



NOTES:

- 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.
- 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.

FIELD CONNECTIONS SHOWN ON TB3-10 AND TB3-11 ARE FOR HEATING MODULATING VALVES. FOR FIELD CONNECTIONS TO HEATING 2 POSITION VALVES, SINGLE STAGE EH AND SCR EH, SEE INSET "A".

WIRING SHOWN IS FOR MODULATING VALVES. FOR HEATING 2 POSITION VALVE SELECTIONS, SEE INSET "C".

SW1 AND SW2 ARE SHOWN IN THE OFF POSITION. SW1 AND OR SW2 ARE TURNED OFF WHEN COIL 1 OR COIL 2 CONTROL VALVES ARE NORMALLY CLOSED OR MODULATING. SW1 AND/OR SW2 ARE TURNED ON WHEN COIL 1 OR COIL 2 CONTROL VALVES ARE NORMALLY OPEN.

SW3 IS SHOWN IN THE OFF POSITION. SW3 IS TURNED ON WHEN CHANGEOVER COILS ARE SELECTED (6R DX 3/16", 4R DX 3/16" HEAT PUMP).

SW4 IS SHOWN IN THE OFF POSITION. SW4 IS TURNED ON WHEN UNIT HAS ELECTRIC HEAT(1-STAGE, 2-STAGE, SCR).

WIRING SHOWN IS FOR SINGLE STAGE DX SELECTION.

24V OUTPUT IS RATED 15VA

FIELD INSTALLED CONDENSING UNIT CAN BE WIRED BETWEEN TERMINALS 1TB1-1 TO 1TB1-2 FOR SINGLE STAGE. REMOVE RESISTOR 1R1 PRIOR TO WIRING CONDENSOR. DX1 OUTPUTS RATED FOR 24VAC 6VA MAXIMUM.

WIRING SHOWN IS FOR FACTORY INSTALLED MODULATING DAMPER. FOR CONDENSATE OVERFLOW JUMPER, SEE INSET "D". FOR 2 POSITION DAMPER AND MODULATING FIELD SUPPLIED/ SHIP LOOSE DAMPER WIRING, SEE INSET "E".

REMOVE TEST JUMPER PRIOR TO CONNECTING MIXING BOX TO MAIN UNIT.

FIELD CONNECTIONS SHOWN ON TB3-12 AND TB3-13 ARE FOR MODULATING DAMPER. FOR 2 POSITION DAMPER AND CONDENSATE OVERFLOW FIELD WIRING, SEE INSET "B".

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

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

DAMPER SHOWN IN NORMALLY CLOSED POSITION, FOR NORMALLY OPEN POSITION, THE DAMPER SIGNAL BECOMES CLOSE.

FIELD CONNECTIONS FOR SCR EH ARE IN THE HEATER BOX.

WIRING IS SHOWN WITH CONDENSATE OVERFLOW SWITCH. SEE INSET D FOR WIREDED CONDENSATE OVERFLOW JUMPER. FOR UNITS WITHOUT COILS OR UNITS WITHOUT CONDENSATE OVERFLOW, THERE IS NO FACTORY WIRED CONDENSATE OVERFLOW SWITCH

| AREA | LOCATION                    |
|------|-----------------------------|
| 1    | MAIN CONTROL PANEL          |
| 2    | SUPPLY FAN AND COIL SECTION |
| 3    |                             |
| 4    | MIXING BOX                  |
| 5    | EXTERNAL PIPING             |
| 6    | ELECTRIC HEAT CONTROL BOX   |
| 7    | FIELD INSTALLED DEVICE      |

| DEVICE DESIGNATION | DESCRIPTION                 | LINE NUMBER |
|--------------------|-----------------------------|-------------|
| 1U2                | ADAPTER BOARD               | 88,80       |
| 1U4                | ENGINE BOARD                | 83,114      |
| 2S3                | EL HT LOCKOUT SWITCH        | 109         |
| 6K6                | CONTACTOR; EL HT STG 1      | 111         |
| 6S8                | EL HT HIGH TEMP             | 112         |
| 1K2                | CONTACTOR; EL HT            | 111         |
| 1K6                | RELAY; FAN STATUS           | 80,83       |
| 5L2                | HEATING COIL VALVE MOTOR    | 98,123      |
| 7L2                | HEATING COIL VALVE MOTOR    | 98,123      |
| 2S1                | CONDENSATE OVERFLOW SWITCH  | 126         |
| 2S2                | FROSTSTAT                   | 128         |
| 1R1                | RESISTOR; DX STG 1 TEST     | 118         |
| 2S4                | FROSTSTAT                   | 119         |
| 7L3                | MIXING BOX DAMPER ACTUATOR  | 111         |
| 7L4                | OUTSIDE AIR DAMPER ACTUATOR | 111,114     |
| 4L1                | MIXING BOX DAMPER ACTUATOR  | 133         |
| 7S1                | FAN SPEED SW                | 89          |
| 2U5                | LEAK DETECTION SENSOR       | 124         |

TRANE  
50263586  
SCHEMATIC  
CSTI-DX COIL W/1 STG OR SCR EH AND A2L BLOWER COIL - BOXE