



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 FIELD INSTALLED 2-POSITION 2-WIRE ISOLATION VALVES. SEE INSET "H" FOR MODULATING & 2-10V FIELD INSTALLED VALVE WIRING.

11 WIRING SHOWN IS FOR 3 WIRE MODULATING DAMPER. SEE INSET "B" FOR 2-10V DAMPER WITH FREEZESTAT. SEE INSET "C" FOR 2-10V DAMPER WITHOUT FREEZESTAT. SEE INSET "D" FOR FREEZESTAT ONLY. SEE INSET "E" FOR 3 WIRE MODULATING DAMPER WITH FREEZESTAT.

12 FIELD WIRING SHOWN IS FOR 2-POSITION 2-WIRE ISOLATION COOLING VALVES. SEE INSET "F" FOR MODULATING & 2-10V FIELD INSTALLED COOLING VALVE FIELD CONNECTIONS.

13 FIELD WIRING SHOWN IS FOR 2-POSITION 2-WIRE ISOLATION HEATING VALVES. SEE INSET "F" FOR MODULATING & 2-10V FIELD INSTALLED HEATING VALVE FIELD CONNECTIONS.

14 FIELD WIRING SHOWN IS FOR MODULATING OUTSIDE AIR DAMPER. SEE INSET "A" FOR 2-10V OUTSIDE AIR DAMPER FIELD WIRING.

15 SW1 AND SW2 ARE ALWAYS IN THE N.C. POSITION.

16 SW3 IS SHOWN IN THE OFF POSITION. SW3 IS SET TO OFF POSITION WHEN DG12=E,H,X,K,R,D,G. SW3 IS SET TO ON POSITION WHEN DG12=A.

17 SW4 IS ALWAYS IN OFF POSITION.

18 WIRING IS SHOWN FOR FACE & BYPASS MODULATING. FIELD INSTALLED ACTUATOR UTILIZES THE SAME CONNECTION POINTS AS FACTORY WIRING. SEE INSET "J" FOR FIELD INSTALLED 2-10V WIRING. WIRE B15-EH2 NOT PRESENT ON 2-10V VALVE UNITS.

19 SEE INSET "G" FOR FAN STATUS WIRING. DG15 = N.

DISCONNECT IF FIELD SUPPLIED T-STAT IS USED TO CONTROL SPEED.

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	CSTI ADAPTER BOARD	88,83
1U4	ENGINE BOARD	85,118
1K6	RELAY; FAN STATUS	83,84
3RT5	DISCHARGE AIR TEMP SENSOR	86
6L1	COOLING COIL VALVE MOTOR	92,101,114
4L4	F&B DAMPER ACTUATOR	77,118
6L2	HEATING COIL VALVE MOTOR	96,105,122
2L3	OUTSIDE AIR DAMPER ACTUATOR	111,117,128,129
2S9	CSTI FREEZESTAT	111,120,128
3RT3	ENTERING WATER TEMP SENSOR	125
5S13	UNIT MOUNTED FAN SWITCH	134

DEVICE PREFIX LOCATION CODE	
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

TRANE

4619-3721

SCHMATIC DIAGRAM
HORIZONTAL UNIT VENT
FACE AND BYPASS DAMPER