

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 LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROWHEAD BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.
- 4 460V/60HZ TRANSFORMER SHOWN. SEE INSET "1A" FOR 575V/60HZ & 380V/50HZ CONNECTIONS.
- 5 460V/60HZ TRANSFORMER SHOWN. SEE INSET "1B" FOR 575V/60HZ & 380V/50HZ CONNECTIONS.
- 6 460V/60HZ TRANSFORMER SHOWN. SEE INSET "1C" FOR 575V/60HZ TRANSFORMER.
- 7 SEE APPLICABLE VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.
- 8 SEE APPLICABLE HEATING SECTION DIAGRAM FOR BALANCE OF CIRCUIT.
- 9 OPTIONAL REMOTE PANEL (9U43) OR ZONE PANEL (9U42) OR REMOTE ZONE PANEL WITH NIGHT SET BACK (9U44) MAY BE USED WITH CV UNITS.
- 10 FOR OPTIONAL REMOTE ZONE TEMPERATURE SENSOR (9U39), DO NOT CONNECT TERMINAL 1 OF 9U43, 9U42, OR 9U41 AND CONNECT AS SHOWN. 9U39 IS USED FOR: 1) CV REMOTE ZONE TEMP SENSING, OR 2) VAV UNOCCUPIED HEAT/COOL TEMP CONTROL SENSING.
- 11 OPTIONAL REMOTE ZONE TEMPERATURE SENSOR (9U39) WITH OPTIONAL TIMED OVERRIDE INITIATE BUTTON.
- 12 OPTIONAL REMOTE PANEL (9U41) OR REMOTE PANEL WITH NIGHT SET BACK (9U44) MAY BE USED WITH VAV UNITS.
- 13 WHEN REMOTE ZONE TEMP SENSOR (9U40) IS USED, ATTACH TO TERMINALS S1 AND S2 ON 9U44.
- 14 FOR RETURN FAN PROVING INSTALL METAL JUMPER BETWEEN 1TB13-11 AND 1TB13-12. FOR OPTIONAL EXHAUST FAN PROVING INSTALL PRESSURE SWITCH 8S16 AND ASSOCIATED WIRING BETWEEN 1TB13-11 AND 1TB13-12.
- 15 WHEN HIGH DUCT TEMP T-STAT OPTION IS PROVIDED, REMOVE JUMPER BETWEEN 1TB13-23 AND 1TB13-24. REMOVE JUMPER BETWEEN 1TB4-15 AND 1TB4-16 AND INSTALL FIELD PROVIDED EMERGENCY STOP SWITCH (9S35) WHEN REQUIRED.
- 16 REMOVE JUMPER AND INSTALL EXTERNAL AUTO/STOP (9S34) WHEN REQUIRED.
- 17 FIELD SUPPLIED AND INSTALLED OCCUPIED/UNOCCUPIED CONTACTS (9K29) FOR USE ON UNITS WITHOUT REMOTE PANEL WITH NIGHT SET BACK (9U44).
- 18 CHANGEOVER VALVE (9K30) AVAILABLE ONLY ON HYDRONIC HEAT UNITS OR MODULATING GAS HEAT UNITS.
- 19 EXHAUST ACTUATORS 8U35 AND 8U26 ARE CONNECTED AS SHOWN ONLY ON UNITS WITHOUT STATITRAC. REFER TO THE EXHAUST/COMPARATIVE ENTHALPY MODULE (1U5) FOR EXHAUST ACTUATOR CONTROL ON UNITS WITH STATITRAC.
- 20 ALARM OUTPUT ACTIVATES ON ANY MAPPED DIAGNOSTIC.
- 21 7U30 AND ASSOCIATED WIRING USED ON REFERENCE ENTHALPY AND COMPARATIVE ENTHALPY OPTIONS ONLY.
- 22 CAUTION: DO NOT JUMPER ACROSS SWITCH UNDER ANY CIRCUMSTANCES. 2S9 & 2S10 ARE LOW PRESSURE CUTOUT SWITCHES USED FOR COMPRESSOR PROTECTION (7 PSIG).
- 23 9U47, OPTIONAL MORNING WARM-UP TEMP SENSOR, IS USED FOR MORNING WARM-UP CONTROL ON UNITS WITH HEATING OPTION.
- 24 SEE APPLICABLE 5U16 VARIABLE FREQUENCY DRIVE DIAGRAM FOR BALANCE OF CIRCUIT.
- 25 DUAL ACTUATOR CONFIGURATION SHOWN. FOR SINGLE ACTUATOR CONFIGURATION, REMOVE "Y" ADAPTER HARNESS (CBL-Y1/-Y2). FOR 1GV WITH SINGLE ACTUATOR, CONNECT 5J49 TO 5U36 PIGTAIL CONNECTOR. FOR EXHAUST DAMPER, CONNECT 8J23 TO 8U35 PIGTAIL CONNECTOR.
- 26 JUMPER BETWEEN 1TB16-13 AND 1TB16-14 USED ON ELECTRIC HEAT AND 2-STAGE NATURAL GAS HEAT (850MBH & 1100MBH) ONLY.
- 27 ENERGY RECOVERY WHEEL NOT AVAILABLE WITH 380V/50HZ.
- 28 OPTIONAL CONVENIENCE OUTLET NOT AVAILABLE WITH 380V/50HZ.
- 29 OPTIONAL MARINE LIGHT 4DS1 NOT AVAILABLE ON BLANK CASING UNITS WITH GAS OR ELECTRIC HEAT.
- 30 460V/60HZ CONNECTIONS SHOWN. SEE INSET FOR 575V/60HZ CONNECTIONS.
- 31 WIRE W22 IS CONNECTED TO 1TB14-19 ON STANDARD MODULATING GAS UNITS. FOR MODULATING GAS UNITS WITH CHILLED WATER, WIRE W22 IS CONNECTED TO 1TB14-21 AND WIRE 545M IS CONNECTED TO 1TB14-19.

DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	INSIDE UNIT CONTROL BOX
2	CONDENSER SECTION
3	INSIDE SECONDARY CONTROL BOX
4	HEAT/EXTENDED CASING SECTION
5	SUPPLY FAN SECTION
6	EVAP SECTION
7	DAMPER/FILTERS SECTION
8	EXHAUST/RETURN FAN SECTION
9	EXTERNAL FIELD MTD DEVICE

CONTACTOR COIL LOCATIONS		
DEV DES	DESCRIPTION	SHEET NO.
1K1 - 1K4	CONTACTOR - COMPRESSOR	SHEET 3 OF 7
1K5	CONTACTOR - SUPPLY FAN	SHEET 2 OF 7
1K6	CONTACTOR - EXH/RTN FAN	SHEET 2 OF 7
1K9 - 1K12	CONTACTOR - CONDENSER FAN	SHEET 3 OF 7
1K38	CONTACTOR - ENERGY RECOVERY	SHEET 3 OF 7

TERMINAL STRIP LEGEND	
DEV DES	DESCRIPTION
1TB4-1TB8, 1TB29	CONTROLS - CUSTOMER CONNECTION
1TB9, 1TB11-1TB16	CONTROLS - FACTORY
1TB10	24 VAC - FACTORY
1TB17, 1TB18	115 VAC - FACTORY
4TB20	2-STAGE GAS HEAT (<1800MBH)
4TB21	2-STAGE GAS HEAT (1800/2500MBH)
4TB23	MODULATING GAS HEAT
4TB24	ELECTRIC HEAT

TRANE		FILE NUMBER:	DRAWING NUMBER:	SHEET:	REV
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		ROOFTOP PACKAGED AIR CONDITIONER			
		DIAGRAM			
		SCHEMATIC NOTES & SPECIFICATIONS			
DRAWN BY: K.EDWARDS		TRANE® DATE: 12-11-06		UNIT SHEET 7 OF 7	
REPLACES:		REVISION DATE: 10-28-09			
CAD SYSTEM USED: PRO/DIAGRAM		SIMILAR TO:			