



KEY	COMPONENT
A194	CONTROL A2L
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR, BLOWER
B4	MOTOR, OUTDOOR FAN 1
B5	MOTOR, OUTDOOR FAN 2
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
CB8	CIRCUIT BREAKER T1
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
S7	SWITCH, LIMIT HI PRESS COMP 2
S11	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1
K1-1	CONTACTOR, COMPRESSOR 1
K2-1	CONTACTOR, COMPRESSOR 2
K10-1,2,3	RELAY, OUTDOOR FAN
K36-1,2	RELAY, HEAT BLOWER, HIGH SPEED
K37-1	CONTACTOR, BLOWER, HIGH SPEED
K186	RELAY, COOL BLOWER, HIGH SPEED
K3-1	CONTACTOR, BLOWER, LOW SPEED
K68-1	RELAY, DEFROST, CONTROL
K8-1,2,3	RELAY, HEATPUMP, CONTROL
L34	SOLENOID, COMPRESSOR 1
R55	RESISTOR, VFD LOADING, A96
RT58	SENSOR, REFRIGERANT LEAK DETECTION
S4	SWITCH, LIMIT HI PRESS COMP 1
S84	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 2
S87	SWITCH, LOW PRESS, COMP 1
S88	SWITCH, LOW PRESS, COMP 2
S9	SWITCH, DEFROST, COMP 2
T1	TRANSFORMER, CONTROL 24VAC
TB13	TERMINAL STRIP, POWER DISTRIBUTION
CMC1	DEFROST CONTROL COMP1,2 & C.MONITOR COMP 1
CMC2	COMPRESSOR MONITORY CONTROL COMP 2
T18	TRANSFORMER - CMC1 & CMC2, L1, L2 24VAC
CB18	SWITCH, BREAKER T18
DL50	TIMER, ON-DELAY, BLOWER CONTROL
S6	SWITCH, DEFROST, COMP 1
S104	SWITCH, DEFROST TERMINATION, COMP 2

J/P	JACK/PLUG DESCRIPTION
J2	JACK, HEAT
P35/J35	UNIT TEST
P36/J36	OD FAN POWER EXTENSION
P6	A2L UNIT CONTROL

◊ DENOTES OPTIONAL COMPONENTS  
 — LINE VOLTAGE FIELD INSTALLED

- ⚠ NOTE - FOR USE WITH COPPER CONDUCTORS ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.
- ⚠ J2 IS USED ON ZGD UNITS ONLY OR FIELD INSTALLED
- ⚠ S48 OR CB8 MAY BE USED
- ⚠ JUMPER WHEN S11 AND S84 ARE NOT USED
- ⚠ 2-SPEED BLOWER CONTROL
- ⚠ REMOVE JUMPER WHEN INSTALLING FLOAT SWITCH

NOTE - IF ANY WIRE IN THIS APPLIANCE IS REPLACED IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, TERMINATION AND INSULATION THICKNESS

WARNING - ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING.

2026/06
DIAGRAM
06/26

538557-02

**HEATPUMP-MSAV-VFD**

ZHD,ZHD-120

SECTION B

Supersedes  
538304-01
New Form No.  
538557-02