


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

PCN22-0039

DATE4/19/22



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

ACOAutomatic Change Over

ALAlarm Relay Contacts

ATSAir Temperature Sensor

BMBlower Motor

BMCBlower Motor Capacitor

BRBlower Relay

CAPCapacitor

CBcircuit Breaker

CCCompressor Contactor

CDTCompressor Discharge Temperature

COCondensate Overflow Sensor

CRCompressor Relay

CRCCompressor Run Capacitor

CSCurrent Sensor

DHWDomestic Hot Water

DMDamper Motor

DTSDischarge Temperature Switch

EEVElectronic Expansion Valve

EHCElectronic Heat Contactor

ESEnd Switch

ETCElectronic Temperature Control

EWTEntering Water Temp Sensor

FSRFan Speed Relay

FSSFan Speed Switch

HPHigh Pressure Switch

HPWShigh Pressure Water Switch

HRHeating Relay

JWJumper Wire

LATLeaving Air Temperature

LORLock Out Relay

LPLow Pressure Switch

LT1Sensor, low temp protection, water coil

LT2Sensor, low temp protection, air coil

LWTLeaving Water Temp Sensor

MCOManual Change Over

MODModulating Water Valve

MSManual Starter

MSCMulti Splice Connector

MWVMotorized Water Valve

NLLNight Low Limit Switch

PDBPower Distribution Block

POTPotentiometer

P1Field Wiring Terminal Block

PRPump Relay

RASReturn Air Sensor

RVSReversing Valve Solenoid

SACStart Assist Capacitor

SASSupply Air Sensor

TBTerminal Block

TRANSTransformer

UMTUnit Mounted Thermostat

VFDVariable Frequency Drive

VSPVariable Speed Pump

WSTATWater Stat

NOTES:

1. Compressor and Blower Motor thermally protected internally.

2. All wiring to the unit must comply with NEC and local codes low voltage wiring shall be Class 2 or equivalent.

3. Field Use Only: Transformer wiring is voltage sensitive. Use layout corresponding to the unit voltage.

4. LT1 provides low temperature protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.

5. 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.

6. 24V Alarm signal shown. For Dry Alarm contact between AL1 & AL2, cut JW1 for CXM/DXM Gen2 or JW4 DXM.

7. 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

208/240V

SEE NOTE 3.

240V

208V BLK

0V

COM BLK

COMPRESSOR

YEL

RED

BLK

BLK

BLU

RED

YEL

CAP

BRN

AUX

BLK

RED

COM

BM

SEE NOTE BM11.

FSS

LOW FAN DEFAULT POSITION

BLK TO BM (HIGH)

RED TO FAN SPEED RELAY (NC)

RED TO BM (LOW)

FSS LOCATED IN COMPRESSOR SECTION SEE NOTE BM9.

BLOWER CAPACITOR

COMPRESSOR CAPACITOR

START ASSIST CAPACITOR

BLOWER RELAY 2 (HIGH)

CXM

POWER DISTRIBUTION BLOCK

GROUND

TRANSFORMER

COMPRESSOR RELAY

BLOWER RELAY 1 (LOW)

Control Box Layout

\* FIELD INSTALLED TIME CLOCK OPTION

DXM P2

AL2

R

NSB

C

ESD

OVR

H

A

TIME CLOCK

CLOSED=UNOCCUPIED

\* NIGHT LOW LIMIT SWITCH OPTION

RED—R

NLL

WHT—OVR

115V

SEE NOTE 3.

24V

115V BLK

0V

COM BLK

265V

SEE NOTE 3.

24V

265V BLK

0V

COM BLK

\* MWV + ES AND HPWS OPTION

P3 NO2

BLK

MWV

CCG

COMPR RELAY

CC

RED

ES

RED

HPWS

RED

HP

RED

HP1

2

RED

RED

\* CORD CONNECTION OPTION

208V

(RIBBED/WHIT)

(GRN)

(PLAIN BLK)

115V

(RIBBED/WHIT)

(GRN)

(PLAIN BLK)

\* DAMPER MOTOR OPTION

MSC2(1)

MSC2(2)

DM

RED

NC1

ACC1

REL1

NC2

ACC2

REL2

COM

R

P3

DXM (C)

\* PUMP OPTION

2

L1

6

L2

4

T1

8

T2

BLU

YEL

PUMP

Compressor

Y

O

G

R

C

X

Typical Heat Pump T-stat SEE NOTE 5

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

AL2

R

NSB

C

ESD

OVR

H

A

P3

NO1

NC1

COM

NO2

NC2

ACC2

REL2

COM

R

P1

Y1

Y2

W1

O/W2

G

R

C

AL1

<