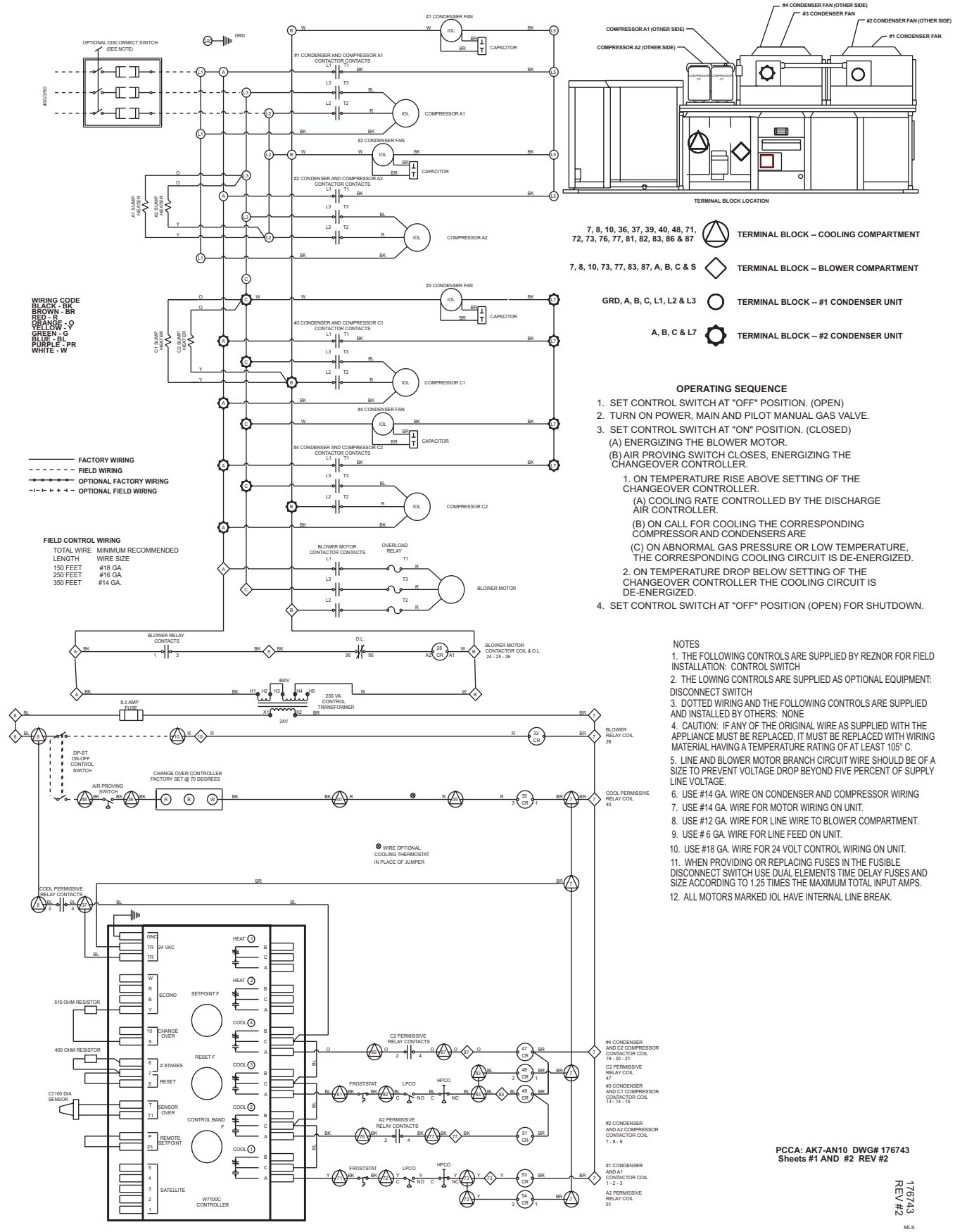
Engineering/Application Information (cont'd)

Typical Wiring Diagram for Model PCCA



OPERATING SEQUENCE

1. SET CONTROL SWITCH AT "OFF" POSITION. (OPEN)
2. TURN ON POWER, MAIN AND PILOT MANUAL GAS VALVE.
3. SET CONTROL SWITCH AT "ON" POSITION. (CLOSED)
   (A) ENERGIZING THE BLOWER MOTOR.
   (B) AIR PROVING SWITCH CLOSES, ENERGIZING THE CHANGEOVER CONTROLLER.
   1. ON TEMPERATURE RISE ABOVE SETTING OF THE CHANGEOVER CONTROLLER.
      (A) COOLING RATE CONTROLLED BY THE DISCHARGE AIR CONTROLLER.
      (B) ON CALL FOR COOLING THE CORRESPONDING COMPRESSOR AND CONDENSERS ARE
      (C) ON ABNORMAL GAS PRESSURE OR LOW TEMPERATURE, THE CORRESPONDING COOLING CIRCUIT IS DE-ENERGIZED.
   2. ON TEMPERATURE DROP BELOW SETTING OF THE CHANGEOVER CONTROLLER THE COOLING CIRCUIT IS DE-ENERGIZED.
4. SET CONTROL SWITCH AT "OFF" POSITION (OPEN) FOR SHUTDOWN.

