Wiring Manual

Packaged Electric/Electric with ReliaTel™ Controls
3 - 10 Tons

Models:
(60 Hz)
TSC036A*R - TSC120A*R
THC036A*R - THC120A*R
Introduction

Literature Change History

T_C-SVE-001A-EN (Nov. 2003)
Updated wiring diagrams.

Overview of Manual

This manual provides wiring diagrams for unit models listed on the front page. Refer to the Table of Contents for proper wiring diagrams.

NOTICE:
Warnings and Cautions appear at appropriate sections throughout this manual. Read these carefully.

⚠️ WARNING – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠️ CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

CAUTION – Indicates a situation that may result in equipment or property-damage-only accidents.
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<th>S</th>
<th>C</th>
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**DIGIT 1 - Unit Function**  
T = DX Cooling

**DIGIT 2 - Efficiency**  
S = Standard Efficiency  
H = High Efficiency

**DIGIT 3 - Airflow**  
C = Convertible

**DIGITS 4,5,6 - Nominal Gross Cooling Capacity (MBh)**  
036 = 3 Ton  
048 = 4 Ton  
060 = 5 Ton  
072 = 6 Ton  
090 = 7½ Ton, Single Compressor  
092 = 7½ Ton, Dual Compressor  
102 = 8½ Ton  
120 = 10 Ton

**DIGIT 7 - Major Design Sequence**  
A = First

**DIGIT 8 - Unit Voltage**  
1 = 208-230/60/1  
3 = 208-230/60/3  
4 = 460/60/3  
W = 575/60/3  
K = 380/60/3

**DIGIT 9 - Unit Controls**  
E = Electromechanical  
R = ReliaTel™Microprocessor

**DIGIT 10 - Heating Capacity**  
0 = No Electric Heat  
A = 5 kW (1 phase)  
B = 6 kW (3 phase)  
C = 9 kW (3 phase)  
D = 10 kW (1 phase)  
E = 12 kW (3 phase)  
F = 14 kW (1 phase)  
G = 18 kW (1 and 3 phase)  
J = 23 kW (3 phase)  
K = 27 kW (3 phase)  
N = 36 kW (3 phase)  
P = 54 kW (3 phase)

**DIGIT 11 - Minor Design Sequence**  
A = First Sequence

**DIGITS 12, 13 - Service Sequence**  
** = Factory Assigned

**DIGIT 14 - Fresh Air Selection**  
0 = No Fresh Air  
A = Manual Outside Air Damper 0-50%  
B = Motorized Outside Air Damper 0-50%  
C = Economizer, Dry Bulb 0-100% without Barometric Relief  
D = Economizer, Dry Bulb 0-100% with Barometric Relief  
E = Economizer, Reference Enthalpy 0-100% without Barometric Relief  
F = Economizer, Reference Enthalpy 0-100% with Barometric Relief  
G = Economizer, Comparative Enthalpy 0-100% without Barometric Relief  
H = Economizer, Comparative Enthalpy 0-100% with Barometric Relief

**DIGIT 15 - Supply Fan/Drive Type/Motor**  
0 = Standard Drive  
1 = Oversized Motor  
2 = Optional Belt Drive Motor

**DIGIT 16 - Hinged Service Access/Filter**  
0 = Standard Panels/Standard Filters  
A = Hinged Access Panels/Standard Filters  
B = Standard Panels/2” Pleated Filters  
C = Hinged Access Panels/2” Pleated Filters

**DIGIT 20 - Convenience Outlet**  
0 = No Convenience Outlet  
A = Unpowered Convenience Outlet  
B = Powered Convenience Outlet (3 phase only)

**DIGIT 21 - Communications Options**  
0 = No Communications Interface  
1 = Trane Communications Interface  
2 = LonTalk® Communications Interface  
3 = Novar 2024 Controls  
4 = Novar 3051 Controls

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0 = Standard Refrigeration System  
A = Thermal Expansion Valve (TXV)  
B = Dehumidification (Hot Gas Reheat Coil)

