

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.

FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

AVERTISSEMENT

TENSION DANGEREUSE!

COUPER TOUTES LES TENSIONS ET OUVRIR 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 ENTRAÎNEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DECHARGER LES CONDENSATEURS.

NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES.

ADVERTENCIA

VOLTAJE PELIGROSO!

DESCONECTE TODA LA ENERGIA ELECTRICA, INCLUIDO LAS DESCONEXIONES 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.

EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRIA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

NOTICE

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.

AVIS

N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.

FAIRE DÉFAUT À LA PROCÉDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES À L'ÉQUIPEMENT.

AVISO

UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.

NO SEGUIR LAS INSTRUCCIONES ANTERIORES PUEDE PROVOCAR DAÑOS EN EL EQUIPO.

CN SC5256

23-MAR-08

J. GRIMES

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DRAWN BY: M. PETERS © TRANE DATE:08-12-99

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THIRD ANGLE PROJECTION

2307-8291

SHEET 1 OF 1

REV H

VERTICAL AIR CONDITIONER

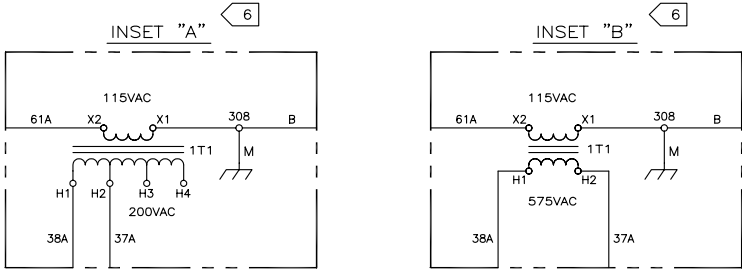
COMMERCIAL SELF-CONTAINED

SCHEMATIC WIRING DIAGRAM

REMOTE MOUNTED THERMOSTAT

200V, 460, 575V/60HZ/3PH

SCWG, SIWG, SCRG, SIRG 20-35 TON



LEGEND	
DEVICE DESIGNATION	DESCRIPTION
1CB1	FAN CIRCUIT BREAKER
1CB2,3	COMPRESSOR CIRCUIT BREAKERS
1DL1,2	TIME DELAY RELAY
1F4,5	TRANSFORMER PRIMARY FUSES
1F6	TRANSFORMER SECONDARY FUSE
1J4	FROST PROTECTION JACK
1K1	FAN CONTACTOR
1K2,3	COMPRESSOR CONTACTORS
1K9	FAN RUN REQUEST RELAY
1K10,11	COMPR. RUN REQUEST RELAY
1K12	ELECTRIC HEAT REQUEST RELAY
1K17,18	RESET RELAY
1P4	FROST PROTECTION PLUG
1S1	NON-FUSED DISCONNECT
1T1	115 V CONTROL TRANSFORMER
1T6	24 V CONTROL TRANSFORMER
1TB1	LINE VOLTAGE TERMINAL BLOCK
1TB16	ELECTRIC HEAT TERMINAL BLOCK
1TB18,19	CUSTOMER CONN. TERMINAL BLOCK
2B2,3	COMPRESSOR MOTORS
3TB11	ELECTRIC HEATER TERMINAL BLOCK
3TB14	ELECTRIC HEATER TERMINAL BLOCK
4B1	FAN MOTOR
4EP	SOLENOID VALVE
FPS	FROST PROTECTION SWITCH
HPC	HIGH PRESSURE CONTROL
LPC	LOW PRESSURE CONTROL
MWT	MOTOR WINDING TEMP
5U31	REMOTE THERMOSTAT
5U32	REMOTE SENSOR

- 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.
 - TO RESET UNIT-WAIT ONE MINUTE AFTER SHUTDOWN THEN MOMENTARILY TURN THERMOSTAT SWITCH TO OFF POSITION.
 - THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
 - MAXIMUM EXTERNAL LOAD ON CONTROL TRANSFORMER NOT TO EXCEED 120V/20VA. SEE INTERCONNECTING WIRING BOOK.
 - CONNECTIONS SHOWN TO TRANSFORMER 1T1 ARE FOR 460 VOLT OPERATION. SEE INSET A FOR 200 VOLT AND INSET B FOR 575 VOLT.
 - MINIMUM THERMOSTAT SWITCH RATING 60VA @ 24VAC, REMOTE 3H/2C OR 2H/2C PROGRAMMABLE T-STAT. REMOTE SENSOR IS OPTIONAL WITH 2H/2C PROGRAMMABLE T-STAT.
 - 4EP1/4EP2 AUX SWITCHES AND ASSOCIATED WIRING IS USED ONLY ON SCRG & SIRG UNITS ONLY. **WARNING** 115 VOLTS SUPPLIED FROM EXTERNAL SOURCE AT 1TB18-6.
 - 1K12 AND ASSOCIATED WIRING IS USED ONLY WITH ELECTRIC HEAT/ELECTRIC HEAT INTERFACE OPTION.
 - WIRING SHOWN IS FOR FIELD INSTALLED ELECTRIC HEAT OPTION ONLY. FOR THE REMAINDER OF ELECTRIC HEATER CIRCUITS, SEE ELECTRICAL SCHEMATIC DIAGRAM LOCATED ON ELECTRIC HEATER CONTROL PANEL.
 - TERMINAL BLOCK 1TB16 AND ASSOCIATED WIRING ARE PRESENT ONLY ON UNITS WITH FACTORY SUPPLIED ELECTRIC HEAT.
 - TERMINAL BLOCK 3TB14 IS PRESENT ONLY ON UNITS WITH FACTORY SUPPLIED ELECTRIC HEAT.
 - FIELD WIRING FOR TERMINAL BLOCK 3TB14 MUST BE RATED FOR 115V CONTROL CIRUIT AND SIZED FOR 14 AWG ONLY.