NOTES

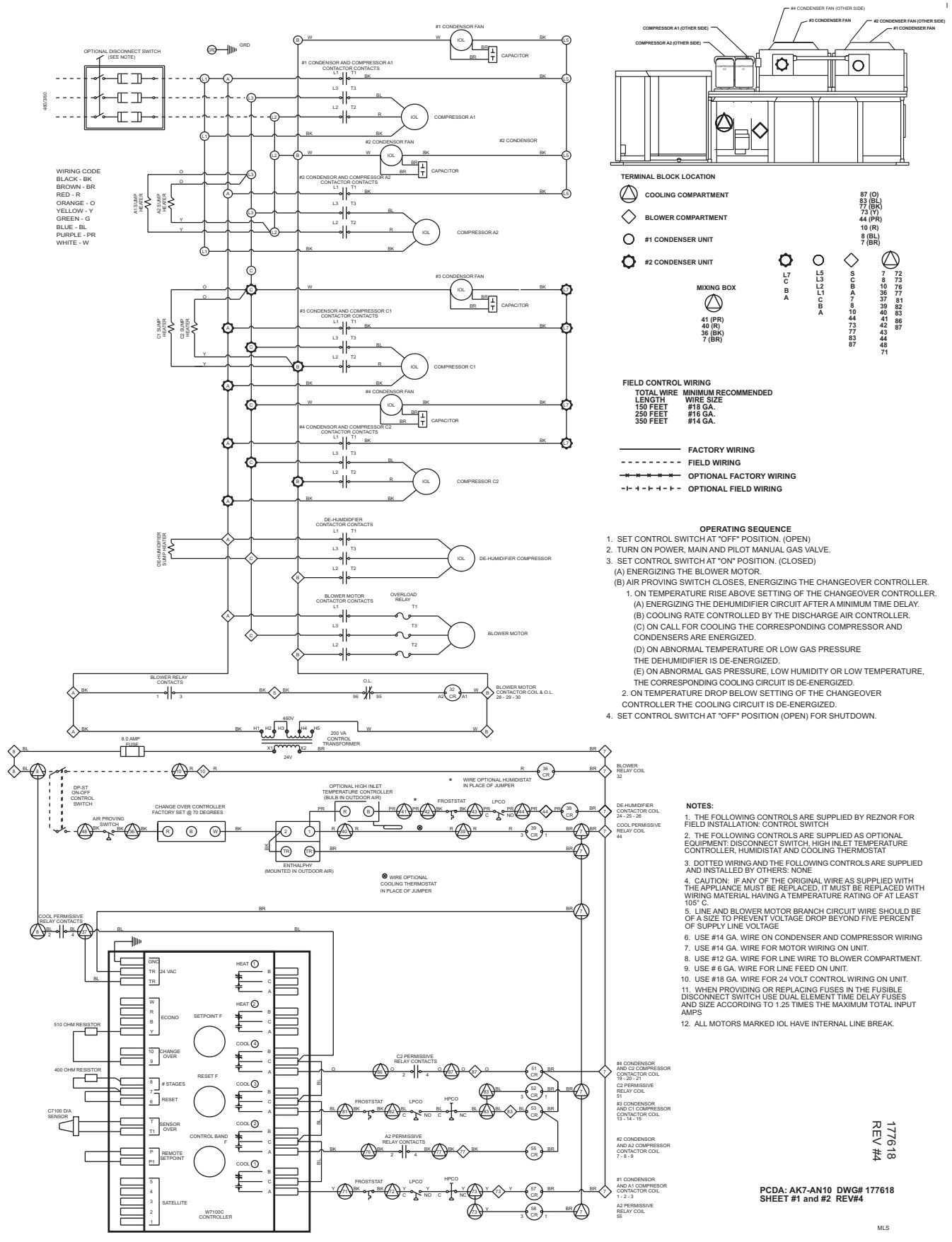
1. THE FOLLOWING CONTROLS ARE SUPPLIED BY REZNOR FOR FIELD INSTALLATION: CONTROL SWITCH
2. THE LOWING CONTROLS ARE SUPPLIED AS OPTIONAL EQUIPMENT: DISCONNECT SWITCH
3. DOTTED WIRING AND THE FOLLOWING CONTROLS ARE SUPPLIED AND INSTALLED BY OTHERS: NONE
4. CAUTION: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C.
5. LINE AND BLOWER MOTOR BRANCH CIRCUIT WIRE SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROP BEYOND FIVE PERCENT OF SUPPLY LINE VOLTAGE.
6. USE #14 GA. WIRE ON CONDENSER AND COMPRESSOR WIRING
7. USE #14 GA. WIRE FOR MOTOR WIRING ON UNIT.
8. USE #12 GA. WIRE FOR LINE WIRE TO BLOWER COMPARTMENT.
9. USE # 6 GA. WIRE FOR LINE FEED ON UNIT.
10. USE #18 GA. WIRE FOR 24 VOLT CONTROL WIRING ON UNIT.
11. WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
12. ALL MOTORS MARKED IOL HAVE INTERNAL LINE BREAK.

