



DEVICE PREFIX LOCATION CODE	
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

NOTES (SHEET TWO):

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F), 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.
- ELECTRIC HEAT SCHEMATIC IS LOCATED IN THE ELECTRIC HEAT CONTROL BOX PANEL.
- WIRING SHOWN IS FOR TWO STAGE ELECTRIC HEAT.
- USE CLASS 2 WIRING.
- FIELD CONNECTIONS SHOWN ON TB3-6 IS FOR ONE STAGE DX.
- FIELD CONNECTIONS SHOWN ON TB3-10 AND TB3-11 ARE FOR TWO STAGE ELECTRIC HEAT.
- WIRING IS FOR MODULATING VALVES. FOR COOLING 2 POSITION VALVE, SEE INSET "D". FOR HEATING 2 POSITION VALVE, SEE INSET "E".
- SW1 AND SW2 ARE SHOWN IN THE OFF POSITION. SW1 AND 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 ONE STAGE DX WITH TWO STAGE ELECTRIC HEAT SELECTION.
- FIELD INSTALLED CONDENSING UNIT IS TO 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.
- FIELD CONNECTIONS SHOWN ON TB3-12 AND TB3-13 ARE FOR MODULATING DAMPER. FOR 2 POSITION DAMPER AND CONDENSATE OVERFLOW FIELD WIRING, SEE INSET "A".
- WIRING SHOWN IS FOR MODULATING DAMPER. DAMPER. FOR CONDENSATE OVERFLOW JUMPER, SEE INSET "B". FOR 2 POSITION DAMPER AND MODULATING FIELD SUPPLIED/ SHIP LOOSE DAMPER WIRING, SEE INSET "C".
- REMOVE TEST JUMPER PRIOR TO CONNECTING MIXING BOX TO MAIN UNIT.
- SEE INSET "D" FOR FAN STATUS WIRING.
- 24V OUTPUT IS RATED 15VA
- WIRING IS SHOWN WITH CONDENSATE OVERFLOW SWITCH. SEE INSET B FOR REQUIRED CONDENSATE OVERFLOW JUMPER. FOR UNITS WITHOUT COILS OR UNITS WITHOUT CONDENSATE OVERFLOW, THERE IS NO FACTORY WIRED CONDENSATE OVERFLOW SWITCH.
- WIRING SHOWN IS FOR BCHE/BCVE WITH LOW LIMIT/FREEZE STAT. FOR UNITS WITHOUT LOW LIMIT/FREEZE STAT OR WITHOUT COILS, THERE IS NO FACTORY WIRED LOW LIMIT/FREEZE STAT SWITCH.

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U2	ADAPTER BOARD	79,88
1U4	ENGINE BOARD	82,114
2S3	EL HT LOCKOUT SWITCH	105
6K6	CONTACTOR; EL HT STG 1	107
6S8	EL HT HIGH TEMP	108
1K2	CONTACTOR; EL HT	108
1K3	CONTACTOR; EL HT	110
6K7	CONTACTOR; EL HT STG 2	109
2S1	CONDENSATE OVERFLOW SWITCH	125
2S2	FREZEZSTAT	127
1K1	RELAY; DX STATUS	117,120
1K4	RELAY; EL HT STG 2 STATUS	117,120
1R1	RESISTOR; DX STG 1 TEST	114
1R3	RESISTOR; LOADING	119
2S4	FROST STAT	115
1K6	RELAY; FAN STATUS	80,81
4L1	MIXING BOX DAMPER ACTUATOR	134
7L3	MIXING BOX DAMPER ACTUATOR	98
7L4	OUTSIDE AIR DAMPER ACTUATOR	98,102
7S1	FAN SPEED SW	89

TRANE
50262933
SCHEMATIC
CST1-DX COIL w/ TWO STAGE EH
BLOWER COIL - BOKE

REVISED DATE: 28-SEP-2025
DRAWN BY: J. XI
DATE: 28-SEP-2025