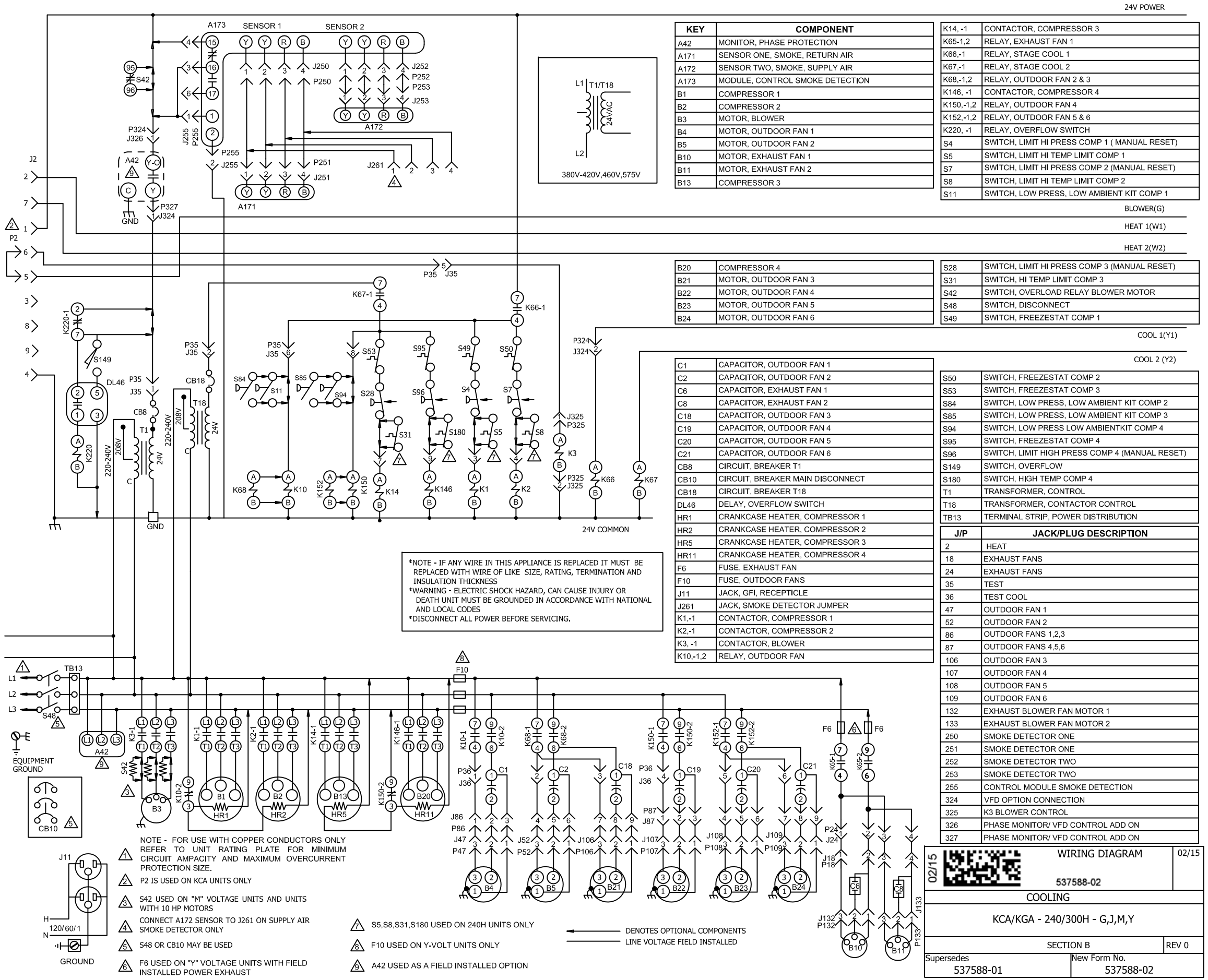

KEY	COMPONENT
A42	MONITOR, PHASE PROTECTION
A171	SENSOR ONE, SMOKE, RETURN AIR
A172	SENSOR TWO, SMOKE, SUPPLY AIR
A173	MODULE, CONTROL SMOKE DETECTION
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR, BLOWER
B4	MOTOR, OUTDOOR FAN 1
B5	MOTOR, OUTDOOR FAN 2
B10	MOTOR, EXHAUST FAN 1
B11	MOTOR, EXHAUST FAN 2
B13	COMPRESSOR 3
B20	COMPRESSOR 4
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR FAN 4
B23	MOTOR, OUTDOOR FAN 5
B24	MOTOR, OUTDOOR FAN 6
C1	CAPACITOR, OUTDOOR FAN 1
C2	CAPACITOR, OUTDOOR FAN 2
C6	CAPACITOR, EXHAUST FAN 1
C8	CAPACITOR, EXHAUST FAN 2
C18	CAPACITOR, OUTDOOR FAN 3
C19	CAPACITOR, OUTDOOR FAN 4
C20	CAPACITOR, OUTDOOR FAN 5
C21	CAPACITOR, OUTDOOR FAN 6
CB8	CIRCUIT, BREAKER T1
CB10	CIRCUIT, BREAKER MAIN DISCONNECT
CB18	CIRCUIT, BREAKER T18
DL46	DELAY, OVERFLOW SWITCH
HR1	CRANKCASE HEATER, COMPRESSOR 1
HR2	CRANKCASE HEATER, COMPRESSOR 2
HR5	CRANKCASE HEATER, COMPRESSOR 3
HR11	CRANKCASE HEATER, COMPRESSOR 4
F6	FUSE, EXHAUST FAN
F10	FUSE, OUTDOOR FANS
J11	JACK, GFI, RECEPTICLE
J261	JACK, SMOKE DETECTOR JUMPER
K1,-1	CONTACTOR, COMPRESSOR 1
K2,-1	CONTACTOR, COMPRESSOR 2
K3, -1	CONTACTOR, BLOWER
K10,-1,2	RELAY, OUTDOOR FAN
K14, -1	CONTACTOR, COMPRESSOR 3
K65-1,2	RELAY, EXHAUST FAN 1
K66,-1	RELAY, STAGE COOL 1
K67,-1	RELAY, STAGE COOL 2
K68,-1,2	RELAY, OUTDOOR FAN 2 & 3
K146, -1	CONTACTOR, COMPRESSOR 4
K150,-1,2	RELAY, OUTDOOR FAN 4
K152,-1,2	RELAY, OUTDOOR FAN 5 & 6
K220, -1	RELAY, OVERFLOW SWITCH
S4	SWITCH, LIMIT HI PRESS COMP 1 (MANUAL RESET)
S5	SWITCH, LIMIT HI TEMP LIMIT COMP 1
S7	SWITCH, LIMIT HI PRESS COMP 2 (MANUAL RESET)
S8	SWITCH, LIMIT HI TEMP LIMIT COMP 2
S11	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 1
S28	SWITCH, LIMIT HI PRESS COMP 3 (MANUAL RESET)
S31	SWITCH, HI TEMP LIMIT COMP 3
