



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 BY THE FIELD. PHANTOM LINED ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE CO.  
 4 ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL REQUIREMENTS. ALL FIELD WIRING MUST HAVE AN INSULATION VOLTAGE RATING THAT EQUALS OR EXCEEDS UNIT RATED VOLTAGE  
 5 USE CLASS 2 WIRING.  
 9 24V OUTPUT IS RATED 15VA.  
 10 WIRING SHOWN IS FOR MODULATING VALVES. SEE INSET "E" FOR 2-10V VALVES.  
 11 WIRING SHOWN IS FOR 3 WIRE MODULATING DAMPER. SEE INSET "G" FOR 2-10V DAMPER WITH FREEZESTAT. SEE INSET "H" FOR 2-10V DAMPER WITHOUT FREEZESTAT. SEE INSET "J" FOR FREEZESTAT ONLY. SEE INSET "K" FOR 3 WIRE MODULATING DAMPER WITH FREEZESTAT. SEE INSET "N" FOR ERSA CONNECTIONS.  
 12 FIELD WIRING SHOWN IS FOR MODULATING COOLING VALVES. SEE INSET "C" FOR 2-10V COOLING VALVE FIELD CONNECTIONS. FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.  
 13 FIELD WIRING SHOWN IS FOR MODULATING HEATING VALVES. SEE INSET "C" FOR 2-10V HEATING VALVE FIELD CONNECTIONS. FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING. SEE INSET "B" FOR ELECTRIC HEAT FIELD WIRING.  
 14 FIELD WIRING SHOWN IS FOR MODULATING OUTSIDE AIR DAMPER. SEE INSET "A" FOR 2-10V OUTSIDE AIR DAMPER FIELD WIRING.  
 15 SEE ELECTRIC HEAT SCHEMATIC FOR ADDITIONAL ELECTRIC HEAT WIRING.  
 16 SW1 AND SW2 ARE ALWAYS IN THE N.C. POSITION.  
 17 SW3 IS SHOWN IN THE OFF POSITION. SW3 IS SET TO OFF POSITION WHEN DG15=J, O OR DG16=A,B,C,D,E,F,G,H,K,L,M,N,P. SW3 IS SET TO ON POSITION WHEN DG14=E,F AND DG15=B,C,D,E,F,G,H AND DG16=O.  
 18 SW4 IS ALWAYS IN THE OFF POSITION.  
 19 WIRE BI5-EH2 NOT PRESENT ON 2-10V VALVE UNITS.  
 20 SEE INSET "P" FOR FAN STATUS WIRING. DG26 = N.  
 21 FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.

AREA	LOCATION
1	LH CONTROL PANEL
2	LH END POCKET
3	AIR SECTION
4	RH END POCKET
5	TOP ACCESS PANEL
6	FIELD INSTALLED
7	RH CONTROL BOX E-HT

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	CSTI ADAPTER BOARD	81,88
1U4	ENGINE BOARD	83,118
1K6	RELAY; FAN STATUS	81,83
3RT5	DISCHARGE AIR TEMP SENSOR	86
2L1	COOLING COIL VALVE MOTOR	85,114
4L1	COOLING COIL VALVE MOTOR	85,114
6L1	COOLING COIL VALVE MOTOR	85,114
2L2	HEATING COIL VALVE MOTOR	89,118
4L2	HEATING COIL VALVE MOTOR	89,118
6L2	HEATING COIL VALVE MOTOR	89,118
2L3	OUTSIDE AIR DAMPER ACTUATOR	98,102,114,128
2S9	CSTI FREEZESTAT	98,106,114,118
7K2	ELECTRIC HEAT CONTACTOR	108
7K3	ELECTRIC HEAT CONTACTOR	108
3RT3	ENTERING WATER TEMP SENSOR	122
SS13	UNIT MOUNTED FAN SWITCH	132

REPLACES	TRANE	4619-3729
REVISION DATE	REVISION DATE	REVISION DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY
DRAWN BY	DRAWN BY	DRAWN BY
CHECKED BY	CHECKED BY	CHECKED BY
DATE	DATE	DATE
8-APR-2019	8-APR-2019	8-APR-2019
STANDARD TO	STANDARD TO	STANDARD TO
COILS	COILS	COILS
SCHEMATIC DIAGRAM	SCHEMATIC DIAGRAM	SCHEMATIC DIAGRAM
VERTICAL UNIT VENT	VERTICAL UNIT VENT	VERTICAL UNIT VENT
CSTI	CSTI	CSTI
COILS	COILS	COILS