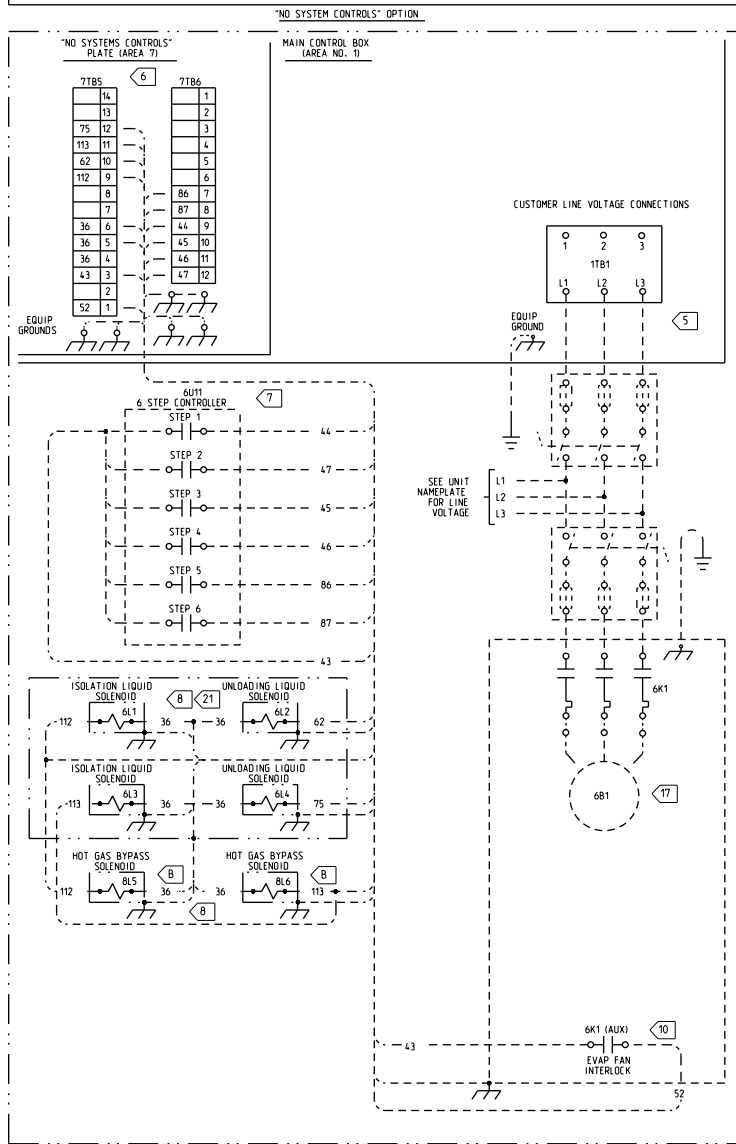
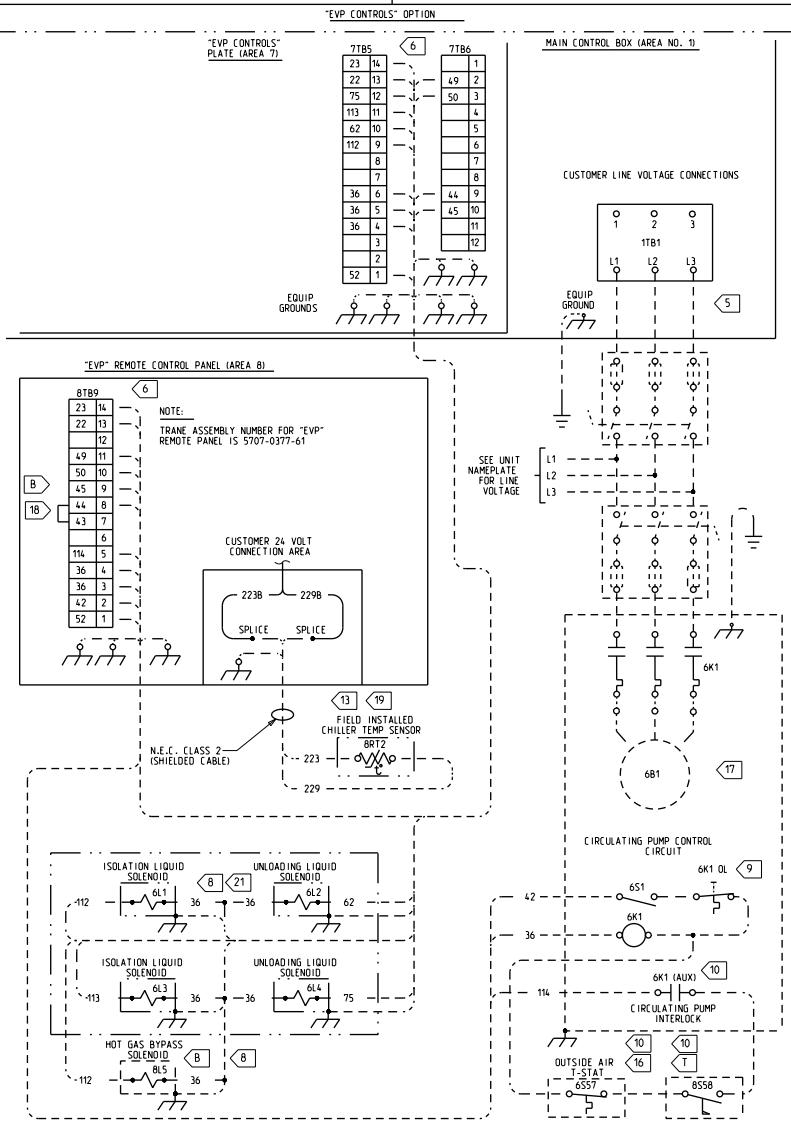
