



NOTE(S):

- 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 INSULATION VOLTAGE RATING THAT EQUALS OR EXCEEDS UNIT RATED VOLTAGE.

4 ELECTRIC HEAT SCHEMATIC IS LOCATED IN THE ELECTRIC HEAT CONTROL BOX PANEL.

5 WIRING SHOWN IS FOR TWO STAGE ELECTRIC HEAT. FOR SINGLE STAGE EH, SCR ELECTRIC HEAT SINGLE PHASE AND SCR ELECTRIC HEAT THREE PHASE, SEE INSET "A".

7 SEE SHEET 5026-2938 FOR DAMPER CONNECTIONS.

8 WIRING SHOWN IS FOR FACTORY INSTALLED DISCHARGE AIR SENSOR. FOR FIELD INSTALLED DISCHARGE AIR SENSOR SEE INSET "E".

9 WIRING SHOWN IS FOR CO2 SENSOR. FOR WIRELESS HUMIDITY SENSOR SEE INSET "F". FOR WIRED HUMIDITY SENSOR SEE INSET "G".

10 SEE SHEET 5026-2938 FOR ZONE SENSOR CONNECTIONS.

11 USE CLASS 2 WIRING.

12 COMMUNICATION WIRE MUST BE TRANE PART NO. 400-20-28, OR WINDY CITY OR CONNECT AIR "LEVEL 4" CABLE, MAXIMUM OF 4500 FOOT AGGREGATE RUN. CAUTION DO NOT RUN POWER IN THE SAME CONDUIT OR WIRE BUNDLE WITH COMMUNICATION LINK. FOR ADDITIONAL INFORMATION REFER TO EMTX-EB-88.

14 CONFIGURE THE CO2 SENSOR FOR 4-20mA OPERATION USING THE OUT2 JUMPER SUPPLIED WITH THE SENSOR.

16 WIRING SHOWN IS FOR SINGLE STAGE DX SELECTION. FOR DUAL STAGE DX SELECTION, SEE INSET "B". FOR HEAT PUMP W/ SINGLE STAGE DX SELECTION, SEE INSET "G". FOR HEAT PUMP W/ DUAL STAGE DX SELECTION, SEE INSET "H".

17 WIRING SHOWN IS FOR MODULATING HEATING VALVE SELECTION. FOR 2 POSITION AND 2-10V HEATING VALVE OPTIONS, SEE INSET "C".

18 FIELD INSTALLED CONDENSING UNIT CAN BE WIRING BETWEEN TERMINALS 1TB5-1 TO 1TB5-2 FOR SINGLE STAGE. FOR DUAL STAGE, WIRED BETWEEN TERMINALS 1TB5-2 TO 1TB5-3, OR 1TB5-1 TO 1TB5-4.

19 FOR REVERSING VALVE, TO WIRES BETWEEN TERMINALS 1TB5-2 TO 1TB5-3. REMOVE RESISTOR PRIOR TO WIRING CONDENSER. DX OUTPUTS RATED FOR 24VAC 6VA MAXIMUM.

19 W1 PRESENT ON BCVE UNITS ONLY. REMOVE W1 PRIOR TO CONNECTING COIL SECTION TO FAN SECTION AND INSTALLING WIRING TO 2S4.

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.

22 WIRING SHOWN IS FOR THE UNIT WITH UC400-B OR SYMBIO 400-B W/WCI.

23 WIRING SHOWN IS FOR BCHE/BCVE UNIT WITH CONDENSATE EXTENDER FOR SIZE 24 THROUGH 120. FOR SIZES 12 AND 18 SEE INSET D FOR CONDENSATE WITHOUT EXTENDER.

24 WIRING SHOWN IS FOR ANALOG AND NON ANALOG VALVES. FOR HEAT PUMP SEE INSET "J".

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

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1U1	UC400-B, SYMBIO 400-B	74
1U4	ENGINE BOARD	115
2S3	EL HT LOCKOUT SWITCH	81,122
6K6	CONTACTOR; EL HT STG 1	82,118
6S8	EL HT HIGH TEMP	82,118
6K7	CONTACTOR; EL HT STG 2	83
6U1	SCR CONTROLLER	126,133
6U2	SCR CONTROLLER	135
2U3	AIR-FI WIRELESS COM INTERFACE	86
1R1	RESISTOR; DX STG 1 TEST	89,119,124,131
1R2	RESISTOR; DX STG 2/ HEAT PUMP TEST	117,123,130
1R3	RESISTOR; DX STG 2 TEST	129
5L2	HEATING COIL VALVE MOTOR	94,120
7L2	HEATING COIL VALVE MOTOR	94,120,128
2RT1	DISCHARGE AIR TEMP SNSR	89
7U3	CO2 SENSOR	92
2S1	CONDENSATE OVERFLOW SWITCH	96,105
7RT2	OUTSIDE AIR TEMP SENSOR	96
2S2	FREESTAT	98
5RT1	ENTERING WATER TEMP SENSOR	100
7RT1	FLD INSTALLED DAT SENSOR	110
7E3	FLD INSTALLED RH SENSOR	113
2S4	FROSTSTAT	85
2U5	LEAK DETECTION SENSOR	93

REPLACES 50263588

DATE 05-FEB-2025

DRAWN BY G.HUDGINS

SMALLER TO

TRANE

SCHEMATIC SYMBIO 400-B DX COIL WITH AXL BLOWER COIL - BXBX