

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

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:
- 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 control board standoffs and/or Common to Control Box.

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

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.

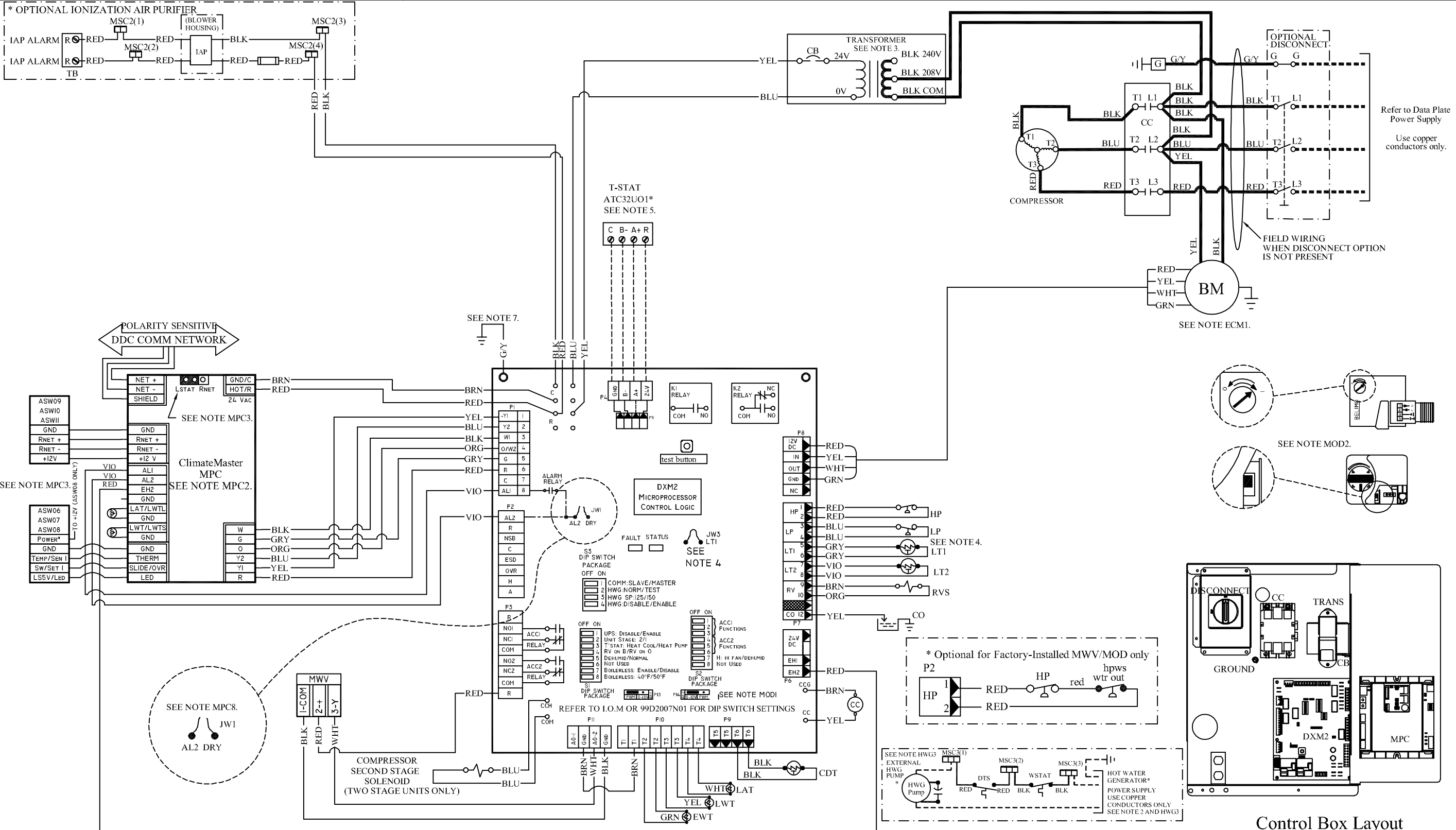
MOD1. For Modulating Water Valve option, place jumper on 0-10V pins.

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

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



Control Box Layout