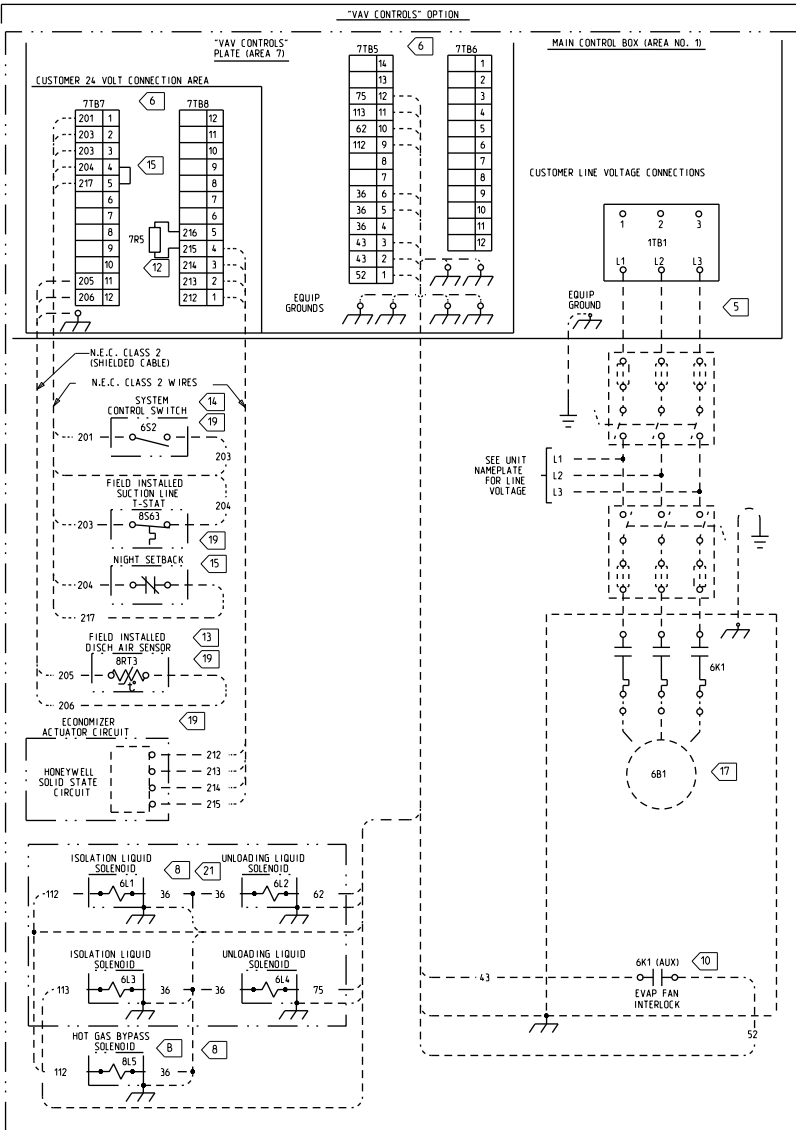


