

015-060 COMMERCIAL 208-240/277/60/1 DXM2, ECM-CV, HYBRID

PCN 23-0008 DATE: 1/9/23

DRAWING NO. 96B0530NII REV E

**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 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:**

- 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.
- 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.

ECM1. For ECM Blower Motor air flow adjustment and diagnostic information refer to IOM.  
HWG3. WSTAT is supplied with unit and must be wired in series with the hot leg to the pump. WSTAT is rated for voltage up to 277V.  
SAC3. Use Start Assist Capacitor only on unit size 015-018.  
HYD1. Heat / Cool 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.

**Wiring Diagram:**

The diagram illustrates the electrical connections for the DXM2 Microprocessor Control Logic unit. Key components and connections include:

- Power Supply:** 208/240V input (YEL, BLU) connected to the unit's P8 terminal block. A 24V transformer (CB) is shown with a 277V BLK input and a 0V output (C BLK).
- Thermostat (T-STAT):** ATC32U01\* connected to the unit's P4 terminal block (C, B-, A+, R).
- Compressor and Blower Motor:** The compressor (COMPRESSOR) and blower motor (BM) are connected to the unit's P7 terminal block. The blower motor is connected to the unit's P8 terminal block (RED, YEL, WHT, GRN).
- Relays and Switches:** K1 RELAY, K2 RELAY, and S3 DIP SWITCH PACKAGE are shown. The S3 switch is used for COMM:SLAVE/MASTER, HWG:NORM/TEST, HWG:SP:125/150, and HWG:DISABLE/ENABLE.
- Temperature Sensors:** LT1, LT2, and LWT are connected to the unit's P9 terminal block.
- Water Stat (WSTAT):** Connected to the unit's P10 terminal block (T1, T2, T3, T4, T5, T6).
- Capacitors:** SAC (Start Assist Capacitor) and CAP (Capacitor) are connected to the unit's P11 terminal block (A0-1, GND, A0-2, GND).
- Grounding:** The unit is grounded to the common ground (G/Y) of the power supply.

**Field Wiring When Disconnect Option is Not Present:**

NEUTRAL ON 277V SYSTEM.

Unit Power Supply REFER TO DATA PLATE  
USE COPPER CONDUCTORS ONLY  
SEE NOTE 2.