WIRING DIAGRAM MANUAL Geothermal Heat Pumps

HB, HP, HS, HW

Safety Labeling and Signal Words

DANGER, WARNING, CAUTION, and NOTE

The signal words **DANGER**, **WARNING**, **CAU-TION**, and **NOTE** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING**, **CAUTION**, and **NOTE** will be used on product labels and throughout this manual and other manuals that may apply to the product.

DANGER – Immediate hazards which **will** result in severe personal injury or death.

WARNING – Hazards or unsafe practices which **could** result in severe personal injury or death.

CAUTION – Hazards or unsafe practices which **may** result in minor personal injury or product or property damage.

NOTE – Used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:



The signal word **CAUTION** is used throughout this manual in the following manner:



Signal Words on Product Labeling

Signal words are used in combination with colors and/or pictures on product labels.

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WARNING

DEATH, PERSONAL INJURY, AND/OR PROPERTY DAMAGE HAZARD

Failure to carefully read and follow this warning could result in equipment malfunction, property damage, personal injury and/or death.

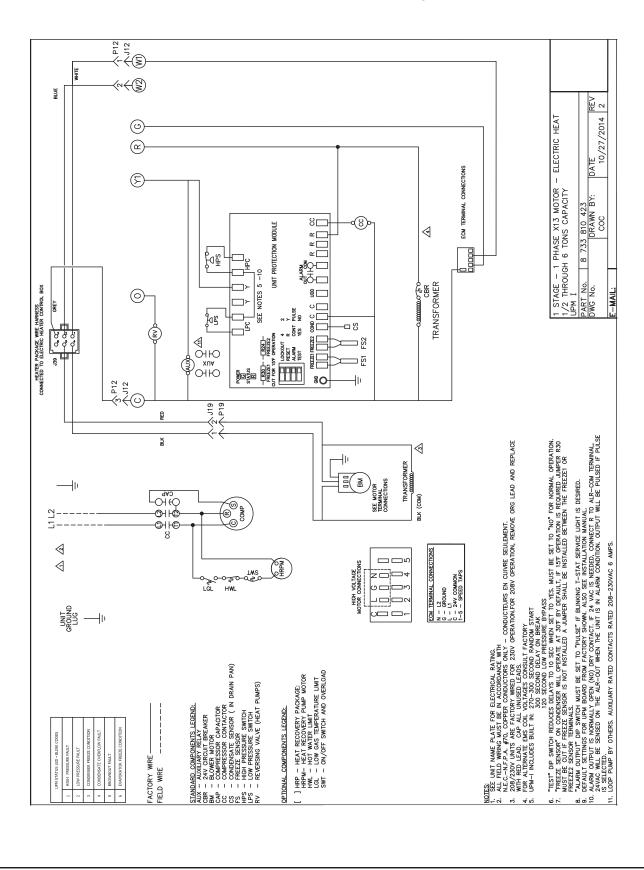
Installation or repairs made by unqualified persons could result in equipment malfunction, property damage, personal injury and/or death.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Installation must conform with local building codes and with the National Electrical Code NFPA70 current edition or Canadian Electrical Code Part 1 CSA C.22.1.