SEE APPROPRIATE INSET FOR APPLICABLE CONTROL VARIATION

TRANE		FILE NUMBER:	DRAWING NUMBER:	SHEET:	REV
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE CONSENT OF TRANE.			2307-9144	1 OF 1	A
DRAWN BY: T.DEPIREST		TRANE® DATE: 10/08/08		SPLIT SYSTEM CONDENSING UNIT DIAGRAM FIELD CONNECTION LINE VOLTAGE 200,230,460,575V/60HZ/3PH AIR COOLED - RA 80-120 TON	
REPLACES: ---		REVISION DATE: ---			
CAD SYSTEM USED: ProE/DETAIL		SIMILAR TO: 2307-4500/4501			



NOTE:

1. ALL WIRING AND COMPONENTS SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES.
2. ALL WIRING TO BE N.E.C. CLASS 1 UNLESS OTHERWISE SPECIFIED.
3. CAUTION -- DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURES HAVE BEEN COMPLETED.
4. ALL THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASE FAILURE CONDITIONS.
5. SEE TABLE OF ACCEPTABLE WIRE SIZES FOR CONNECTION TO MAIN UNIT TERMINAL BLOCK (1TB1) OR DISCONNECT SWITCH (151).
6. SIZE CONTROL WIRING SUCH THAT TOTAL WIRE RESISTANCE OF THE RUN DOES NOT EXCEED 6 OHMS. SEE TABLE FOR WIRE SELECTION.
7. 6 STEP CONTROLLER (6U11) MIN. RATING - N.O. CONTACTS = 150 VA INRUSH/75 VA SEALED; N.C. CONTACTS = 80 VA INRUSH/40 VA SEALED.
8. ISOLATION LIQUID SOLENOID VALVES (6L1,6L3), UNLOADING LIQUID SOLENOID VALVES (6L2,6L4) AND HOT GAS BYPASS VALVES (8LS,8L6) -- MAX. SOLENOID RATINGS ARE 72 VA INRUSH/30 VA SEALED.
9. EVAPORATOR OR CIRCULATING PUMP CONTROL CIRCUIT MAX. RATINGS ARE 240 VA INRUSH/40 VA SEALED.
10. STARTER INTERLOCK (6K1 AUX), OUTSIDE AIR T-STAT (6557), SYSTEM ON/OFF SWITCH (651), STARTER OVERLOAD RELAY (6K1 OL) AND FLOW SWITCH (8558) MIN. RATINGS ARE 250 VA INRUSH/125 VA SEALED.

- 21 ISOLATION LIQUID SOLENOID VALVES (6L1,6L3) ARE REQUIRED FOR CHARGE ISOLATION PROVIDED & INSTALLED BY THE FIELD. UNLOADING LIQUID SOLENOID VALVES (6L2,6L4), IF APPLICABLE, ARE PROVIDED & INSTALLED BY THE FIELD.