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1 = High Pressure Control  
2 = Frostat  
3 = Crankcase Heater  
4 = High Pressure Control and Frostat  
5 = High Pressure Control and Crankcase Heater  
6 = Frostat and Crankcase Heater  
7 = High Pressure Control, Frostat and Crankcase Heater

**DIGIT 24 - Smoke Detector**  
0 = No Smoke Detector  
A = Return Air Smoke Detector  
B = Supply Air Smoke Detector  
C = Supply and Return Air Smoke Detectors

**DIGIT 25 - Monitoring Controls**  
0 = No Monitoring Control  
1 = Clogged Filter Switch  
2 = Fan Failure Switch  
3 = Discharge Air Sensing Tube  
4 = Clogged Filter Switch and Fan Fail Switch  
5 = Clogged Filter Switch and Discharge Air Sensing Tube  
6 = Fan Fail Switch and Discharge Air Sensing Tube  
7 = Clogged Filter and Fan Fail Switches and Discharge Air Sensing Tube  
8 = Novar Return Air Sensor
Diagram 1
Power Schematic - 230v/60hz/1ph
2 - 5 Ton Cooling Only
4366-1019
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.

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.

4. Three-phase motors are protected under primary single-phasing conditions. All motors have internal overload protection and compressors have internal thermal protection.

5. Connections shown are for 230V/60Hz/1Ph units. When 208V/60Hz/1Ph operation is required, move wire W9 (blu) from the 230V terminal on TNS to the 208V terminal.

6. Connections shown are for low-speed operation when high-speed operation is required, move wire W7 from FTB-C to FTB-D.

7. Connections shown are for 4 and 5 ton units. For 3-ton units (and below), there are no fan relay (F) jumpers from pin 3 to pin 6 or from pin 1 to pin 4.

8. WARNING

HAZARDOUS VOLTAGE!

DO NOT TRAVEL THROUGHHOLES OR CHANNELS WHICH CARRY HIGH VOLTAGE.

9. CAUTION

USE COPPER CONDUCTORS ONLY.

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

10. IMPORTANT!

DO NOT ENERGIZE UNIT UNTIL CHECKOUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

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Diagram 2
Power Schematic - 230v/60Hz/3ph
2 - 7.5 Ton Cooling Only / Belt Drive Motor
4366-1020
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 options.

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.

4. Three-phase motors are protected under primary single phasing conditions. All motors have internal overload protection and compressors have internal thermal protection.

5. Connections shown are for 230V/60Hz/3Ph, 380V/60Hz/3Ph, 575V/60Hz/3Ph and 380V-415V/50Hz/3Ph units. When 208V/60Hz/3Ph or 460V/60Hz/3Ph operation is required, move wire W4 (BLU) from the 25V/375V terminal, ON TNS, TO THE 208V/660V TERMINAL.

6. Connections shown are for 5-ton and smaller units. For units greater than 5-ton, CTL and wire 4E (RED) are not present, and CCH wires are connected to CCI-L1 and CCI-T1.

7. Connections shown are for 380V-415V/50Hz/3Ph, 380V/60Hz/3Ph, 460V/60Hz/3Ph, and 575V/60Hz/3Ph units. When 208V/60Hz/3Ph or 230V/60Hz/3Ph operation is required, wires 3A (RED), CDM (RED), and pins 4 and 5 on CDP2 are not present.

8. Connections shown are for dehumidification option (2-speed CDM). For 1-speed CDM, wires are 3A (RED), CDM (RED), CDM (BLK) and component CDP2 are not present and wire CDM (BLK) is connected to CCI-L1.

**WARNING:** Hazardous Voltage! Disconnect all electric power before servicing. Failure to disconnect power before servicing can cause severe personal injury or death.

**AVERTISSEMENT:** Voltage hasérdeux! Déconnectez toutes les sources électroniques avant d'entretenir l'installation. Faute de déconnecter la source électrique avant d'entretenir l'installation peut entraîner des blessures corporelles graves ou la mort.

**CAUTION:** Use copper conductors only. Unit terminals are not designed to accept other types of conductors. Failure to do so may cause damage to the equipment.

