



NOTES (SHEET TWO):

- 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.
- DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINED ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINES INDICATE WIRING BY TRANE.
- NUMBERS ALONG THE LEFT SIDE OF SCHEMATIC DESIGNATE THE LOCATION OF COMPONENTS BY LINE NUMBER.
- 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.
- VALVE ACTUATOR POWER CONSUMPTION IS 4 WATTS MAXIMUM @24 VAC (DURING VALVE POSITION CHANGE).

7 USE CLASS 2 WIRING.

8 SW1 AND SW2 ARE SHOWN IN THE NC POSITION. SW1 AND OR SW2 ARE IN THE NC POSITION WHEN VALVES ARE NORMALLY CLOSED OR MODULATING. SW1 AND/OR SW2 ARE IN THE NO POSITION WHEN VALVES ARE NORMALLY OPEN. SW1 IS MAIN VALVE (COOLING) AND SW2 IS AUX VALVE (HEATING) FOR FANCOIL AND LOWBOY. SW2 IS MAIN VALVE (HEATING) FOR FF.

9 SW3 IS SHOWN IN THE OFF POSITION. SW3 IS TURNED ON WHEN CHANGEOVER COILS ARE SELECTED.

10 SW4 IS SHOWN IN THE OFF POSITION. SW4 IS TURNED ON WHEN UNIT HAS ELECTRIC HEAT.

11 WIRING SHOWN IS FOR MODULATING VALVES. SEE INSETS "G" AND "H" FOR 2-10V ANALOG VALVE WIRING. SEE INSETS "J" AND "K" FOR 2 POSITION VALVE WIRING. FIELD SUPPLIED ACTUATOR UTILIZES THE SAME CONNECTION POINTS AS FACTORY WIRING.

12 WIRING SHOWN IS FOR TWO POSITION DAMPER. SEE INSET "M" FOR ECONOMIZER DAMPER WIRING. SEE INSET "N" FOR CONDENSATE OVERFLOW WIRING.

13 WIRING SHOWN IS FOR UNIT MOUNTED VARIABLE SPEED CONTROL (CTRL = 8). SEE INSET "R" FOR UNITS WITH NO SPEED CONTROL (CTRL = 0). SEE INSET "T" FOR WALL MOUNTED VARIABLE SPEED CONTROL WIRING (CTRL = 9).

14 FIELD CONNECTIONS SHOWN ON TB3-6 TB3-7, TB3-10 AND TB3-11 ARE FOR UNITS WITH MODULATING VALVES. SEE INSETS "A" AND "B" FOR TWO POSITION VALVE WIRING. SEE INSETS "D" AND "E" FOR ANALOG VALVES. FIELD SUPPLIED ACTUATOR UTILIZES THE SAME CONNECTION POINTS AS FACTORY WIRING. SEE INSET "F" FOR SINGLE STAGE ELECTRIC HEAT FIELD WIRING.

15 FIELD CONNECTIONS SHOWN ON TB3-12 AND TB3-13 ARE FOR UNITS WITH CONDENSATE OVERFLOW. SEE INSET "C" FOR ECONOMIZER DAMPER WIRING.

16 ELECTRIC HEAT WIRING SHOWN ON SHEETS 23114699 THRU 23114714.

17 WIRING SHOWN IS FOR CSTI WITH FAN STATUS (CTYP = N).

18 OPTION NOT AVAILABLE ON LOW VERTICAL (MODL=K,L).

19 24V OUTPUT IS RATED 15VA

20 FIELD SUPPLIED ACTUATOR WIRING UTILIZES THE SAME CONNECTION POINTS AS FACTORY ACTUATOR WIRING.

21 VALVES SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE VALVE SIGNAL BECOMES CLOSE.

LEGEND

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	CSTI ADAPTER BOARD	88
1U3	ECM ENGINE BOARD	114
3L1	COOLING/ CHANGEOVER VALVE	87,100,110
7L1	COOLING/ CHANGEOVER VALVE	87,100,110
3L2	HEATING COIL VALVE	94,103,114
7L2	HEATING COIL VALVE	94,103,114
2L2	ECON DAMPER ACTUATOR	119
2L2	DAMPER ACTUATOR	121
1K6	CSTI FAN STATUS RELAY	111,112
3RT1	AUTOCHG TEMP SENSOR	116
3S8	CONDENSATE OVERFLOW	118
1S13	CSTI UNIT MNTD FAN SWITCH	124
6S13	CSTI WALL MNTD FAN SWITCH	124

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL
2	CONTROL END
3	PIPING END
4	FAN SECTION
5	COIL SECTION
6	CUSTOMER INSTALLED
7	FIELD SUPPLIED DEVICE

REPLACES

TRANE

3518-6103

SCHEMATIC DIAGRAM

FANCOIL/ FORCEFLO/ LOW VERTICAL

CSTI/ CSTI FAN STATUS-STANDARD COIL

SHEET 2

DATE 28-FEB-2019

DESIGNED BY M.VELAZQUEZ

REVISION DATE

REPLACES

TRANE

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WARNING

Customer Controller must NOT allow electric heat actuation without the fan being energized.