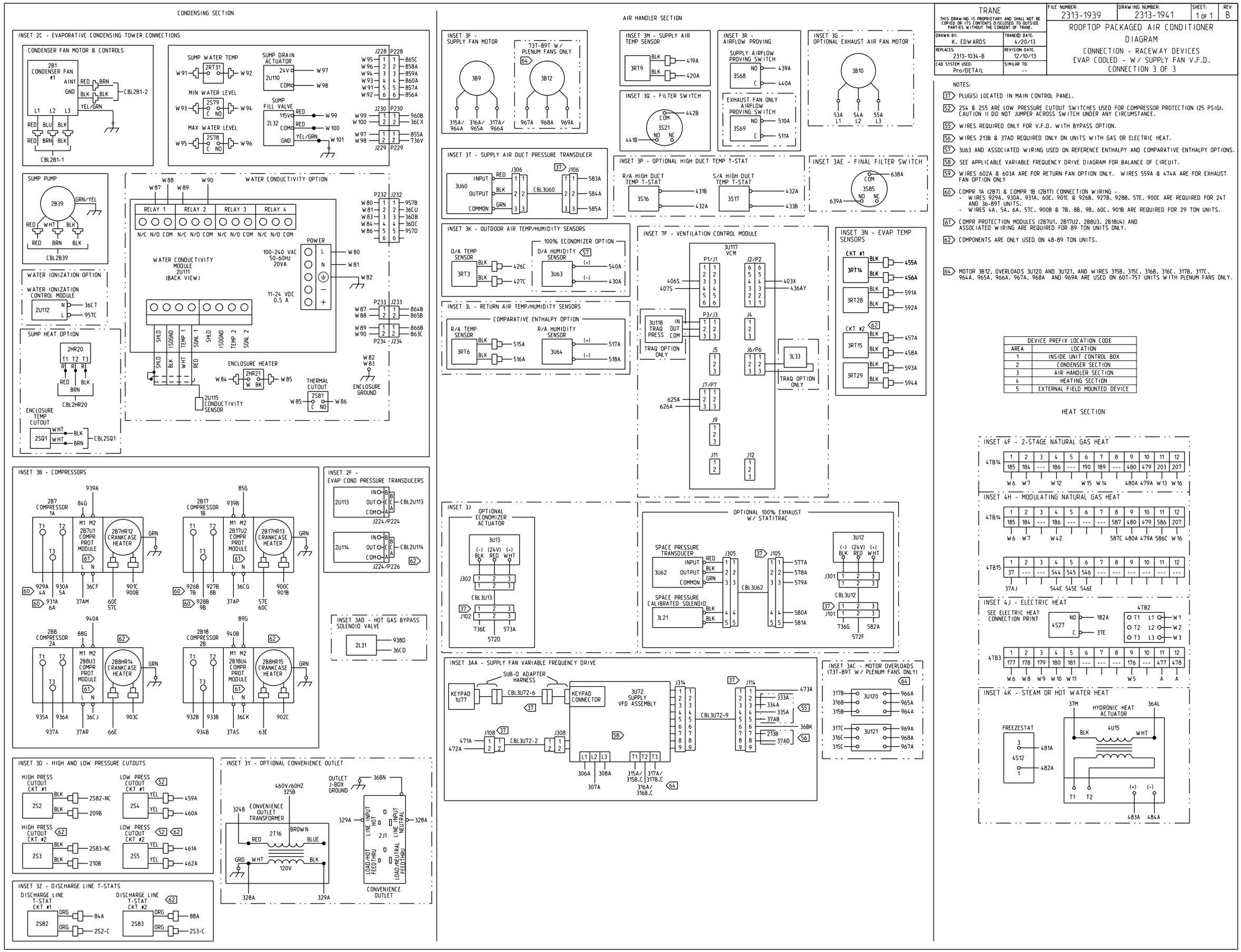
CONDENSING SECTION
INSET 2C - EVAPORATIVE CONDENSING TOWER CONNECTIONS
CONDENSER FAN MOTOR & CONTROLS
2B1 CONDENSER FAN #1
CBL2B1-1
CBL2B1-2
SUMP WATER TEMP
2RT31
SUMP DRAIN ACTUATOR
2U110
MIN WATER LEVEL
2S79
SUMP FILL VALVE
2L32
MAX WATER LEVEL
2S78
J228 P228
J230 P230
J229 P229
SUMP PUMP
2B39
CBL2B39
WATER CONDUCTIVITY OPTION
RELAY 1
RELAY 2
RELAY 3
RELAY 4
WATER CONDUCTIVITY MODULE 2U111 (BACK VIEW)
POWER
100-240 VAC 50-60Hz 20VA
11-24 VDC 0.5 A
P232 J232
P233 J233
P234 J234
WATER IONIZATION OPTION
WATER IONIZATION CONTROL MODULE
2U112
SUMP HEAT OPTION
2HR20
CBL2HR20
ENCLOSURE HEATER
2HR21
THERMAL CUTOUT
2S81
ENCLOSURE GROUND
2U115 CONDUCTIVITY SENSOR
ENCLOSURE TEMP CUTOUT
2SQ1
CBL2SQ1
INSET 3B - COMPRESSORS
2B7 COMPRESSOR 1A
2B7U1 COMPR PROT MODULE
2B7HR12 CRANKCASE HEATER
2B17 COMPRESSOR 1B
2B17U2 COMPR PROT MODULE
2B17HR13 CRANKCASE HEATER
2B8 COMPRESSOR 2A
2B8U3 COMPR PROT MODULE
2B8HR14 CRANKCASE HEATER
2B18 COMPRESSOR 2B
2B18U4 COMPR PROT MODULE
2B8HR15 CRANKCASE HEATER
INSET 2F - EVAP COND PRESSURE TRANSDUCERS
2U113
CBL2U113
J224/P224
2U114
CBL2U114
J224/P226
INSET 3AD - HOT GAS BYPASS SOLENOID VALVE
2L31
INSET 3D - HIGH AND LOW PRESSURE CUTOUTS
HIGH PRESS CUTOUT CKT #1
2S2
2S2-NC
209B
LOW PRESS CUTOUT CKT #1
2S4
459A
460A
HIGH PRESS CUTOUT CKT #2
2S3
2S3-NC
210B
LOW PRESS CUTOUT CKT #2
2S5
461A
462A
INSET 3Z - DISCHARGE LINE T-STATS
DISCHARGE LINE T-STAT CKT #1
2S82
84A
2S2-C
DISCHARGE LINE T-STAT CKT #2
2S83
88A
2S3-C
INSET 3Y - OPTIONAL CONVENIENCE OUTLET
460V/60HZ
325B
CONVENIENCE OUTLET TRANSFORMER
2T16
120V
OUTLET J-BOX GROUND
36BN