**IMPORTANT:** Do not energize unit until check-out and start-up procedure has been completed.

---

COLOR  ABBR  COLOR  ABBR
BLACK  BLK  ORANGE  ORG
BLUE   BLU   RED   RED
BROWN  BRN   VEIL   VIO
GRAY   GRA   WHITE  WHIT
GREEN/YELLOW  G/Y  YELLOW  YEL

---

- W4 (BLU)
- 24V
- 230V/275V/460V
- 1A (RED)
- CDM
- 5T

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4366-1020H
Diagram 3
Power Schematic - 230v/60hz/3ph
7.5 - 10 Ton Cooling Only / Dual Compressor
4366-1037
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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.

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.

4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

5. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH, 380V/60HZ/3PH, 575V/60HZ/3PH, AND 380V-415V/50HZ/3PH UNITS. WHEN 208V/60HZ/2PH OR 460V/60HZ/2PH OPERATION IS REQUIRED, MOVE WIRE W4BLU FROM THE 230V/575V TERMINAL IN TNSI TO THE 220V/460V TERMINAL.

---

**IMPORTANT!**
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

---

**WARNING**
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.

**AVERTISSEMENT**
VOLTAG HÉSARDEUX!
DECONNECTEZ TOUTES LES SOURCES ÉLECTRIQUES INCLANT LES DISJONCTEURS ÉLECTRIQUES AVANT D'EFFETUER L'ENTRETIEN.

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

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

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4366-1037C
Diagram 4
Power Schematic - 230v/60hz/3ph
2 - 5 Ton Cooling Only / Direct Drive Motor
4366-1022
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 CIRCUITY OR AVAILABLE SALES OPTIONS.

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.

4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

5. CONNECTIONS SHOWN ARE FOR 230V/60Hz/3Ph UNITS. WHEN 208V/60Hz/3Ph OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.

6. CONNECTIONS SHOWN ARE FOR LOW SPEED OPERATION. WHEN HIGH SPEED OPERATION IS REQUIRED, MOVE WIRE W4 FROM FTB-C TO FTB-D.

7. CONNECTIONS SHOWN ARE FOR 4 AND 5 TON UNITS. FOR 3 TON UNITS (AND BELOW), THERE ARE NO FAN RELAY JUMPS FROM PIN 3 TO PIN 6 OR FROM PIN 1 TO PIN 4.

**IMPORTANT!**
DO NOT ENERGIZE UNIT UNTIL CHECKOUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

**WARNING**
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.

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

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

FAUTE DE DECONNECTEZ LA SOURCE ELECTRIQUE AVANT DÉMONTAGE L'ENTRETIEN PEUT ENTRAINER DES BLESSURES CORPORELLES SEVERES OU LA MORT.

**AVERTISSEMENT**
VOLTAGE HAZARDEUX!
DECONNECTEZ TOUTES LES SOURCES AVANT DÉMONTAGE L'ENTRETIEN NEED NOT BE CONNECTED.

436-10220
Diagram 5
Power Schematic - 460-575v/60hz/3ph
2 - 7.5 Ton Cooling Only / Belt Drive Motor
4366-1023
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.

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.

4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS; ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

5. CONNECTIONS SHOWN ARE FOR 460V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLUE) FROM THE 460V TERMINAL ON TNS1 TO THE 575V TERMINAL.

6. CONNECTIONS SHOWN ARE FOR 5-TON AND SMALLER UNITS. FOR UNITS GREATER THAN 5-TON, Ctl AND WIRE 4E (RED) ARE NOT PRESENT, AND CON WIRE ARE CONNECTED TO Ctl-L1 AND Ctl-T1.

7. CONNECTIONS SHOWN ARE FOR 5-TON AND SMALLER UNITS. FOR UNITS GREATER THAN 5-TON, WIRES 3B, 16A, 21B, AND 17A ARE CONNECTED DIRECTLY TO TD1.