S42	SWITCH, OVERLOAD RELAY BLOWER MOTOR
S48	SWITCH, DISCONNECT
S49	SWITCH, FREEZESTAT COMP 1
S50	SWITCH, FREEZESTAT COMP 2
S53	SWITCH, FREEZESTAT COMP 3
S84	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 2
S85	SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3
S94	SWITCH, LOW PRESS LOW AMBIENTKIT COMP 4
S95	SWITCH, FREEZESTAT COMP 4
S96	SWITCH, LIMIT HIGH PRESS COMP 4 (MANUAL RESET)
S149	SWITCH, OVERFLOW
S180	SWITCH, HIGH TEMP COMP 4
T1	TRANSFORMER, CONTROL
T18	TRANSFORMER, CONTACTOR CONTROL
TB13	TERMINAL STRIP, POWER DISTRIBUTION

J/P	JACK/PLUG DESCRIPTION
2	HEAT
18	EXHAUST FANS
24	EXHAUST FANS
35	TEST
36	TEST COOL
47	OUTDOOR FAN 1
52	OUTDOOR FAN 2
86	OUTDOOR FANS 1,2,3
87	OUTDOOR FANS 4,5,6
106	OUTDOOR FAN 3
107	OUTDOOR FAN 4
108	OUTDOOR FAN 5
109	OUTDOOR FAN 6
132	EXHAUST BLOWER FAN MOTOR 1
133	EXHAUST BLOWER FAN MOTOR 2
250	SMOKE DETECTOR ONE
251	SMOKE DETECTOR ONE
252	SMOKE DETECTOR TWO
253	SMOKE DETECTOR TWO
255	CONTROL MODULE SMOKE DETECTION
324	VFD OPTION CONNECTION
325	K3 BLOWER CONTROL
326	PHASE MONITOR/ VFD CONTROL ADD ON
327	PHASE MONITOR/ VFD CONTROL ADD ON

*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.

1. NOTE - FOR USE WITH COPPER CONDUCTORS ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.
2. P2 IS USED ON KCA UNITS ONLY
3. S42 USED ON "M" VOLTAGE UNITS AND UNITS WITH 10 HP MOTORS
4. CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY
5. S48 OR CB10 MAY BE USED
6. F6 USED ON "Y" VOLTAGE UNITS WITH FIELD INSTALLED POWER EXHAUST
7. S5,S8,S31,S180 USED ON 240H UNITS ONLY
8. F10 USED ON Y-VOLT UNITS ONLY
9. A42 USED AS A FIELD INSTALLED OPTION

DENOTES OPTIONAL COMPONENTS
LINE VOLTAGE FIELD INSTALLED

02/15

WIRING DIAGRAM 537588-02 02/15

COOLING

KCA/KGA - 240/300H - G,J,M,Y

SECTION B REV 0

Supersedes 537588-01 | New Form No. 537588-02