PCCA: AK7-AN10 DWG# 176743
Sheets #1 AND #2 REV #2

176743
REV #2
MLS

Engineering/Application Information (cont'd)

Typical Wiring Diagram for Model PCDA



TERMINAL BLOCK LOCATION

- COOLING COMPARTMENT
- BLOWER COMPARTMENT
- #1 CONDENSER UNIT
- #2 CONDENSER UNIT

MIXING BOX

41 (PR)
40 (R)
36 (BK)
7 (BR)

87 (O)
83 (BL)
77 (BK)
73 (Y)
44 (PR)
10 (R)
8 (BL)
7 (BR)

L7 C B A

L5 L3 L2 L1 C B A

S C B A 7 8 10 44 73 77 83 87

7 8 10 36 37 39 40 41 42 43 44 48 71

72 73 76 77 81 82 83 86 87

FIELD CONTROL WIRING

TOTAL WIRE LENGTH	MINIMUM RECOMMENDED WIRE SIZE
150 FEET	#18 GA.
250 FEET	#16 GA.
350 FEET	#14 GA.

- FACTORY WIRING
- FIELD WIRING
- OPTIONAL FACTORY WIRING
- OPTIONAL FIELD WIRING

OPERATING SEQUENCE

1. SET CONTROL SWITCH AT "OFF" POSITION. (OPEN)
2. TURN ON POWER, MAIN AND PILOT MANUAL GAS VALVE.
3. SET CONTROL SWITCH AT "ON" POSITION. (CLOSED)
   (A) ENERGIZING THE BLOWER MOTOR.
   (B) AIR PROVING SWITCH CLOSES, ENERGIZING THE CHANGEOVER CONTROLLER.
      1. ON TEMPERATURE RISE ABOVE SETTING OF THE CHANGEOVER CONTROLLER.
         (A) ENERGIZING THE DEHUMIDIFIER CIRCUIT AFTER A MINIMUM TIME DELAY.
         (B) COOLING RATE CONTROLLED BY THE DISCHARGE AIR CONTROLLER.
         (C) ON CALL FOR COOLING THE CORRESPONDING COMPRESSOR AND CONDENSERS ARE ENERGIZED.
         (D) ON ABNORMAL TEMPERATURE OR LOW GAS PRESSURE THE DEHUMIDIFIER IS DE-ENERGIZED.
         (E) ON ABNORMAL GAS PRESSURE, LOW HUMIDITY OR LOW TEMPERATURE, THE CORRESPONDING COOLING CIRCUIT IS DE-ENERGIZED.
      2. ON TEMPERATURE DROP BELOW SETTING OF THE CHANGEOVER CONTROLLER THE COOLING CIRCUIT IS DE-ENERGIZED.
4. SET CONTROL SWITCH AT "OFF" POSITION (OPEN) FOR SHUTDOWN.

NOTES:

1. THE FOLLOWING CONTROLS ARE SUPPLIED BY REZNOR FOR FIELD INSTALLATION: CONTROL SWITCH
2. THE FOLLOWING CONTROLS ARE SUPPLIED AS OPTIONAL EQUIPMENT: DISCONNECT SWITCH, HIGH INLET TEMPERATURE CONTROLLER, HUMIDISTAT AND COOLING THERMOSTAT
3. DOTTED WIRING AND THE FOLLOWING CONTROLS ARE SUPPLIED AND INSTALLED BY OTHERS: NONE
4. CAUTION: IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C.
5. LINE AND BLOWER MOTOR BRANCH CIRCUIT WIRE SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROP BEYOND FIVE PERCENT OF SUPPLY LINE VOLTAGE
6. USE #14 GA. WIRE ON CONDENSER AND COMPRESSOR WIRING
7. USE #14 GA. WIRE FOR MOTOR WIRING ON UNIT.
8. USE #12 GA. WIRE FOR LINE WIRE TO BLOWER COMPARTMENT.
9. USE # 6 GA. WIRE FOR LINE FEED ON UNIT.
10. USE #18 GA. WIRE FOR 24 VOLT CONTROL WIRING ON UNIT.
11. WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENT TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS
12. ALL MOTORS MARKED IOL HAVE INTERNAL LINE BREAK.

177618 REV #4

PCDA: AK7-AN10 DWG# 177618
SHEET #1 and #2 REV#4

MLS