TITLE: H/V/D 208-230/60/3 CXM LON ECM COMMERCIAL	PCN 21-0026	DATE: 3/29/21	DRAWING NO. 96B0310N07	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

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

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.
LON1. Refer to LON, OR TSTAT Installation, Application, and Operation Manual for control wiring to the unit.
LON2. Optional LON wires. Only connect if LON connection is desired at the wall sensor.
LON6. Factory cut JW1 jumper. Dry Contact will be available between AL1 and AL2.

ECM BOARD DIP SWITCH SETTINGS

	COOL CFM	
SPD	SW1	SW2
1	ON	ON
2	ON	OFF
3	OFF	ON
4	OFF	OFF

	CFM HEAT	
SPD	SW3	SW4
1	ON	ON
2	ON	OFF
3	OFF	ON
4	OFF	OFF

	EH CFM	
SPD	SW5	SW6
1	ON	ON
2	ON	OFF
3	OFF	ON
4	OFF	OFF

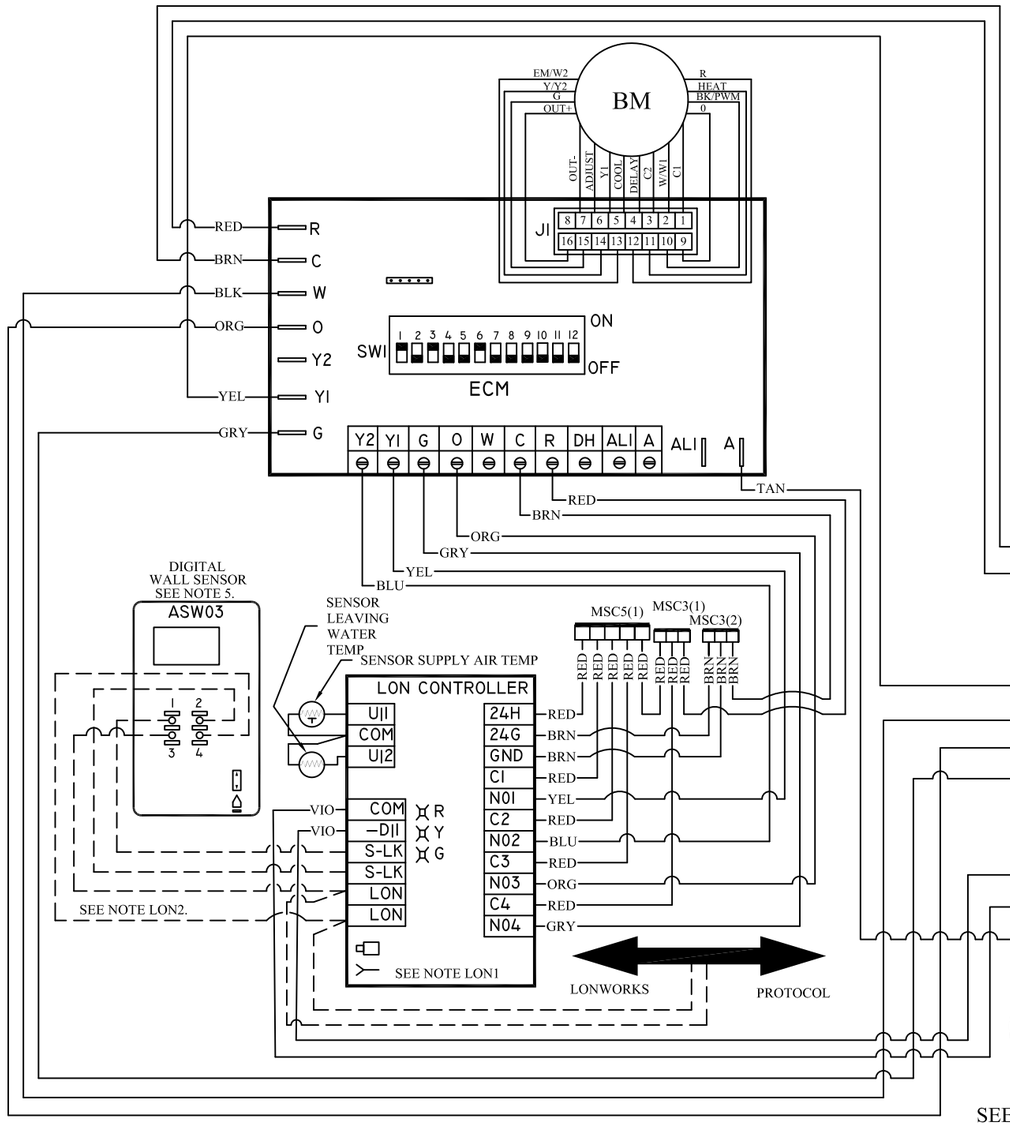
	ADJ CFM	
SPD	SW7	SW8
TEST	ON	ON
-	ON	OFF
+	OFF	ON
NORM	OFF	OFF

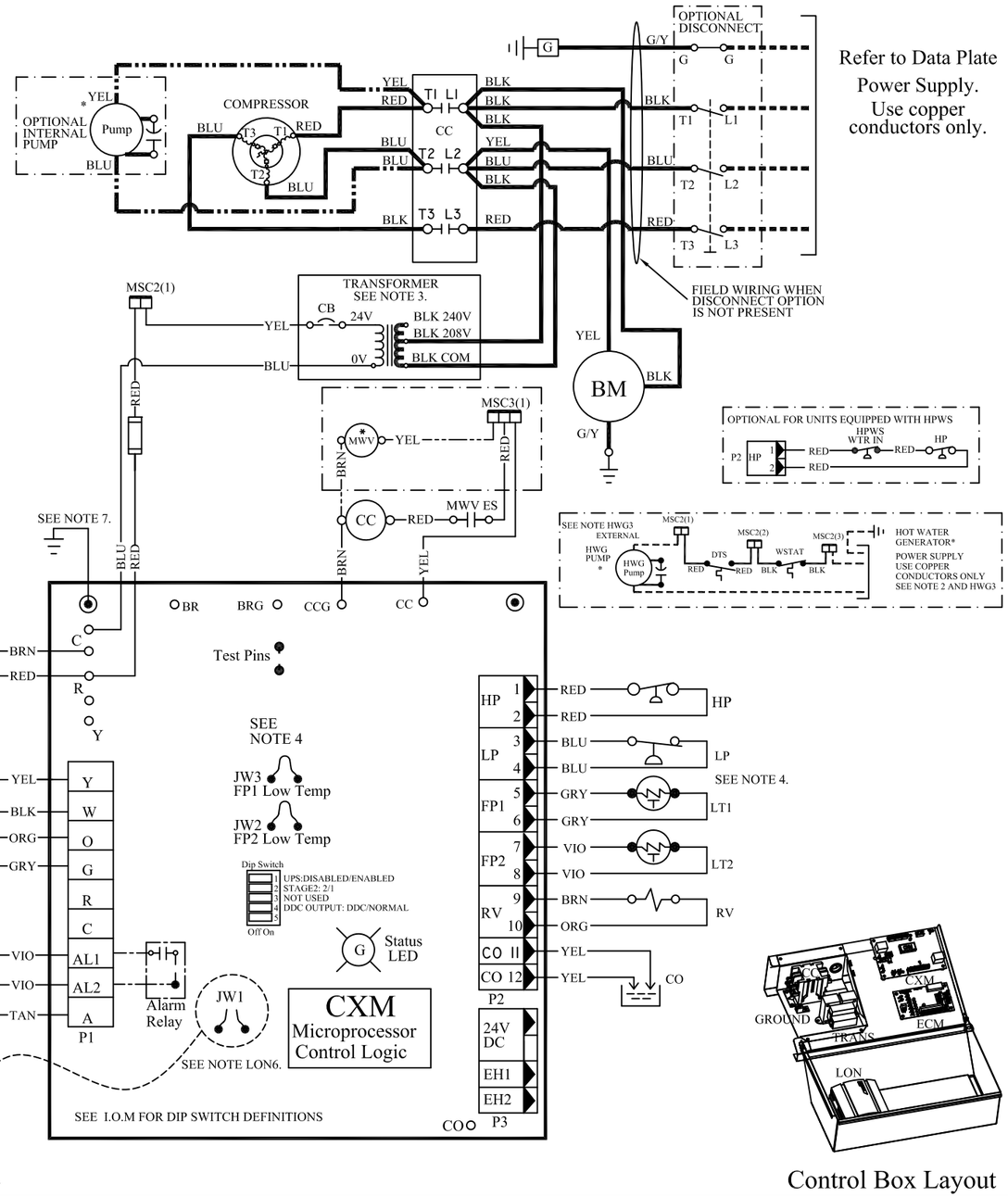
DEHUM	
SW9	
ON	NORM
OFF	DH

UNUSED	
SW10	
ON	
OFF	

UNUSED	
SW11	
ON	
OFF	

UNUSED	
SW12	





Control Box Layout