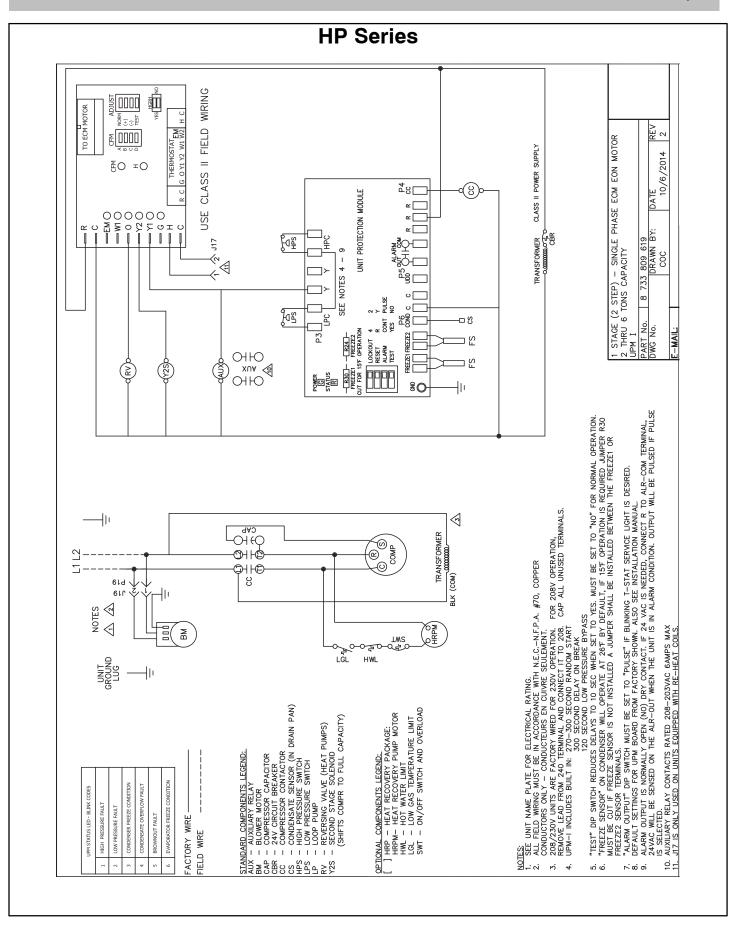
HB Series \$ (0) 2 REV (r DATE 10/6/2014 ECM TERMINAL CONNECTIONS (\overline{r}) , 8733 809 622 DRAWN BY: COC 1 STAGE - 1 PHASE X13 MOTOR 1/2 THROUGH 6 TONS CAPACITY UPM I <u>(१)</u> SГ UNIT PROTECTION MODULE щΓ <u>د [</u> ۲ 🗌 fa₹ へのです。 CBR TRANSFORMER SEE NOTES 4 ART No. § 🗔 (\circ) -MAIL: υĽ 4 2 R Y CONT PULSE YES NO Įσĩ 'n -R30 - R24 -FREEZE1 FREEZE2 CUT FOR 15F OPERATION 22 FREEZE1 FREEZE2 LOCKOUT RESET ALARM TEST FS2 \triangleleft TEST UNIT MAME PLATE FOR ELECTRICAL RATING.
TEE UNIT MAME PLATE FOR ELECTRICAL RATING.
TEE UNIT MAME PLATE FOR ELECTRICAL RATING.
TE IFEL FLAJ, JF70, COPPERC CONDUCTORS ONLY - CONDUCTORS ON VIATE A STOT, COPPERC CONDUCTORS ONLY - CONDUCTORS ON PERSING.
UPM-I RED LEAD. OLAP ALL UNUSCIDE EAAGS
UPM-I NICLIDES BULT IN: 270-300 SECOND RANDOM START - 100 SECOND DELAY ON BREAK.
UPM-I NICLIDES BULT IN: 270-300 SECOND RANDOM START - 100 SECOND DELAY ON BREAK.
TEST" DIP SWITCH REDUCES DELAYS TO 10 SEC WHEN SET TO 'NO" FOR NORMAL OPERATION.
"REEZE SENSOR" ON CONDENSER MILL OPERATING TEST MUST BE SET TO "NO" FOR NORMAL OPERATION.
"TEST" DIP SWITCH REDUCES DELAYS TO 10 SEC WHEN SET A TO "NO" FOR NORMAL OPERATION.
"TEST" DIP SWITCH REDUCES DELAYS TO 10 SEC WHEN SET A STALLED BETMEEN THE FREEZET OR WUST BE SET TO "NULSE BETAULT STRUCK LIGHT IS DESIRED.
"TARM OUTPUT" DIP SWICH MUST. RE SET TO "PULSE" FE BLINKING T-STAT SERVICE LIGHT IS DESIRED.
"ALARM OUTPUT" SI ONGMALLY POEN (NO) RECONTERY SHOWL ALLORY SHOWN. AUXILL.
ALARM OUTPUT IS NORMALLY POEN (NO) TRY RECORT SOND TON. OUTPUT MILL BE PULSED IS SECTED.
ALARM OUTPUT IS NORMALLY POEN (NO) THE NATION. OUTPUT WILL BE PULSED IS SECTED.
ALARM OUTPUT IS NORMALLY POEN (NO) FOR XONT SOND NATION.
AUXILARY RELAY CONTACTS RATED 208-203VAG 6MAPS MAX оно мых ОНО J [S AUX, R TATUS 30 (ပ ECM TERMINAL CONNECTIONS 0 UNIT GROUND LUG N - L2 G - GROUND L - L1 C - 24V COMMON 1-5 - SPEED TAPS TRANSFORMER COMP 0000000 œ 2 ΘНЮ BLK (COM) ខ SEE MOTOR TERMINAL CONNECTIONS BELOW -|I $\langle \overline{} \rangle$ HRPM =(< BM HIGH VOLTAGE MOTOR CONNECTIONS TW2 S∼_SO LGL 0-50 b HWL () STANDARD COMPONENTS LEGEND. AUX - AUXULARY RELAY BM - BLOWER MOTOR CBR - BLOWERSOR CAPACITOR CBR - 24V CIRCUIT BREAKER CC - COMPRESSOR CONTACTOR FIGH FREESURE SWICH LP - LOOP PUMPIC SWICH LP - LOOP PUMPIC SWICH RV - REVERSIVE VALVE (HEAT PUMPS) CPTIONAL COMPONENTS LEGEND: [] HAP - HEAT RECOVERY PACKAGE: HEPM- HEAT RECOVERY PUMP MOTOR HW. - HOT WATER LUMI LGL - LUW GAS TEMPERTURE LUMIT SWT - ON/OFF SWTCH AND OVERLOAD EVAPORATOR FREEZE CONDITION CONDENSER FREEZE CONDITION UPM STATUS LED - BLINK CODES HIGH PRESSURE FAULT NOTES: 1. SEE UNIT NAME 2. ALL FIELD WRIP N.E.C.-N.F.P.A. 3. 208/230V UNIT WITH RED LEAD 4. UPM-I INCLUDES LOW PRESSURE FAULT BROWNOUT FAULT FACTORY WIRE FIELD WIRE 2 m ŝ 9 ö. പ്രം പ ഗ്ഗ്