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<table>
<thead>
<tr>
<th>REF</th>
<th>DESCRIPTION</th>
<th>LINE</th>
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<tr>
<td>CCL</td>
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<tr>
<td>CTH</td>
<td>CRANKCASE HEATER</td>
<td>27</td>
</tr>
<tr>
<td>CFI</td>
<td>CC MOTOR CAPACITOR</td>
<td>30</td>
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<tr>
<td>CPM</td>
<td>COMPRESSOR</td>
<td>23</td>
</tr>
<tr>
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<td>COIL TEMP LIMIT SWITCH</td>
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<tr>
<td>F</td>
<td>FAN CONTROLLER</td>
<td>10,12</td>
</tr>
<tr>
<td>FTB</td>
<td>ID FAN TERMINAL BLOCK</td>
<td>8,10,12</td>
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<tr>
<td>IDM</td>
<td>ID FAN MOTOR</td>
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<tr>
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<td>DD FAN MOTOR</td>
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</tr>
<tr>
<td>TNS1</td>
<td>LOW VOLTAGE TRANSFORMER</td>
<td>35</td>
</tr>
</tbody>
</table>

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**IMPORTANT!**
DO NOT ENERGIZE UNIT UNTIL CHECK-OUT AND START-UP PROCEDURE HAS BEEN COMPLETED.

---

**WARNING**
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER, INCLUDING REMOTE DISCONNECTS, BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

**AVERTISSEMENT**
VOLTAGE HASARDEUX! DÉSÉLECTRIFICATEZ TOUS LES FONCTIONS ÉLECTRIQUES INCLUS LES DÉSÉLECTRIFICATEURS À DISTANCE AVANT D'EFFETuer L'ENTRETIEN.
FAUTE DE DÉSÉLECTRIFICATEZ LA SOURCE ÉLECTRIQUE AVANT D'EFFETuer L'ENTRETIEN PEUT ENTRAÎNER DES BLESSURES CORPS SEVERES OU LA MORT.

**CAUTION**
USE COPPER CONDUCTORS ONLY. UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.
1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 29°C (82°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.

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.

4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE
   INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

> CONNECTIONS SHOWN ARE FOR 480V/60HZ/3PH UNITS. WHEN 575V/60HZ/3PH OPERATION IS REQUIRED, MOVE
   WIRE W4 (BLU) FROM THE 480V TERMINAL ON TNSI TO THE 575V TERMINAL.

**IMPORTANT!**

DO NOT ENERGIZE UNIT
UNTIL CHECK-OUT AND
START-UP PROCEDURE HAS
BEEN COMPLETED.

⚠️ WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER,
INCLUDING REMOTE DISCONNECTS,
BEFORE SERVICING.

Failure to disconnect power
before servicing may cause
severe personal injury or
death.

⚠️ AVERTISSEMENT
VOLTAGE HASARDEUX!
DECONNECTEZ TOUTES LES SOURCES
ELECTRIQUES INCLUS LES DISJUNCTEURS
SITUÉS À DISTANCE AVANT D'EFFETUER
L'ENTRETIEN.

Failure to disconnect power
before servicing may cause
severe personal injury or
death.

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

Failure to do so may cause
damage to the equipment.
1. Unless otherwise noted, all switches are shown at 55°C (131°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.

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.

4. Three-phase motors are protected under primary single phasing conditions. All motors have internal overload protection and compressors have internal thermal protection.

5. Connections shown are for 380V/60Hz/3Ph and 480V/60Hz/3Ph units. When 575V/60Hz/3Ph operation is required, move wire W4 (G/LU) from the 480V terminal to the 575V terminals.

6. Connections shown are for low-speed operation. When high-speed operation is required, move orange wire from FTB-4 to FTB-6 and move yellow wire from FTB-6 to FTB-4.

7. Connections shown are for 4, 5, 6, and 10 Ton units. For 3 Ton units (and below) there are no relay G7 jumpers from Pin 3 to Pin 6 or from Pin 1 to Pin 4.

**WARNING**

HAZARDOUS VOLTAGE!

Disconnect all electric power, including remote disconnects, before servicing. Failure to disconnect power before servicing can cause severe personal injury or death.

