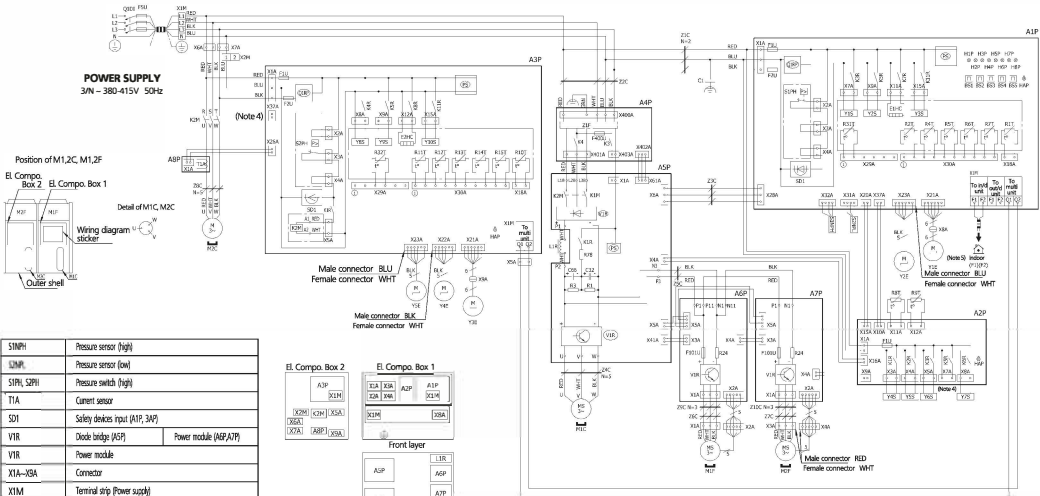


EMRQ8-12AB

Printed circuit board		
A1P-A1P	ASP: Main ASP: Sub 1 ASP: Sub 2 AMP: Main filter	ASP: Inverter AMP: APF Fan AMP: Current sensor
B1-B5	Push button switch (Main, set, return, test, reset)	
C1, C2, C6	Capacitor	
E1H, E2H	Carbonize heater (A1P, A3P)	
F1L, F2U	Fuse (I, 3.15A, 250V (A1P, A3P))	
F3U	Fuse (I, 3.15A, 250V (A3P))	
F10U	Fuse (BA, DC550V (AMP, A7P))	
F9U	Weld fuse	
G40U	Fuse (I, 6.3250V)	
H1P-H1P	Fluor lamp (Service monitor orange) R2P: Pressure tap—Ridgeline Malfunction detector—Light up	
H1P	Fluor lamp (Service monitor green) (A1P, A3P)	
I1H	Magnetic relay	
I1H	Magnetic relay	
J1M, J2M	Magnetic connector (MTC)	
K1	Magnetic connector (MTC)	
Magnetic relay		
K1R: Y16 (A3P)	K3R: for option (A3P)	
K1R: K2M (A3P)	K5R: Y16 (A3P)	
K1R: Y11	K6R: Y7	
K1R: Y11 (A1P)	K7R: Y11 (A1P)	
K1R: Y16 (A3P)	K8R: Z1MC (A3P)	
K1R: Y18	K11R: Y21 (A1P)	
K1R: Y21 (A1P)	K11R: Y15 (A3P)	
L1H	Pressure sensor	
M1C, M2C	Motor (Compressor)	
M1H, M1P	Motor Fan	
P1	Switching power supply (A1P, A3P)	
Q1A	Earth leakage breaker	
Q1P	Reverse phase detection circuit (A1P, A3P)	
R2H	Resistor (current sensor) (A3P, A7P)	
R1, R3	Resistor	
R7H	Resistor (current sensing)	
Inverter		
R11: AP (A1P)	R11: Section 1	
R21: HE gas 1	R11: Liquid	
R31: MTC Discharge	R101: Section 2	
R32: M2C Discharge	R111: HE gas 2	
R41: HE Gas 1	R121: HE Gas 1	
R51: Subcool HE gas 1	R131: Subcool HE gas 2	
R61: Subcool HE liq	R141: Liquid 2	
R71: HE Liquid 1	R151: HE Liquid 2	
R11-R111 R21-R211		



S1PH	Pressure sensor (high)	
S2PH	Pressure sensor (low)	
S1PH, S2PH	Pressure switch (high)	
T1A	Current sensor	
S01	Safety device input (A1P, A3P)	Power module (A6P/A7P)
V1R	Diode bridge (A5P)	
V1R	Power module	
X1A-X3A	Connector	
X1M	Terminal strip (Power supply)	
X1M	Terminal strip (Control) (A1P/A3P)	
J2M	Terminal strip (Relay)	
Y1E	Electronic expansion valve (Main 1)	
Y2E	Electronic expansion valve (Subcool 1)	
Y3E	Electronic expansion valve (Main 2)	
Y4E	Electronic expansion valve (Charge)	
Y5E	Electronic expansion valve (Subcool 2)	
Solenoid valve		
Y1S: RM1G	Y5S: RM1T	
Y2S: 4 way valve (HE 1)	Y5S: RM1D	
Y3S: RM1L	Y5S: 4 way valve (dip)	
Y4S: hot gas	Y5S: 4 way valve (HE 2)	
Y5S: EV Bypass 1	Y10S: EV Bypass 2	
Z1-Z10L	Noise filter (hot/cold)	
Z1F	Noise filter (high surge absorber)	
Connector for optional parts		
X3A	Operation output (A2P)	
X3A	Power supply (Adaptor) (A2P)	
X31A	Power supply (Adaptor) (A3P)	

Notes

- This wiring diagram only applies to the outdoor unit.
- Field wiring
- Terminal strip : Connector
Terminal
- When using the option adapter, refer to the installation manual
- Refer to the installation manual for connection wiring to indoor - outdoor unit transmission F1-F2 and how to use BS1-B5S
- Do not operate the unit by short-circuiting any protection device S1PH, S2PH.
- BLK = Black RED = Red YLW = Yellow WHT = White PNK = Pink
BRN = Brown GRY = Grey GRN = Green ORG = Orange BLU = Blue