HB Series with Auxiliary Heat



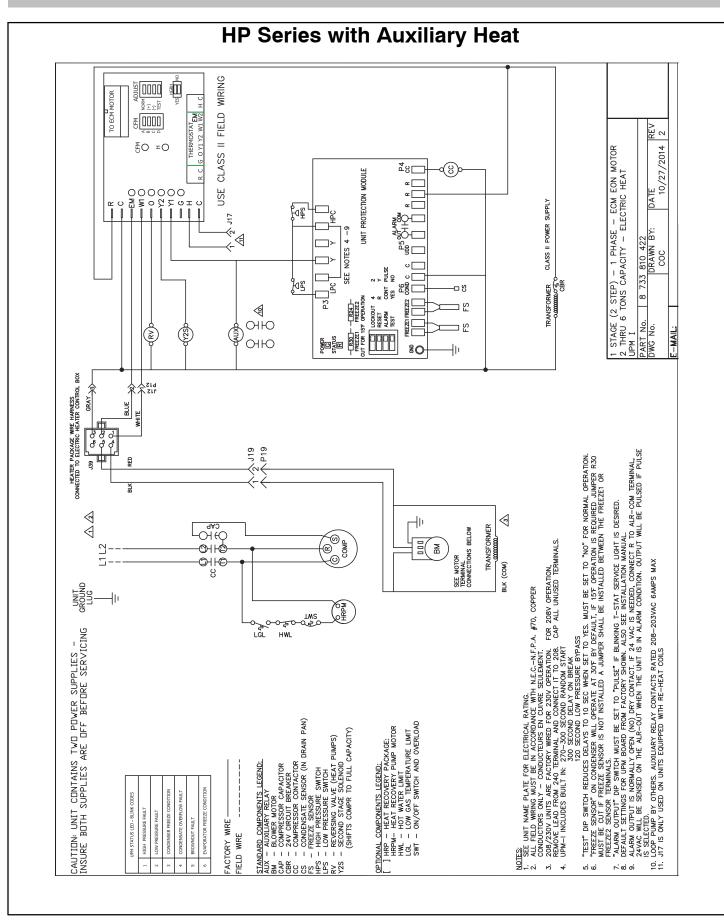
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