



**WIRE COLOR DESIGNATION**

ABBR	COLOR	ABBR	COLOR
BL	BLUE	O	ORANGE
BK	BLACK	R	RED
BR	BROWN	V	VIOLET (PURPLE)
G	GREEN	W	WHITE
GY	GRAY (SLATE)	Y	YELLOW

**LEGEND**

DEVICE	DESCRIPTION	LINE
CC1	COMPRESSOR CONTACTOR	9,10,11,29
CCH1	CRANKCASE HEATER	12
CF1	OUTDOOR FAN CAPACITOR	8
CHR1	CRANKCASE HEATER RELAY	12,30
COMM	COMMUNICATION INTERFACE MODULE	50
CPR1	COMPRESSOR	10
CTS1	OUTDOOR COIL TEMP SENSOR	57
DTL1	DISCHARGE TEMPERATURE LIMIT	30
FTB1	FAN TERMINAL BLOCK	10,12,18
HPC1	HIGH PRESSURE CUTOFF	30
HTB	HIGH VOLTAGE TERMINAL BLOCK	5
LPC1	LOW PRESSURE CUTOFF	28
LTB1	LOW VOLTAGE TERMINAL BLOCK	24,27,29,43,44,45
LTB2	LOW VOLTAGE TERMINAL BLOCK	23,25,43,44,45
OAS	OUTDOOR AIR TEMP SENSOR	47
ODF1	OD FAN RELAY	8,12,32
ODM1	OUTDOOR FAN MOTOR	8
PM	PHASE MONITOR	9,22
RTRM	RELIATEL REFRIGERATION MODULE	26
SOV1	SWITCHOVER VALVE	27
TNS1	TRANSFORMER - CONDENSER	20
TNS2	TRANSFORMER - CONDENSER	23

**WARNING**  
HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

**AVERTISSEMENT**  
TENSION DANGEREUSE!  
COUPER TOUTES LES TENSIONS ET OUVRIER LES SECTIONNEURS A DISTANCE. PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAINEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS.

**ADVERTENCIA**  
¡VOLTAJE PELIGROSO!  
DESCONECTE TODA LA ENERGIA ELÉCTRICA, INCLUIDO LAS DESCONECIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON EJE DE DIRECCION DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR.

**CAUTION**  
USE COPPER CONDUCTORS ONLY!  
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

**ATTENTION**  
N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!  
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

**PRECAUCIÓN**  
¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!  
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

**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 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.

**TRAINING**

DATE	2/23/10
BY	DAVID L. ALLEN
REVISION	1
DATE	2/23/10
BY	DAVID L. ALLEN

**CONDENSER UNIT - HEAT PUMP - R22 ORY SHIP**

7-51 (ALL VOLTAGES) & 101/74/60/60HZ

**TRAINING NUMBER**  
2313-04-57

**DRAWING NUMBER**  
007555Y

**DIAGRAM**  
CONDENSER UNIT - HEAT PUMP - R22 ORY SHIP

**SHEET SIZE:** 11" X 17"

**FILE NUMBER**  
2313-04-57

**1 OF 1**

**REV**  
A

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  - CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRES 1C (R) AND 1G (R) FROM 230V TERMINAL ON UNIT TRANSFORMERS (TNS1 AND TNS2) TO 208V TERMINAL.
  - CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. FOR 460V/60HZ/3PH MODELS, SEE INSET 1A.
  - CAUTION: DO NOT JUMPER ACROSS SWITCHES DTL1, LPC1 AND HPC1 UNDER ANY CIRCUMSTANCES.
  - NOTICE: DO NOT OPERATE OR APPLY POWER TO COMPRESSORS WHILE UNDER A VACUUM. FAILURE TO FOLLOW THESE INSTRUCTIONS WILL RESULT IN COMPRESSOR FAILURE.
  - INSTALL OPTIONAL REMOTE ZONE SENSOR TO TERMINALS S1 AND S2 WHEN REQUIRED. SEE PROGRAMMABLE ZONE SENSOR W/ NSB LITERATURE FOR OPTION CONFIGURATION.
  - IF EVAPORATOR DEFROST CONTROL (EDC) IS USED ON INDOOR UNIT, REMOVE JUMPER WIRE W1 (R) BETWEEN TERMINALS "CD" AND "R" ON LTB1.
  - SEE HEATER ACCESSORY DIAGRAM FOR DETAILS OF HEATER WIRING.
  - TO ENABLE ELECTRIC HEAT, CUT WIRE 55A (BR) ON P2.
  - CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. FOR 460V/60HZ/3PH MODELS, SEE INSET 1C.