CONVENIENCE OUTLET
AIR HANDLER SECTION
INSET 3F - SUPPLY FAN MOTOR
3B9
73T-89T W/ PLENUM FANS ONLY
3B12
INSET 3M - SUPPLY AIR TEMP SENSOR
3RT9
419A
420A
INSET 3R - AIRFLOW PROVING
SUPPLY AIRFLOW PROVING SWITCH
3S68
439A
440A
EXHAUST FAN ONLY AIRFLOW PROVING SWITCH
3S69
510A
511A
INSET 3G - OPTIONAL EXHAUST AIR FAN MOTOR
3B10
INSET 3Q - FILTER SWITCH
3S21
442B
441B
INSET 3T - SUPPLY AIR DUCT PRESSURE TRANSDUCER
3U60
J306
J106
CBL3U60
583A
584A
585A
INSET 3P - OPTIONAL HIGH DUCT TEMP T-STAT
R/A HIGH DUCT TEMP T-STAT
3S16
S/A HIGH DUCT TEMP T-STAT
3S17
INSET 3AE - FINAL FILTER SWITCH
3S85
INSET 3K - OUTDOOR AIR TEMP/HUMIDITY SENSORS
O/A TEMP SENSOR
3RT3
100% ECONOMIZER OPTION
O/A HUMIDITY SENSOR
3U63
INSET 3L - RETURN AIR TEMP/HUMIDITY SENSORS
COMPARATIVE ENTHALPY OPTION
R/A TEMP SENSOR
3RT6
R/A HUMIDITY SENSOR
3U64
INSET 7F - VENTILATION CONTROL MODULE
3U117 VCM
P1/J1
J2/P2
P3/J3
J4
J5
J6/P6
J7/P7
J9
J11
J12
3U118 TRAQ PRESS
TRAQ OPTION ONLY
3L33
INSET 3N - EVAP TEMP SENSORS
3RT14
3RT28
3RT15
3RT29
INSET 3J
OPTIONAL ECONOMIZER ACTUATOR
3U13
J302
J102
CBL3U13
736E
573A
572D
OPTIONAL 100% EXHAUST W/ STATITRAC
SPACE PRESSURE TRANSDUCER
3U62
J305
J105
CBL3U62
SPACE PRESSURE CALIBRATED SOLENOID
3L21
3U12
J301
J101
CBL3U12
736G
582A
572F
INSET 3AA - SUPPLY FAN VARIABLE FREQUENCY DRIVE
SUB-D ADAPTER HARNESS
KEYPAD 1U77
CBL3U72-6
KEYPAD CONNECTOR
3U72 SUPPLY VFD ASSEMBLY
J314
J114
CBL3U72-9
J108
J308
CBL3U72-2
306A
308A
307A
315A/ 315B,C
317A/ 317B,C
316A/ 316B,C
INSET 3AC - MOTOR OVERLOADS (73T-89T W/ PLENUM FANS ONLY)
3U120
3U121
TRANE
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE CONSENT OF TRANE.
