

TE 208-230/60/3 DXM2, INTERNAL PUMP, ECM, MPC, COMM

PCN: 19-0566 DATE: 11/14/19

DRAWING NO. 96B0242N62 REV F

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.
- 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 CXM/DXM board standoffs and screws to Control Box.

ECM1. For ECM Blower Motor air flow adjustment and diagnostic information refer to I.O.M.

HWG3. WATER STAT is supplied with unit and must be wired in series with the hot leg to the pump. Water stat is rated for voltage up to 277V.

MPC1. Factory cut JW1 (CXM) or JW4 (DXM) jumper. Dry Contact will be available between AL1 and AL2.

MPC2. Refer to MPC Installation application, and Operation Manual For Control Wiring to the unit.

MPC3. ASW sensors are not required on Water-Water application. ASW06-ASW08 (Water-Air Only) move jumper to LSTAT, ASW09-ASW11 move jumper to Rnet.

MPC8. Factory cut JW1 jumper. Dry Contact will be available between AL1 and AL2

PMP1. For Variable Speed pump control and diagnostic information refer to unit IOM.

PMP2. For Variable Speed pump option, place jumper on PWM pins.

CONTROL BOX LAYOUT

COMMERCIAL HI-VOLTAGE 1-PHASE

CONTROL BOX LAYOUT LOW VOLTAGE DXM2/MPC

Wiring Diagram:

The diagram illustrates the electrical connections for the ClimateMaster MPC GEN 2 control board. Key components and connections include:

- Power Supply:** 208/230 V, 240V transformer (CB3-4A) providing 24V and 208V outputs. Grounding is shown for the 24V line.
- Control Board (ClimateMaster MPC GEN 2):** Features terminals for P1 (Field Wiring Terminal Block), P2 (RNET, AL1, AL2, EH2, LAT/LWTL, LWT/LWTS, THERM, SLIDE/OVR, LED), P3 (NOI, ACC1, NC1, NC2, COM), P4 (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), P5 (HP, LP, LT1, LT2, RV, CO), P6 (EH1, EH2), P7 (CCG, CC), P8 (12V DC, IN, OUT, GND, NC), P9 (T1, T2, T3, T4, T5, T6, T7, T8), and P10 (GND, AO-2, GND).
- Compressor and Blower Motor (BM):** Connected to the 24V supply via a 24VDC relay (K1) and a 24VDC contactor (K2). The compressor is protected by a thermal switch (T3) and a thermal switch (T2).
- Water Stat (WSTAT):** Connected to the 24V supply via a 24VDC relay (K1) and a 24VDC contactor (K2).
- Thermostat (T-STAT):** Connected to the 24V supply via a 24VDC relay (K1) and a 24VDC contactor (K2).
- Relays and Contactors:** K1 (24VDC), K2 (24VDC), K3 (24VDC), K4 (24VDC), K5 (24VDC), K6 (24VDC), K7 (24VDC), K8 (24VDC), K9 (24VDC), K10 (24VDC).
- Wiring:** Includes 24VDC, 208V, 240V, and 0V lines. Grounding is shown for the 24VDC and 208V lines.
- Labels:** "POLARITY SENSITIVE", "DDC COMM NETWORK", "SEE NOTE 6", "SEE NOTE 7", "SEE NOTE 8", "SEE NOTE 9", "SEE NOTE 10", "SEE NOTE 11", "SEE NOTE 12", "SEE NOTE 13", "SEE NOTE 14", "SEE NOTE 15", "SEE NOTE 16", "SEE NOTE 17", "SEE NOTE 18", "SEE NOTE 19", "SEE NOTE 20", "SEE NOTE 21", "SEE NOTE 22", "SEE NOTE 23", "SEE NOTE 24", "SEE NOTE 25", "SEE NOTE 26", "SEE NOTE 27", "SEE NOTE 28", "SEE NOTE 29", "SEE NOTE 30", "SEE NOTE 31", "SEE NOTE 32", "SEE NOTE 33", "SEE NOTE 34", "SEE NOTE 35", "SEE NOTE 36", "SEE NOTE 37", "SEE NOTE 38", "SEE NOTE 39", "SEE NOTE 40", "SEE NOTE 41", "SEE NOTE 42", "SEE NOTE 43", "SEE NOTE 44", "SEE NOTE 45", "SEE NOTE 46", "SEE NOTE 47", "SEE NOTE 48", "SEE NOTE 49", "SEE NOTE 50", "SEE NOTE 51", "SEE NOTE 52", "SEE NOTE 53", "SEE NOTE 54", "SEE NOTE 55", "SEE NOTE 56", "SEE NOTE 57", "SEE NOTE 58", "SEE NOTE 59", "SEE NOTE 60", "SEE NOTE 61", "SEE NOTE 62", "SEE NOTE 63", "SEE NOTE 64", "SEE NOTE 65", "SEE NOTE 66", "SEE NOTE 67", "SEE NOTE 68", "SEE NOTE 69", "SEE NOTE 70", "SEE NOTE 71", "SEE NOTE 72", "SEE NOTE 73", "SEE NOTE 74", "SEE NOTE 75", "SEE NOTE 76", "SEE NOTE 77", "SEE NOTE 78", "SEE NOTE 79", "SEE NOTE 80", "SEE NOTE 81", "SEE NOTE 82", "SEE NOTE 83", "SEE NOTE 84", "SEE NOTE 85", "SEE NOTE 86", "SEE NOTE 87", "SEE NOTE 88", "SEE NOTE 89", "SEE NOTE 90", "SEE NOTE 91", "SEE NOTE 92", "SEE NOTE 93", "SEE NOTE 94", "SEE NOTE 95", "SEE NOTE 96", "SEE NOTE 97", "SEE NOTE 98", "SEE NOTE 99", "SEE NOTE 100".