**AVERTISSEMENT**

VOLTAGE HASARDEUX!

Déconnectez toutes les sources électriques incluant les disjoncteurs à distance avant d'intervenir sur l'entretien.

**CAUTION**

USE COPPER CONDUCTORS ONLY!

Unit terminals are not designed to accept other types of conductors. Failure to do so may cause damage to the equipment.

<table>
<thead>
<tr>
<th>REF</th>
<th>DESCRIPTION</th>
<th>LINE</th>
</tr>
</thead>
<tbody>
<tr>
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<td>FTL</td>
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<tr>
<td>F1</td>
<td>FAN RELAY</td>
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<td>FTB</td>
<td>FAN TERMINAL BLOCK</td>
<td>6, 8, 10, 12</td>
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<tr>
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<td>ID FAN MOTOR</td>
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<td>IMD</td>
<td>OD FAN MOTOR</td>
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</tr>
<tr>
<td>TNS1</td>
<td>LOW VOLTAGE TRANSFORMER</td>
<td>45</td>
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</tbody>
</table>

**IMPORTANT!**

Do not energize unit until check-out and start-up procedure has been completed.
Diagram 8
Connection Diagram - 230v/60hz/1ph
2 - 5 Ton Cooling Only
4366-1506

1. All wiring and devices shown dashed to be supplied and installed by the customer in accordance with local and national electrical codes. Phantom line enclosures indicate alternate circuitry or available sales options.

2. If any of the original wire, as supplied with this unit, must be replaced, replace with appliance wiring material rated at 105°C.

3. Three phase motors are protected under primary single phasing conditions. All motors have internal overload protection. Compressors have internal thermal protection.

4. Connections shown are for 230V/60Hz/1ph units. When 208V/60Hz/1ph operation is required, move wire W29 to L6 from the 230V terminal on TNSI to the 208V terminal.

5. All units ship with an options harness routed from the control panel to the ID fan and economizer sections. If no options are installed, do not connect the harness to RTDM if cond is installed. Connect as shown. If options are installed without cond, connect SP4 to 3,4 on RTDM.

6. Connections shown include optional HPC. If HPC is not installed, connect W23(YEL) to 122A(YEL).

7. Connections shown include optional RTDM. If RTDM is not installed, connect SP1 and SP2 through gender changer harness 4366-1172-B.

8. Optional MAS, RAS, RSH, DHS, and associated wiring not used with motorized outside air damper.
Diagram 9
Connection Diagram - 230-460-575v/60hz/3ph
2 - 5 Ton Cooling Only / Direct Drive Motor
4366-1508

1. ALL WIRING AND DEVICES SHOWN DASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN
ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE
ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.

2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH
APPLIANCE WIRING MATERIAL RATED AT 105°C.

3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE
INTERNAL OVERLOAD PROTECTION COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

4. CONNECTIONS SHOWN ARE FOR 230V/460V/3PH, 380V/690V/3PH OR 575V/690V/3PH UNITS. WHEN
230V/460V/3PH OR 460V/690V/3PH OPERATION IS REQUIRED, MOVE WIRE W40BLU FROM THE
230V/460V/3PH TERMINAL ON TT3 TO THE 230V/460V TERMINAL.

5. ALL UNITS SHIP WITH AN OPTIONS HARNESS ROUTED FROM THE CONTROL PANEL TO THE FD FAN AND
ECONOMIZER SECTIONS. IF NO OPTIONS ARE INSTALLED, DO NOT CONNECT THE HARNESS TO RTDM. IF
COMM IS INSTALLED, CONNECT AS SHOWN. IF OPTIONS ARE INSTALLED WITHOUT COMM, CONNECT 3P4
TO SJ4 ON RTDM.

6. CONNECTIONS SHOW INCLUDE OPTIONAL HPC. IF HPC IS NOT INSTALLED, CONNECT W23YEL TO 122AYEL.

7. CONNECTIONS SHOW INCLUDE OPTIONAL RTDM. IF RTDM IS NOT INSTALLED, CONNECT 5P1 AND 5P2 THROUGH
GENERATOR HARNESS 4366-1172-01.