CUSTOMER WIRE SELECTION AND FUSE REPLACEMENT TABLE				
POWER WIRE SELECTION TO MAIN TERMINAL BLOCK (1TB1)			CONNECTOR WIRE RANGE	
UNIT VOLTAGE	TERMINAL BLOCK SIZE			
ALL VOLTAGES	760 AMP		(2) #4 - 500 MCM	
CONTROL WIRE SELECTION TO CONTROL TERMINAL BLOCKS (7TB5 - 7TB8) "SEE NOTE 6"				
WIRE GAUGE	OHMS PER 1000 FEET		MAX WIRE LGTH	
18	8		500 FT	
16	5		1000 FT	
14	3		2000 FT	
12	2		3000 FT	
FUSE REPLACEMENT SELECTION				
FUSE DESCRIPTION	UNIT SIZE	UNIT VOLTAGE	FUSE TYPE	FUSE SIZE
CONTROL CIRCUIT FUSE (1F1)	ALL	ALL	CLASS CC - TYPE FNQ-R	10 AMP
CMRPR PROTECTOR FUSE (1F2 & 3)	ALL	ALL	TYPE MTH-6	6 AMP
CONDENSER FAN FUSE (1F4 -- 1F9)	80 TON	200 VOLT	CLASS RKS	30 AMP
		230 VOLT		25 AMP
		460 VOLT		20 AMP
		575 VOLT		15 AMP
	100 & 120 TON	200/230 VOLT	CLASS RKS	35 AMP
		460 VOLT		25 AMP
		575 VOLT		20 AMP
		ALL		200 VOLT
230 VOLT	CLASS CC - TYPE FNQ-R		5 AMP	
460 VOLT	CLASS CC - TYPE FNQ-R		4 AMP	

- 12 REMOVE RESISTOR (7R5 - 7TB8-4 & 5) WHEN FIELD SUPPLIED ECONOMIZER IS REQUIRED WITH OPTIONAL VARIABLE AIR VOLUME ("VAV") CONTROLS.
- 13 WIRING FOR CHILLER TEMP SENSOR (8RT2) AND DISCHARGE AIR SENSOR (8RT3) MUST BE SHIELDED CABLE AND NOT RUN IN CONDUIT WITH OTHER WIRING; FOR RUNS UNDER 500 FEET USE 16 GA (MIN) WIRE; FOR RUNS FROM 500 TO 1000 FEET USE 14 GA (MIN) WIRE; MAXIMUM RUN IS 1000 FEET, GROUND SHIELD AT ONE END ONLY.
- 14 SUGGESTED SYSTEM CONTROL SWITCH (652) FOR "VAV" CONTROLS OPTION IS CUTLER HAMMER 7580KS SPST TOGGLE SWITCH OR EQUIVALENT.
- 15 WHEN NIGHT SETBACK IS REQUIRED WITH OPTIONAL "VAV", PROVIDE A CONTACT CLOSURE SUITABLE FOR A DRY CIRCUIT WITH MIN. RATING OF 125 VA/24 VAC - PILOT DUTY. REMOVE JUMPER (7TB7-4 & 5) WHEN REQUIRED.
- 16 OUTSIDE AIR T-STAT (6557) IS REQUIRED ONLY WITH "EVP" OPTION - FOR LOW AMBIENT COMPRESSOR LOCKOUT.
- 17 CIRCUIT AS SHOWN IS FOR A CUSTOMER SUPPLIED EVAPORATOR FAN MOTOR (6B1) AND EVAP FAN STARTER (6K1). WHEN "EVP" OPTION IS REQUIRED, THIS CIRCUIT BECOMES A CIRCULATING PUMP MOTOR (6B1) AND A CIRCULATING PUMP STARTER (6K1).
- 18 INSTALL JUMPER (8TB9-7 & 8) WHEN HOT GAS BYPASS OPTION IS REQUIRED WITH OPTIONAL "EVP". INSTALL HOT GAS BYPASS SOLENOID VALVE (8LS) AS SHOWN.
- 19 CAUTION - DO NOT RUN LOW VOLTAGE WIRE (30 VOLTS MAXIMUM) IN CONDUIT OR RACEWAY WITH HIGHER VOLTAGE WIRE.
20. THE FOLLOWING CAPABILITIES ARE OPTIONAL - THEY ARE IMPLEMENTED AND WIRED AS REQUIRED FOR A SPECIFIC APPLICATION.
 - B HOT GAS BYPASS (AVAILABLE ON ALL CONTROL OPTIONS)
 - T FLOW SWITCH (AVAILABLE WITH "EVP" CONTROL)

CAUTION

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

ATTENTION

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

PRECAUCIÓN

UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

IMPORTANT!

DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.