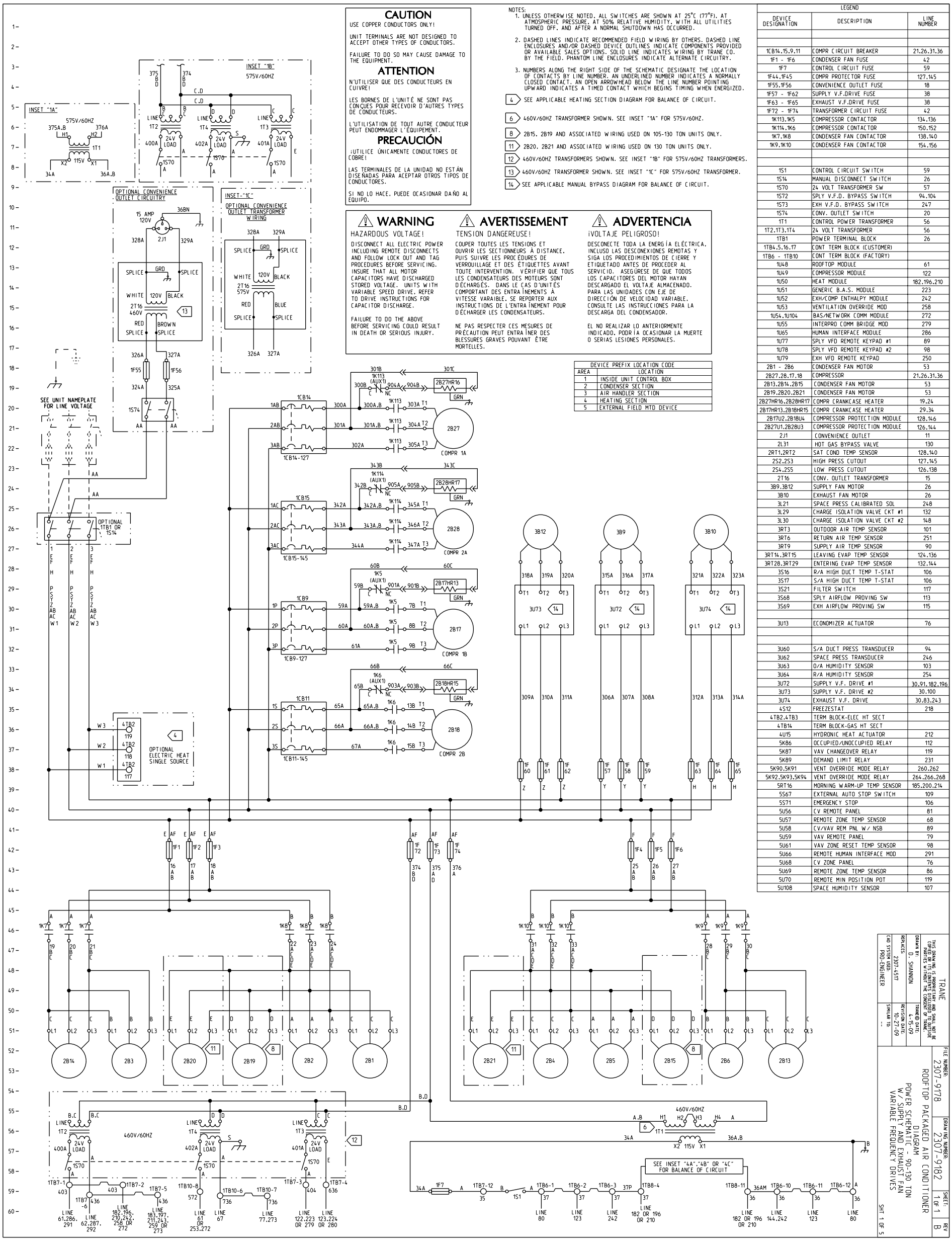

CAUTION

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'ÉQUIPEMENT.

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.

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO. BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT.

6 460V/60HZ TRANSFORMER SHOWN. SEE INSET "1A" FOR 575V/60HZ.

8 2B15, 2B19 AND ASSOCIATED WIRING USED ON 105-130 TON UNITS ONLY.

11 2B20, 2B21 AND ASSOCIATED WIRING USED ON 130 TON UNITS ONLY.

12 460V/60HZ TRANSFORMERS SHOWN. SEE INSET "1B" FOR 575V/60HZ TRANSFORMERS.

13 460V/60HZ TRANSFORMER SHOWN. SEE INSET "1C" FOR 575V/60HZ TRANSFORMER.

14 SEE APPLICABLE MANUAL BYPASS DIAGRAM FOR BALANCE OF CIRCUIT.

⚠ WARNING

HAZARDOUS VOLTAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS À DISTANCE. PUIS SUIVRE LES PROCÉDURES DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARAIBLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

⚠ ADVERTENCIA

¡VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL BOX
2	CONDENSER SECTION
3	AIR HANDLER SECTION
4	HEATING SECTION
5	EXTERNAL FIELD MTD DEVICE