8. OPTICAL, MAS, RAS, RH, OHS, AND ASSOCIATED WIRING NOT USED WITH MOTORIZED OUTSIDE AIR DAMPER.
Diagram 10
Connection Diagram - 208-230,460,575V/60Hz/3Ph
2 - 5 Ton Cooling Only / Belt Drive Motor
4366-1509

1. All wiring and devices shown dashed to be supplied and installed by the customer in accordance with local and national electrical codes. Phantom line enclosures indicate alternate circuitry or available sales options.

2. If any of the original wire, as supplied with this unit, must be replaced, replace with appliance wiring material rated at 75°C.

3. Three phase motors are protected under primary single phasing conditions. All motors have internal overload protection. Compressors have internal thermal protection.

4. Connections shown are for 230/460/3Ph, 380/690/3Ph, 575V/690/3Ph, and 208/415V/2/3Ph units. Wire size is #6 for 208/230/3Ph or 230V/415V/2/3Ph operation is required. Move wire W1/BLU from the 230V/415V/3Ph terminal to the 230V/415V/3Ph terminal on RTDM.

5. All units ship with an options harness routed from the control panel to the ID Fan and Economizer sections. If no options are installed, Do not connect the harness to RTDM. If Comm is installed, connect as shown. If options are installed without Comm, connect 2Pin to 2Pin on RTDM.

6. Connections shown include optional HPCE. If HPCE is not installed, connect W1/BLU to 1HPA.

7. Connections shown include optional RTDM. If not installed, connect 2Pin and 4Pin through gender changer harness 4366-1172-01.

8. Optional MAS, W4, RHE, CMS, and associated wiring not used with motorized outside air damper.

9. Component's SP3, SP4, SP5, SP6, N1/2/3/4, RHE, CMS, and associated wiring are present only with dehumidification option.

10. See end of diagram for additional wiring.

11. Connection shown are for dehumidification option (of SP3/SP4). For 1-speed ECM, wires ECM-HEAT, ECM-VAC, ECM-VAC, ECM-HEAT, and ECM-HEAT are not present, and wire ECM-BLK is connected to coil terminal L1.


13. Cut and isolate wires if dehumidification option is installed.
Diagram 11
Connection Diagram - 208-230,460,575v/60hz/3ph
6 - 7.5 Ton Cooling Only / Belt Drive Motor
4366-1541

1. All wiring and devices shown dashed to be supplied and installed by the customer in accordance with local and national electrical codes. Phantom line enclosures indicate alternate circuitry or available sales options.

2. If any of the original wire, as supplied with this unit, must be replaced, replace with appliance wiring material rated at 105°C.

3. Three phase motors are protected under primary single phasing conditions. All motors have internal overload protection. Compressors have internal thermal protection.

4. Connections shown are for 230V/460V/3PH, 380V/575V/3PH, 575V/620/3PH and 380V/415V/50Hz/3PH units. When 208V/60Hz/3PH or 460V/50Hz/3PH operation is required, move wire W4(BLUD) from the 230V/460V/575V terminal on T3 to the 208V/460V terminal.

5. All units ship with an optional harness routed from the control panel to the ID fan and economizer sections. If no options are installed, do not connect the harness to EFM. If options are installed, connect as shown. If options are installed without control, connect 3P4 to 3JA on RTDM.

6. Connections shown include optional RTDM. If not installed, connect 3P4 and 3P6 through gender changer harness 4366-117E-21.

7. Optional MAS, RAS, RHS, DFS, and associated wiring not used with motorized outside air damper.

---

[Diagram of connection diagram with labels and connections marked, including MAS, BLK, W4(BLUD), 146A(VIVD), 143A(RED), 137A(LBU), 139A(VIVD), 143B(RED), SAD, SAB, SBD, SFD, SFS, SGB, and IDM connections detailed.]
Diagram 12
Connection Diagram - 208-230,460,575v/60hz/3ph
7.5 - 10 Ton Cooling Only / Dual Compressor
4366-1534

1. All wiring and devices shown dashed to be supplied and installed by the customer in accordance with local and National Electrical Codes. Phantom line enclosures indicate alternate circuitry or available sales options.

