

TITLE: TRC I15/60/I, 208-240/60/I, 265/60/I, DXM2 UNIT-MOUNTED ACO

PCN: 22-0039 **DATE:** 4/19/22

DRAWING NO. 96B04I5N3I **REV** -

LEGEND

- Factory Low voltage Wiring
- Factory Line Voltage Wiring
- Field Low voltage Wiring
- Field Line voltage Wiring
- Printed Circuit Trace
- Optional Wiring
- Optional Block
- Capacitor
- Circuit Breaker
- Condensate Pan
- Control Board Jumper
- FUSE
- Ground
- High Pressure Switch
- LED
- Low Pressure Switch
- Mate-N-Lock
- Multi Splice Connector
- Optional Overload
- Relay contacts - N.C.
- Relay contacts - N.O.
- Relay / Contactor Coil
- Solenoid Coil
- Splice Cap
- Temperature Switch
- Thermistor
- Wire Nut

NOTES:

- Compressor and Blower Motor thermally protected internally.
- All wiring to the unit must comply with NEC and local codes low voltage wiring shall be Class 2 or equivalent.
- Field Use Only: Transformer wiring is voltage sensitive. Use layout corresponding to the unit voltage.
- LT1 provides low temperature protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.
- Typical heat pump thermostat wiring shown. Refer to thermostat IOM for wiring to the unit. T-Stat wiring must be "Class 1" and voltage rating equal to or greater than unit supply voltage.
- 24V Alarm signal shown. For Dry Alarm contact between AL1 & AL2, cut JW1 for CXM/DXM Gen2 or JW4 DXM.
- Transformer Secondary Ground via control board standoffs and/or Common to Control Box.

BM11. Blower motor is factory wired for high & low speeds. For any other combination of speeds, at the motor, attach the black wire to the higher of the two desired speed taps and the red wire to the lower of the two desired speed taps.

NEUTRAL ON 265 V SYSTEM

Refer to Data Plate Power Supply

Use copper conductors only.

SEE NOTE 2

COMPRESSOR

BLK TO BM (HIGH)

RED TO FAN SPEED RELAY (NC)

RED TO BM (LOW)

FSS LOCATED IN COMPRESSOR SECTION SEE NOTE BM9.

LOW FAN DEFAULT POSITION

CONTROL BOX LAYOUT

COMPRESSOR CAPACITOR

START ASSIST CAPACITOR

BLOWER RELAY 2 (HIGH)

CXM

POWER DISTRIBUTION BLOCK

GROUND

TRANSFORMER

COMPRESSOR RELAY

BLOWER RELAY 1 (LOW)

ACO Automatic Change Over
AL Alarm Relay Contacts
ATS Air Temperature Sensor
BM Blower Motor
BMC Blower Motor Capacitor
BR Blower Relay
CAP Capacitor
CB Circuit Breaker
CC Compressor Contactor
CDT Compressor Discharge Temperature
CO Condensate Overflow Sensor
CR Compressor Relay
CRC Compressor Run Capacitor
CS Current Sensor
DHW Domestic Hot Water
DM Damper Motor
DTS Discharge Temperature Switch
EEV Electronic Expansion Valve
EHC Electronic Heat Contactor
ES End Switch
ETC Electronic Temperature Control
EWT Entering Water Temp Sensor
FSR Fan Speed Relay
FSS Fan Speed Switch
HP High Pressure Switch
HPWS High Pressure Water Switch
HR Heating Relay
JW Jumper Wire
LAT Leaving Air Temperature
LOR Lock Out Relay
LP Low Pressure Switch
LT1 Sensor, low temp protection, water coil
LT2 Sensor, low temp protection, air coil
LWT Leaving Water Temp Sensor
MCO Manual Change Over
MOD Modulating Water Valve
MS Manual Starter
MSC Multi Splice Connector
MWV Motorized Water Valve
NLL Night Low Limit Switch
PDB Power Distribution Block
POT Potentiometer
P1 Field Wiring Terminal Block
PR Pump Relay
RAS Return Air Sensor
RVS Reversing Valve Solenoid
SAC Start Assist Capacitor
SAS Supply Air Sensor
TB Terminal Block
TRANS Transformer
UMT Unit Mounted Thermostat
VFD Variable Frequency Drive
VSP Variable Speed Pump
WSTAT Water Stat

Y Compressor
O Cooling
G Fan
R 24 VAC
C Common
XI Alarm

Y1 1
Y2 2
W1 3
O/W2 4
G 5
R 6
C 7
AL1 8

ALARM RELAY

SEE NOTE 6 JW1
AL2 DRY

DXM2 Microprocessor Control Logic

TEST

K1 RELAY GRY
K2 RELAY NC
COM NO

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P7 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P8 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P9 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P10 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P11 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P12 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P13 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P14 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P15 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P16 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P17 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15 5 GRY
LT16 6 GRY
LT27 7 VIO
LT28 8 VIO
RV9 9 BRN
ORG 10
YEL 11
YEL 12
CO 12

P18 12V DC IN OUT Gnd NC

HP1 1 RED
HP2 2 RED
LP3 3 BLU
LP4 4 BLU
LT15</