FILE NUMBER: 2313-1939
DRAWING NUMBER: 2313-1941
SHEET: 1 OF 1
REV B
DRAWN BY: K. EDWARDS
TRANE® DATE: 4/20/13
REPLACES: 2313-1034-B
REVISION DATE: 12/10/13
CAD SYSTEM USED: Pro/DETAIL
SIMILAR TO: --
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTION - RACEWAY DEVICES
EVAP COOLED - W/ SUPPLY FAN V.F.D.
CONNECTION 3 OF 3
NOTES:
37 PLUG(S) LOCATED IN MAIN CONTROL PANEL.
52 2S4 & 2S5 ARE LOW PRESSURE CUTOUT SWITCHES USED FOR COMPRESSOR PROTECTION (25 PSIG). CAUTION !! DO NOT JUMPER ACROSS SWITCH UNDER ANY CIRCUMSTANCE.
55 WIRES REQUIRED ONLY FOR V.F.D. WITH BYPASS OPTION.
56 WIRES 213B & 37AD REQUIRED ONLY ON UNITS WITH GAS OR ELECTRIC HEAT.
57 3U63 AND ASSOCIATED WIRING USED ON REFERENCE ENTHALPY AND COMPARATIVE ENTHALPY OPTIONS.
58 SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.
59 WIRES 602A & 603A ARE FOR RETURN FAN OPTION ONLY. WIRES 559A & 474A ARE FOR EXHAUST FAN OPTION ONLY
60 COMPR 1A (2B7) & COMPR 1B (2B17) CONNECTION WIRING -
- WIRES 929A. 930A. 931A. 60E. 901C & 926B. 927B. 928B. 57E. 900C ARE REQUIRED FOR 24T AND 36-89T UNITS.
- WIRES 4A. 5A. 6A. 57C. 900B & 7B. 8B. 9B. 60C. 901B ARE REQUIRED FOR 29 TON UNITS.
61 COMPR PROTECTION MODULES (2B7U1. 2B17U2. 2B8U3. 2B18U4) AND ASSOCIATED WIRING ARE REQUIRED FOR 89 TON UNITS ONLY.
62 COMPONENTS ARE ONLY USED ON 48-89 TON UNITS.
64 MOTOR 3B12. OVERLOADS 3U120 AND 3U121. AND WIRES 315B. 315C. 316B. 316C. 317B. 317C. 964A. 965A. 966A. 967A. 968A AND 969A ARE USED ON 60T-75T UNITS WITH PLENUM FANS ONLY.
DEVICE PREFIX LOCATION CODE
AREA LOCATION
1 INSIDE UNIT CONTROL BOX
2 CONDENSER SECTION
3 AIR HANDLER SECTION
4 HEATING SECTION
5 EXTERNAL FIELD MOUNTED DEVICE
HEAT SECTION
INSET 4F - 2-STAGE NATURAL GAS HEAT
4TB14
INSET 4H - MODULATING NATURAL GAS HEAT
4TB14
4TB15
INSET 4J - ELECTRIC HEAT
SEE ELECTRIC HEAT CONNECTION PRINT
4S27
4TB2
4TB3
INSET 4K - STEAM OR HOT WATER HEAT
FREEZESTAT
4S12
HYDRONIC HEAT ACTUATOR
4U15