

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 / Blower Contactor

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

EWI

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

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.

MOD1. For Modulating Water Valve option, place jumper on 0-10V pins on P14.

MOD2. For Modulating Water Valve option, ensure actuator direction switch is set as shown. See Manual for Control Wiring to the unit.

SEE NOTE 3

277V

Trans

BLU

C

BLK

L1

COM

BLK

L2

24V

YEL

R

DISCONNECT

OPTIONAL

BREAKER* OPTIONAL

"G" (208-230) VOLTAGE

ON

OFF

BREAKER* OPTIONAL

"E" (265) VOLTAGE

ON

OFF

GROUND

Power Supply

Refer to Data Plate

Use Copper Conductors Only

See Note 2

NEUTRAL ON 265V SYSTEM

(CONNECT) (SERVICE TOOL)

RIB RELAY OPTION

(09-18 ONLY)

CCG

BRN

MSC

WHT/ YEL

YEL

CC

MSC

WHT/ YEL

RIB COIL

DAMPER OPTION

ORG

DM

YEL

2-PIN

1

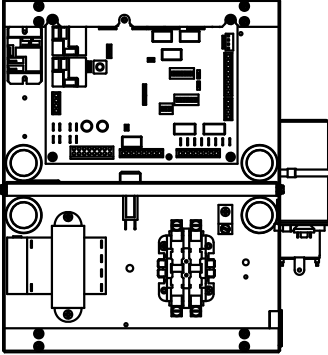
2

ORG

YEL

CC

CONTROL BOX LAYOUT



TSTAT ACO

(L C R G O W1 Y2 Y)

TSTAT MCO

(L C R G O W1 G2 Y)

CO

YEL

9-PIN Plug

9 8 5 1 6 4 7 3 2

9-PIN Plug

9 8 5 1 6 4 7 3 2

CHASSIS BRACKET

G/Y

BLK

RED

STRAIN RELIEF

CHASSIS BRACKET

SEE NOTE 3

208/240V

Trans

BLU

COM

BLK

24V

YEL

COMPRESSOR

24-36

SEE NOTE 1

SEE NOTE 7

G/Y

AL1

AL2

DRY

SEE NOTE 6

JW1

DXM2 Microprocessor Control Logic

S3 DIP SWITCH PACKAGE

OFF ON

COMM:SLAVE/MASTER

HWG:NORM/TEST

HWG SP:125/150

HWG-DISABLE/ENABLE

UPS: Disable/Enable

Unit Stage: 2/1

Tstat: Heat Cool/Heat Pump

RV on B/RV on O

Dehumid/Normal

DDC Output:DDC/Normal

Boilerless: Enable/Disable

Boilerless: 40°F/50°F

DIP SWITCH PACKAGE

OFF ON

ACC1 Functions

ACC2 Functions

H: hi fan/dehumid

Not Used

DIP SWITCH PACKAGE

OFF ON

ACC1 Functions

ACC2 Functions

H: hi fan/dehumid

Not Used

MOD

1-COM

2-+

3-Y

P11

A0-1

Gnd

A0-2

Gnd

P10

T1

T2

T3

T4

T5

T6

P9

T1

T2

T3

T4

T5

T6

HPWS

RED

RED

HP

LOC

4

BLU

LP

LT1

6

GRY

LT1

LT2

7

GRY

LT2

RV

9

BRN

RVS

CO

10

ORG

CO

CO

11

YEL

CO

CO

12

YEL

CO

P7

24V DC

EH1

EH2

P6

CCG

BRN

CC

YEL

SEE NOTE 1

TB 3 (L1 & L2) WILL TAKE PLACE OF CC (L1 & L2).

SEE NOTE 1

COMPRESSOR OPTION

TSM09-18

BLK

BLU

BLK

RED

RED

T2

SEE NOTE 1

COMPRESSOR OPTION

TSM09-18

BLK

BLU

BLK

RED

RED

T2

SEE NOTE 1

COMPRESSOR OPTION

TSM09-18

BLK

BLU

BLK

RED

RED

T2

SEE NOTE 1

COMPRESSOR OPTION

TSM09-18

BLK

BLU

BLK

RED

RED

T2