CENTRAVAC® UCP2 FIELD WIRING LAY-OUT DIAGRAM CVHE,CVHF,CVHG

PURPOSE: THIS DRAWING IS TO BE USED FOR ESTIMATING FIELD WIRING REQUIREMENTS.

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OUTDOOR

SENSOR

TRACER OR

OTHER TRANE REMOTE DEVICE

NEXT UNIT

FXTFRNAI

(CONTACT)

EMERGENCY STOP 17
NORMAL/TRIP
(CONTACT)

EXTERNAL CONTROL 17 SETPOINT 1-20 ma OR 2-10 VDC

EXTERNAL CONTROL 17

(CONTACT)

EXTERNAL

MOMITOR

REFRIGERENT

CHILLED WATER PUMP

STARTER

CONDENSER WATER PUMP

STARTER

REMOTE

AI ARM

INDICATOR

INDICATOR

TRACER

CONTROLLED

DEVICE

HEAD RELIEF

REQUEST

MAXIMUM

INDICATOR

ICE

MAKING

RELAY

FREE

AUX RELAY

INDICATOR

WARNING

COOLING

IMIT

INDICATOR

CHILLER

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NOTES:

- DASHED LINES INDICATE FIELD WIRING BY OTHERS. CHECK SALES ORDER TO DETERMINE WHICH OPTIONS ARE SPECIFIED.
- DO NOT ROUTE LOW VOLTAGE (30V MAX) WITH CONTROL VOLTAGE (115V) AND DO NOT POWER UNIT UNTIL CHECK-OUT AND START-UP PROCEDURES HAVE BEEN COMPLETED.
- 3. THE FOLLOWING OPTIONS ARE AVAILABLE, REFER TO MECHANICAL SPECIFICATION FOR DESCRIPTION:
- (A) OPTIONS MODULE: REQUIRED W/FLAGGED FEATURES (REFER TO CONTROL SCHEMATICS)
- B COMMUNICATIONS INTERFACE COMM3 OR COMM4 (CONSULT SALES OFFICE FOR SELECTION)
- C UNIT DISCONNECT, NON FUSED (STARTER OPTION)
- CHILLED WATER RESET-OUTDOOR AIR ◁╗
- EVAPORATOR AND CONDENSER FLOW SWITCHES ARE REQUIRED. THEY MUST BE INSTALLED AND WIRED TO THE TRANE PANEL BY THE INSTALLING CONTRACTOR. PURCHASE OF SWITCHES FROM TRANE IS
- 45 AUXILIARY CONTROLS FOR A CUSTOMER SPECIFIED OR INSTALLED LATCHING TRIPOUT. THE CHILLER WILL RUN NORMALLY WHEN THE CONTACT IS CLOSED AND TRIP THE CHILLER OFF WITH A MANUALLY RESETTABLE DIAGNOSTIC WHEN THE CONTACT OPENS. MANUAL RESET IS ACCOMPLISHED AT THE DIAGNOSTIC KEY ON THE FRONT OF THE UNIT CONTROL PANEL (UCP2).
- 6 AUXILIARY CONTROLS FOR A CUSTOMER SPECIFIED OR INSTALLED REMOTE AUTO/STOP FUNCTION. THE CHILLER WILL RUN NORMALLY WHEN THE CONTACT IS CLOSED AND STOP THE CHILLER WHEN THE CONTACT IS OPEN. RE-CLOSURE OF THE CONTACT WILL PERMIT THE CHILLER TO AUTOMATICALLY RETURN TO NORMAL OPERATION.

REQUIRED WIRING:

- 7. ALL CUSTOMER CONTROL CIRCUIT WIRING MUST HAVE A MINIMUM RATING OF 150 VOLTS.

 8. ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), STATE AND LOCAL REQUIREMENTS, OUTSIDE THE UNITED STATES, OTHER COUNTRIES APPLICABLE NATIONAL AND LOCAL PROPURPTIES CHAIL ADDITIONAL ADDITIONAL AND LOCAL PROPURPTIES CHAIL ADDITIONAL ADDITION
- AND/OR LOCAL REQUIREMENTS. OUTSIDE THE UNITED STATES, OTHER COUNTRIES APPLICABLE NATION

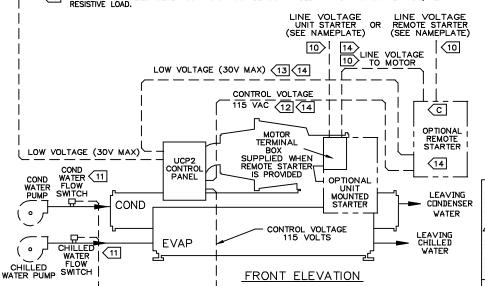
 AND/OR LOCAL REQUIREMENTS SHALL APPLY.

 THE UNIT CONTROL PANEL (UCP2) SUPPLIES A CONTACT OUTPUT TO CONTROL THIS CUSTOMER SUPPLIED DEVICE. MAXIMUM FUSE SIZE 15 AMPS.

 COPPER WIRE ONLY SIZED PER N.E.C. BASED ON NAMEPLATE RATING.
- 11 2 WIRES, 115 VAC CIRCUIT. MINIMUM CONTACT RATING AT 115 VAC 2.88 INDUCTIVE 1/3 H.P.
- 12 7 WIRES 2 #10 AWG 600V, 4 #16 AWG 600V, 1 #8 GRN FOR GROUND
- 13 2 WIRES, 30 VOLT OR LESS CIRCUIT. DO NOT RUN WITH HIGHER VOLTAGE CIRCUITS.
- 14 IF UNIT IS SUPPLIED WITH UNIT MOUNTED STARTER, FIELD WIRING BETWEEN UNIT AND STARTER IS NOT REQUIRED.

OPTIONAL WIRING:

- 3 WIRES, 115 VAC CIRCUIT, SEPARATE 115 VAC POWER SUPPLY IS REQUIRED. CONTACTS ARE NO/NC RATINGS 2.88 INDUCTIVE 1/3 H.P. AT 115 VAC. 15
- 2 WIRES, 115 VAC CIRCUIT, SEPARATE POWER SUPPLY IS REQUIRED. CONTACTS ARE N.O. CONTACT RATING 2.88 INDUCTIVE 1/3 H.P. AT 115 VAC. 2 WIRES, 30 VOLT OR LESS CIRCUIT. DO NOT RUN IN CONDUIT WITH HIGHER VOLTAGE CIRCUITS. (17)
- SHIELDED PAIR, 30 VOLT OR LESS CIRCUIT. MAX LENGTH 5000 FT. BELDON TYPE 8760 RECOMMENDED. <18∣
- (19) CUSTOMER SUPPLIED SILVER CONTACTS MUST BE COMPATIBLE WITH DRY CIRCUIT 24 VDC, 12mA RESISTIVE LOAD.



AWARNING DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FALLIRE TO DESCONDECT POWER BETORS SERVICING CAN CAUSE SEVER PERSONAL INJURY OR DEATH.

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VOLTAGE HASARDELDSI DECONNECTEZ TOUTES LES SOURCES ELECTRIQUES INCLUANT LES DISJONCTEURS SITUES À DISTANCE AVANT D'EFFECTUER L'ENTRETIEN.

▲ CAUTION UNIT TERMINALS ARE NOT DES TO ACCEPT OTHER TYPES OF CONDUCTORS FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

LEGEND

THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSDE PARTIES WITHOUT THE WEATHER COMPANY