LEGEND

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1CB14.15.9.11	COMPR CIRCUIT BREAKER	21.26.31.36
1F1 - 1F6	CONDENSER FAN FUSE	42
1F7	CONTROL CIRCUIT FUSE	59
1F44.1F45	COMPR PROTECTOR FUSE	127.145
1F55.1F56	CONVENIENCE OUTLET FUSE	18
1F57 - 1F62	SUPPLY V.F.DRIVE FUSE	38
1F63 - 1F65	EXHAUST V.F.DRIVE FUSE	38
1F72 - 1F74	TRANSFORMER CIRCUIT FUSE	42
1K113.1K5	COMPRESSOR CONTACTOR	134.136
1K114.1K6	COMPRESSOR CONTACTOR	150.152
1K7.1K8	CONDENSER FAN CONTACTOR	138.140
1K9.1K10	CONDENSER FAN CONTACTOR	154.156
1S1	CONTROL CIRCUIT SWITCH	59
1S14	MANUAL DISCONNECT SWITCH	26
1S70	24 VOLT TRANSFORMER SW	57
1S72	SPLY V.F.D. BYPASS SWITCH	94.104
1S73	EXH V.F.D. BYPASS SWITCH	247
1S74	CONV. OUTLET SWITCH	20
1T1	CONTROL POWER TRANSFORMER	56
1T2.1T3.1T4	24 VOLT TRANSFORMER	56
1TB1	POWER TERMINAL BLOCK	26
1TB4.5.16.17	CONT TERM BLOCK (CUSTOMER)	
1TB6 - 1TB10	CONT TERM BLOCK (FACTORY)	
1U48	ROOFTOP MODULE	61
1U49	COMPRESSOR MODULE	122
1U50	HEAT MODULE	182.196.210
1U51	GENERIC B.A.S. MODULE	223
1U52	EXH/COMP ENTHALPY MODULE	242
1U53	VENTILATION OVERRIDE MOD	258
1U54.1U104	BAS/NETWORK COMM MODULE	272
1U55	INTERPRO COMM BRIDGE MOD	279
1U65	HUMAN INTERFACE MODULE	286
1U77	SPLY VFD REMOTE KEYPAD #1	89
1U78	SPLY VFD REMOTE KEYPAD #2	98
1U79	EXH VFD REMOTE KEYPAD	250
2B1 - 2B6	CONDENSER FAN MOTOR	53
2B27.28.17.18	COMPRESSOR	21.26.31.36
2B13.2B14.2B15	CONDENSER FAN MOTOR	53
2B19.2B20.2B21	CONDENSER FAN MOTOR	53
2B27HR16.2B28HR17	COMPR CRANKCASE HEATER	19.24
2B17HR13.2B18HR15	COMPR CRANKCASE HEATER	29.34
2B17U2.2B18U4	COMPRESSOR PROTECTION MODULE	128.146
2B27U1.2B28U3	COMPRESSOR PROTECTION MODULE	126.144
2J1	CONVENIENCE OUTLET	11
2L31	HOT GAS BYPASS VALVE	130
2RT1.2RT2	SAT COND TEMP SENSOR	128.140
2S2.2S3	HIGH PRESS CUTOUT	127.145
2S4.2S5	LOW PRESS CUTOUT	126.138
2T16	CONV. OUTLET TRANSFORMER	15
3B9.3B12	SUPPLY FAN MOTOR	26
3B10	EXHAUST FAN MOTOR	26
3L21	SPACE PRESS CALIBRATED SOL	248
3L29	CHARGE ISOLATION VALVE CKT #1	132
3L30	CHARGE ISOLATION VALVE CKT #2	148
3RT3	OUTDOOR AIR TEMP SENSOR	101
3RT6	RETURN AIR TEMP SENSOR	251
3RT9	SUPPLY AIR TEMP SENSOR	90
3RT14.3RT15	LEAVING EVAP TEMP SENSOR	124.136
3RT28.3RT29	ENTERING EVAP TEMP SENSOR	132.144
3S16	R/A HIGH DUCT TEMP T-STAT	106
3S17	S/A HIGH DUCT TEMP T-STAT	106
3S21	FILTER SWITCH	117
3S68	SPLY AIRFLOW PROVING SW	113
3S69	EXH AIRFLOW PROVING SW	115
3U13	ECONOMIZER ACTUATOR	76
3U60	S/A DUCT PRESS TRANSDUCER	94
3U62	SPACE PRESS TRANSDUCER	246
3U63	O/A HUMIDITY SENSOR	103
3U64	R/A HUMIDITY SENSOR	254
3U72	SUPPLY V.F. DRIVE #1	30.91.182.196
3U73	SUPPLY V.F. DRIVE #2	30.100
3U74	EXHAUST V.F. DRIVE	30.83.243
4S12	FREEZESTAT	218
4TB2.4TB3	TERM BLOCK-ELEC HT SECT	
4TB14	TERM BLOCK-GAS HT SECT	
4U15	HYDRONIC HEAT ACTUATOR	212
5K86	OCCUPIED/UNOCCUPIED RELAY	112
5K87	VAV CHANGEOVER RELAY	119
5K89	DEMAND LIMIT RELAY	231
5K90.5K91	VENT OVERRIDE MODE RELAY	260.262
5K92.5K93.5K94	VENT OVERRIDE MODE RELAY	264.266.268
5RT16	MORNING WARM-UP TEMP SENSOR	185.200.214
5S67	EXTERNAL AUTO STOP SWITCH	109
5S71	EMERGENCY STOP	106
5U56	CV REMOTE PANEL	81
5U57	REMOTE ZONE TEMP SENSOR	68
5U58	CV/VAV REM PNL W/ NSB	89
5U59	VAV REMOTE PANEL	79
5U61	VAV ZONE RESET TEMP SENSOR	98
5U66	REMOTE HUMAN INTERFACE MOD	291
5U68	CV ZONE PANEL	76
5U69	REMOTE ZONE TEMP SENSOR	86
5U70	REMOTE MIN POSITION POT	119
5U108	SPACE HUMIDITY SENSOR	107

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TRANE

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SIMILAR TO: --

FILE NUMBER: 2307-9178
DRAWING NUMBER: 2307-9182
SHEET: 1 OF 1
REV: B

ROOFTOP PACKAGED AIR CONDITIONER
DIAGRAM
POWER SCHEMATIC - 90-130 TON
W/ SUPPLY AND EXHAUST FAN
VARIABLE FREQUENCY DRIVES

SHT 1 OF 5