2. If any of the original wire, as supplied with this unit, must be replaced, replace with appliance wiring material rated at 105°C.

3. Three phase motors are protected under primary single passing conditions. All motors have internal overload protection. Transformers have internal thermal protection.

4. Connections shown for 208/230/240v/3ph, 460v/3ph, 575v/3ph or 415v/50hz/3ph units when 208/230/240v/3ph in 460v/50hz/3ph operation is required, move wire W305K2N from the 208/230/240v terminal to the 208/230v terminal.

5. Cond conductors are identified by brown tape placed near wire terminations inside control panel.

6. All units ship with an options harness routed from the control panel to the ID fan and economizer sections. If no options are installed, do not connect the harness to the ID fan. If CCM is installed, connect as shown if options are installed without CCM, connect SPM to 3PH on RTM.

7. Connections shown include optional RTRM. If not installed, connect SPM and SPM2 through gender change harness 4366-1167-01.

8. Optional MAS, RAS, RHS, DLS, and associated wiring not used with motorized outside air damper.

9. Components SPM, SPM2, SPM3, NLTB, LT8 7-14, RHV, RTM and associated wiring are present only with dehumidification option.

10. See OB & VENT OVERRIDE ACCESSORY DIAGRAM 4366-1003 FOR ADDITIONAL WIRING.
1. All units ship with an options harness routed from the control box (SC4) to the indoor fan section (SC5, SC6) and the return air section (SC7). Do not connect the options harness to the unit if no options are installed. Refer to accompanying literature for proper connection/combinations of optional components.

2. To disable compressors, remove LTJ jumpers between pins 1 and 2 and pins 3 and 4, and connect field supplied control device.

3. To shut down unit for emergency stop, remove LTJ jumper between pins 5 and 6, and install field supplied control device or install optional LTST.

4. Install optional remote sensor to terminals S1 and S2 when required. See programmable zone sensor/remote panel workbook literature for correct settings.

5. Connections shown include optional HPC. If HPC is not installed, connect PPM5 to PPM4.

6. Remove jumper to enable supply air tempering.

7. Required for optional reference enthalpy control.

8. Required for optional comparative enthalpy control.

9. Optional MAS, HAS, HSH, and associated wiring not used with motorized outside air damper.

10. PPM4, 149A, HAS, and associated wiring are not present if demodification option is not installed.

11. Cut and isolate wire 149A/VID if demodification option is installed.
Diagram 15
Novar Schematic - 2024

1. This unit is factory-installed Novar controls. Consult the manual for further details.
2. Place wiring labels on inside of Novar enclosure.
3. CLS-2 and accessory wires are supplied but not used on single refrigeration circuits. COD and RNR-2 liquid lines are cold only on dual circuit units.
4. Compressor group has an automatic reset after a call for energy and optional 3 fans will run for full open.
5. Compressor group is factory wired for full closed during unoccupied periods. Place jumper between F and M to disable this function.
6. Replace power transformer with a new transformer for gas heat operation.
7. Do not open unit for emergency purpose. Jumper and wire dresser is already attached between the terminals of the electric relay on the electric heat relay.
8. Connect wire from the heat section of the unit at the gas valve or the electric heat relay.
9. To use Novar states menu as desired, remove the jumper from NTB-19 & NTB-10 and install between NTB-2 and NTB-1.

4366-1099B
Diagram 18
CO₂ Sensor / Ventilation Override Schematic

Alternate RTOM Connection

```
RTOM 5J6
  1  EXHAUST  195A (BLK)
  2  PURGE  194A (BLK)
  3  PRESSURIZE  191A (BLK)

Screw Terminal
```

Note:
Some RTOM versions have a 5J6 connector which only accepts bare wire. In this case remove plug 5P6 from harness, strip the wire ends and connect individual wires 191A, 194A, and 195A to the screw terminals of 5J6 as shown above.

