump and control station

## Legend

\* : included in option kit  
 # : field supplied

A1P : Main PCB  
 A2P : User interface PCB  
 A3P : control PCB  
 A4P : Inverter PCB  
 A5P : QA PCB  
 A6P : Filter PCB  
 A7P \* : Digital I/O PCB  
 A8P \* : Demand PCB  
 A9P \* : Solar pump station PCB  
 A10P \* : Thermostat PCB  
 A11P \* : Receiver PCB  
 B1PH : High pressure sensor  
 B1PL : Low pressure sensor  
 BSK \* : Solar pumpstation relay  
 C1 : Capacitor  
 C2-C4 : 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)  
 F1U (A1P,A3P) : Fuse (T, 3.15A, 250V)  
 F1U (A6P) : Fuse (T, 6.3A, 250V)  
 F1U-F2U (A7P) \* : Fuse (5A, 250V)  
 F3U-F4U : Fuse (T, 6.3A, 250V)  
 HAP (A\*P) : PCB LED  
 IPM1 : Integrated power module  
 K1A : Interface relay  
 K1E : Electronic expansion valve  
 K2E : Electronic expansion valve  
 K\*R (A\*P) : PCB Relay  
 K1S \* : 3 way valve  
 M1C : Compressors  
 M1F : 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 (A10P) \* : Humidity sensor  
 R1T (A10P) \* : Ambient sensor  
 R2T \* : Domestic hot water thermistor  
 R2T \* : External sensor (floor or ambient)  
 R3T : Liquid thermistor R410a  
 R4T : Returning water thermistor  
 R5T : Leaving water thermistor  
 R6T : Discharge thermistor  
 R7T : Liquid thermistor R134a  
 R8T : Fin thermistor  
 RC (A\*P) : Receiver circuit  
 S1PH : High pressure switch  
 S1S # : benefit kWh rate power supply contact  
 S3S # : Input multiple setpoint 1  
 S4S # : Input multiple setpoint 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-V7C : Ferrite core noise filter  
 X1M-X3M : Terminal strip  
 X\*M (A\*P) \* : PCB terminal strip  
 X4Y-X5Y : Connector  
 Y1R : 4 way valve  
 Z1F-Z5F (A\*P) : Noise filter