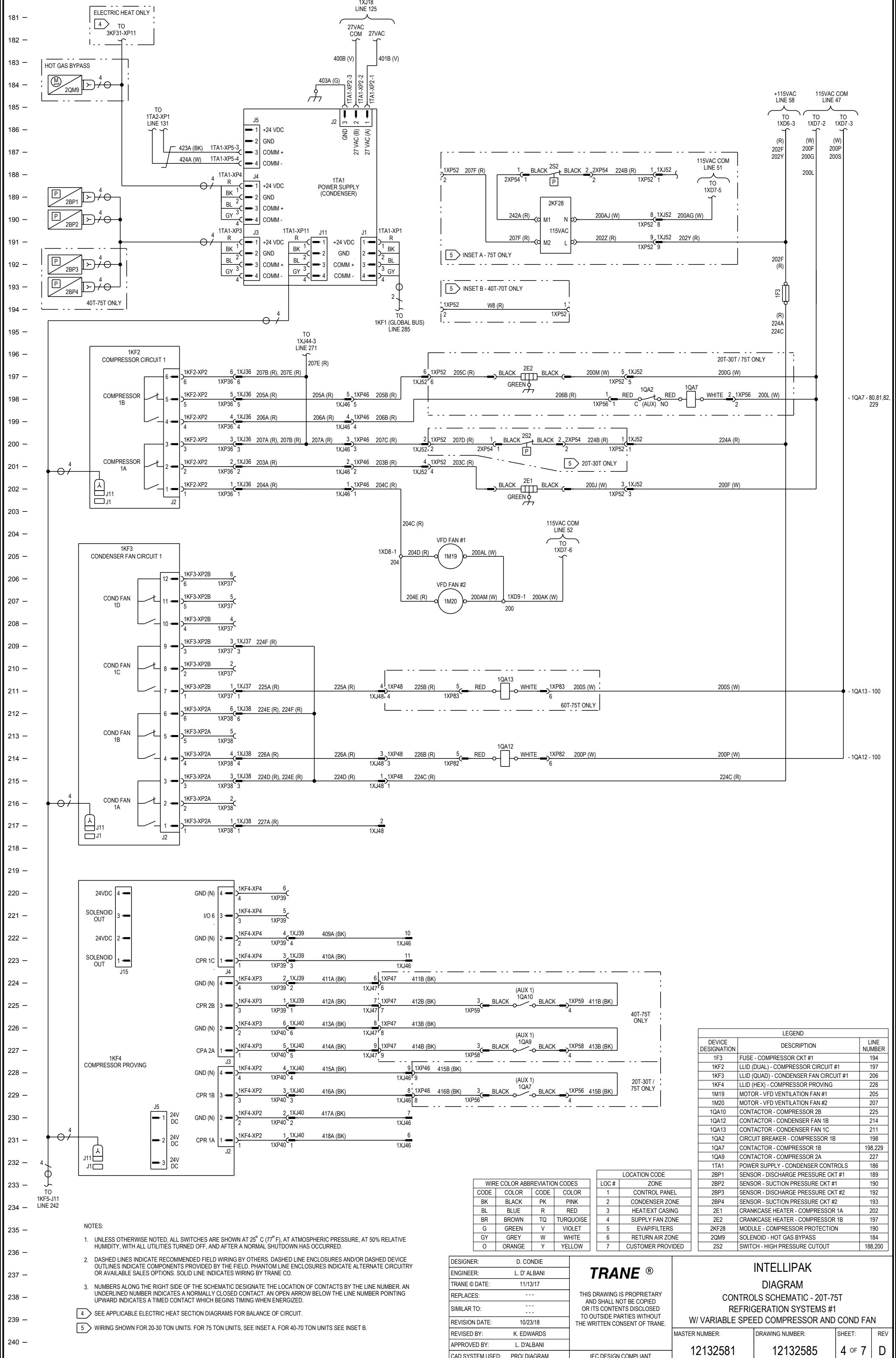




- 1QA7 - 80,81,82, 229

- 1QA12 - 100

- 1QA13 - 100

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1F3	FUSE - COMPRESSOR CKT #1	194
1KF2	LLID (DUAL) - COMPRESSOR CIRCUIT #1	197
1KF3	LLID (QUAD) - CONDENSER FAN CIRCUIT #1	206
1KF4	LLID (HEX) - COMPRESSOR PROVING	226
1M19	MOTOR - VFD VENTILATION FAN #1	205
1M20	MOTOR - VFD VENTILATION FAN #2	207
1QA10	CONTACTOR - COMPRESSOR 2B	225
1QA12	CONTACTOR - CONDENSER FAN 1B	214
1QA13	CONTACTOR - CONDENSER FAN 1C	211
1QA2	CIRCUIT BREAKER - COMPRESSOR 1B	198
1QA7	CONTACTOR - COMPRESSOR 1B	198,229
1QA9	CONTACTOR - COMPRESSOR 2A	227
1TA1	POWER SUPPLY - CONDENSER CONTROLS	186
2BP1	SENSOR - DISCHARGE PRESSURE CKT #1	189
2BP2	SENSOR - SUCTION PRESSURE CKT #1	190
2BP3	SENSOR - DISCHARGE PRESSURE CKT #2	192
2BP4	SENSOR - SUCTION PRESSURE CKT #2	193
2E1	CRANKCASE HEATER - COMPRESSOR 1A	192
2E2	CRANKCASE HEATER - COMPRESSOR 1B	207
2KF28	MODULE - COMPRESSOR PROTECTION	190
2QM9	SOLENOID - HOT GAS BYPASS	184
2S2	SWITCH - HIGH PRESSURE CUTOUT	188,200

WIRE COLOR ABBREVIATION CODES			
CODE	COLOR	CODE	COLOR
BK	BLACK	PK	PINK
BL	BLUE	R	RED
BR	BROWN	TQ	TURQUOISE
G	GREEN	V	VIOLET
GY	GRAY	W	WHITE
O	ORANGE	Y	YELLOW

LOCATION CODE	
LOC #	ZONE
1	CONTROL PANEL
2	CONDENSER ZONE
3	HEAT/EXT CASING
4	SUPPLY FAN ZONE
5	EVAP/FILTERS
6	RETURN AIR ZONE
7	CUSTOMER PROVIDED

DESIGNER:	D. CONDIE
ENGINEER:	L. D'ALBANI
TRANE © DATE:	11/13/17
REPLACES:	---
SIMILAR TO:	---
REVISION DATE:	10/23/18
REVISED BY:	K. EDWARDS
APPROVED BY:	L. D'ALBANI
CAD SYSTEM USED:	PRO/ DIAGRAM

TRANE ®

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INTELLIPAK

DIAGRAM

CONTROLS SCHEMATIC - 20T-75T

REFRIGERATION SYSTEMS #1

W/ VARIABLE SPEED COMPRESSOR AND COND FAN

MASTER NUMBER:	DRAWING NUMBER:	SHEET:	REV
12132581	12132585	4 OF 7	D

- 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 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.
 - NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY THE LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROW BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.
- 4 SEE APPLICABLE ELECTRIC HEAT SECTION DIAGRAMS FOR BALANCE OF CIRCUIT.
- 5 WIRING SHOWN FOR 20-30 TON UNITS. FOR 75 TON UNITS, SEE INSET A. FOR 40-70 TON UNITS SEE INSET B.