VENTILATION OVERRIDE WIRING

```
W42 (RED)  WNI 1R (RED)  LT 1
W43 (BLU)  WNI 2K (BLU)  LE 2

NOTE:
1. DASHED LINES REPRESENT RECOMMENDED FIELD WIRING
2. APPLIES TO DUCT MOUNTED SENSOR ONLY.
```
NOTES:
1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT OFF.CLOSED CIRCUITS ARE SHOWN OPEN AT TIMES.
2. DIODE LIMITERS ARE SHOWN FOR PROTECTION OF INDUCTIVE LOADS WHERE A CIRCUIT BREAKER IS NOT PROVIDED.
3. SCHEMATIC REPRESENTATION OF PANELS, ENCLOSURES, AND OTHER APPLIANCES IS FUNCTIONAL AND ACCURATE.

CAUTION
USE COPPER CONNECTORS ONLY.
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONNECTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

CAUTION
DO NOT ACCESS UNIT UNTIL DECOMMISSIONED AND START-UP PROCEDURE HAS BEEN COMPLETED.

WARNING
HAZARDOUS VOLTAGE EXIST IN THE UNIT.
UNAUTHORIZED ACCESS MAY RESULT IN SERIOUS INJURY OR DEATH.

AVERTISSEMENT
TENSION DANGEREUSE EXISTE DANS L'UNITÉ.
ACCÈS NON AUTORISÉ PEUT RÉSULTER EN LÉSIONS SERIEUSES OU LA MORT.

IMPORTANT!
DO NOT ACCESS UNIT UNTIL DECOMMISSIONED AND START-UP PROCEDURE HAS BEEN COMPLETED.

Diagram 23

6.0 KW - 208-600v/60hz/3ph
BAYHTRR306A, BAYHTRR406A, BAYHTRRW06A

Diagram 23

6.0 KW - 208-600v/60hz/3ph
BAYHTRR306A, BAYHTRR406A, BAYHTRRW06A
Diagram 25
12.0 & 17.4 KW - 208-240v/60hz/3ph
BAYHTRR312A, BAYHTRR318A
Diagram 27
27.0 & 36.0 KW - 208-240v/60hz/3ph
BAYHTRS327A, BAYHRT327A,
BAYHTRS336A, BAYHRT336A
Diagram 29
9.0 & 18 KW - 480-600v/60hz/3ph
BAYHTRS409A, BAYHTRT409A,
BAYHTRSW09A, BAYHTRS418A,
BAYHTRT418A, BAYHTRSW18A,
BAYHTRTW18A
Diagram 30

12.0, 17.4 & 23.0 KW - 480-600v/60hz/3ph

BAYHTRR412A, BAYHTRR418A, BAYHTRR423A

BAYHTRRW12A, BAYHTRRW18A, BAYHTRRW23A

NOTES:
1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT DOT C (OFF) AT NO AUXILIARY PRESSURE, AT 998 RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. SHADOWED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSES AND/OR SHADOWED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. DASHED LINE ENCLOSES INDICATES ALTERNATE CIRCUITRY OR AVAILABLE SIZING OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHHEMATIC DESIGNATE THE LOCATION OF COMPONENTS IN LINE NUMBERS. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. FOR SINGLE-POLE FUSE, WIRE SPECIFIED, WIRE W/1000V, AND WIRE R/W/1500V. FOR 2-POLE WIRING, UNIQUE WIRING FOR 2-PHASE CUSTOMER-PROVIDED TERMINALS L1, L2, AND L3.
5. CONNECTIONS SHOWN ARE FOR RELAYS. SQUARES FOR ELECTRICAL CONTACTS ARE SHOWN IN BRACKETS.
6. WIRE MARKED REPLACES WIRE MARKED IN ID ON HEAT PUMP UNIT.
Diagram 31
27.0 & 36.0 KW - 480-600v/60hz/3ph
BAYHTRS427A, BAYHTRTS427A, BAYHTRSW27A,
BAYHTRTW27A, BAYHTRS436A, BAYHTRTS436A,
BAYHTRSW36A, BAYHTRTW36A
The manufacturer has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.