

TITLE: TRC IIS/60/I, 208-240/60/I, DXM2 REM-MOUNTED ACO

PCN: 22-0039 **DATE:** 01/27/22

DRAWING NO. 96B04I5N32 **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

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 Heating Relay
HR 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

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.

Refer to Disconnect box for optional power supply connection

208/240V SEE NOTE 3.

24V CB

YEL BLU

240V 208V BLK COM BLK

0V

See Note 7.

G/Y

Compressor

YEL BLU

P1 Y1 1 Y2 2 W1 3 O/W 4 G 5 R 6 C 7 AL1 8

P2 AL2 R NSB C ESD OVR H A

P3 R NO1 NC1 COM NO2 NC2 COM R

P4 Gnd B+ A+ 24V

P5

P6 CCG BRN CC

P7 EH1 EH2

P8 12V DC IN OUT Gnd NC

P9 T5 T6 T4 T3 T2 T1

P10

P11 A0-1 Gnd A0-2

P12

P13 A0-1 P13 PWMO-10V

P14 A0-2 P14 10V-PWM

TEST

K1 RELAY K2 RELAY

COM NC COM NO

GY NC NO

RED BLK

FSS LOCATED IN COMPRESSOR SECTION SEE NOTE BM9.

LOW FAN DEFAULT POSITION

BLK TO BM (HIGH)

RED TO FAN SPEED RELAY (NC)

RED TO BM (LOW)

FSS

SEE NOTE BM11.

COMPRESSOR CAPACITOR START ASSIST CAPACITOR

DXM

POWER DISTRIBUTION BLOCK

GROUND

TRANSFORMER

COMPRESSOR RELAY

Control Box Layout

BLOWER CAPACITOR

* NIGHT LOW LIMIT SWITCH OPTION

RED R

NLL WHT OVR

* MWV + ES AND HPWS OPTION

G/Y C

P3 NO2 BLK

CCG

COMPR RELAY CC

BRN CR

RED RED

HPWS HP

* CORD CONNECTION OPTION

208V

115V

* DAMPER MOTOR OPTION

MSC2(1) MSC2(2)

DM

DXM (C)

* PUMP OPTION

BLU YEL

PUMP

* FIELD INSTALLED TIME CLOCK OPTION

TIME CLOCK

CLOSED=UNOCCUPIED

DXM P2

AL2 R NSB C ESD OVR H A