

|                                                                                   |                                                       |                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|---------------------|
|  | <b>AIR-COOLED LIQUID CHILLERS<br/>HERMETIC SCROLL</b> |                     |
| <b>RENEWAL PARTS</b>                                                              | New Release                                           | Form QCC2-RP1 (417) |

**QCC2015CEE – QCC2070CEE**  
**AIR-COOLED SCROLL COMPRESSOR CONDENSING UNITS**  
**STYLE E (60 HZ)**  
**15 - 80 TON**  
**50-280KW**



**R-410A**



Products are produced at a facility whose quality-management systems are ISO9001 certified.

Issue Date:  
April 28, 2017



# IMPORTANT!

## READ BEFORE PROCEEDING!

### GENERAL SAFETY GUIDELINES

This equipment is a relatively complicated apparatus. During rigging, installation, operation, maintenance, or service, individuals may be exposed to certain components or conditions including, but not limited to: heavy objects, refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is the obligation and responsibility of rigging, installation, and operating/service personnel to identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks. Failure to comply with any of these requirements could result in serious damage to the equipment and the property in

which it is situated, as well as severe personal injury or death to themselves and people at the site.

This document is intended for use by owner-authorized rigging, installation, and operating/service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks properly and safely. It is essential that, prior to performing any task on this equipment, this individual shall have read and understood the on-product labels, this document and any referenced materials. This individual shall also be familiar with and comply with all applicable industry and governmental standards and regulations pertaining to the task in question.

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### SAFETY SYMBOLS

The following symbols are used in this document to alert the reader to specific situations:



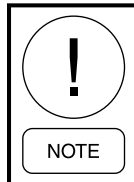
*Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.*



*Identifies a hazard which could lead to damage to the machine, damage to other equipment and/or environmental pollution if proper care is not taken or instructions are not followed.*



*Indicates a potentially hazardous situation which will result in possible injuries or damage to equipment if proper care is not taken.*



*Highlights additional information useful to the technician in completing the work being performed properly.*



*External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Quantech published specifications and must be performed only by a qualified electrician. Quantech will NOT be responsible for damage/problems resulting from improper connections to the controls or application of improper control signals. Failure to follow this warning will void the manufacturer's warranty and cause serious damage to property or personal injury.*

## CHANGEABILITY OF THIS DOCUMENT

In complying with Quantech policy for continuous product improvement, the information contained in this document is subject to change without notice. Quantech makes no commitment to update or provide current information automatically to the manual or product owner. Updated manuals, if applicable, can be obtained by contacting your Quantech Sales Representative.

It is the responsibility of rigging, lifting, and operating/service personnel to verify the applicability of these documents to the equipment. If there is any question regarding the applicability of these documents, rig-

ging, lifting, and operating/service personnel should verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the chiller.

### CHANGE BARS

Revisions made to this document are indicated with a line along the left or right hand column in the area the revision was made. These revisions are to technical information and any other changes in spelling, grammar or formatting are not included.

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## HOW TO USE RENEWAL PARTS MANUALS

Quantech offers an assortment of replacements parts for Quantech units. Each replacement part is manufactured and fitted for a specific model. This Replacement Parts Manual is for standard Quantech units. Chiller units built with special options, modifications, or conversions are not covered in this manual.

This Replacement Parts Manual provides Quantech chiller replacement parts by part numbers, descriptions, quantities and drawing figures. To determine the correct replacement part, locate the item on drawing figure and refer to the parts list for the part number, description and quantity.

**NOTE:** Provide a unit model number, unit serial number and part number when requesting a quotation or placing an order. Failure to include this information may delay processing of your request.

Model and Serial Number Locations:

- **Unit** - Namplate on side of Control Panel
- **Compressor** - Namplate on Compressor Housing
- **VSD** - Namplate on VSD Panel

Contact the following sources to order parts.

### NORTH AMERICA

#### **Baltimore Parts Center**

#### **Contrators within USA**

Telephone: (800)-932-1701

#### **Equipment Owners within USA who maintain their own equipment**

Telephone: (800)-482-2778

Email: [cg-baltimore-parts-customer@jci.com](mailto:cg-baltimore-parts-customer@jci.com)

For parts availability and ordering Quantech HVAC Parts within the USA please use the following link:  
[http://www.johnsoncontrols.com/content/us/en/products/building\\_efficiency/products-and-systems/integrated\\_hvac\\_systems/parts\\_center/baltimorepartscenter.html](http://www.johnsoncontrols.com/content/us/en/products/building_efficiency/products-and-systems/integrated_hvac_systems/parts_center/baltimorepartscenter.html)

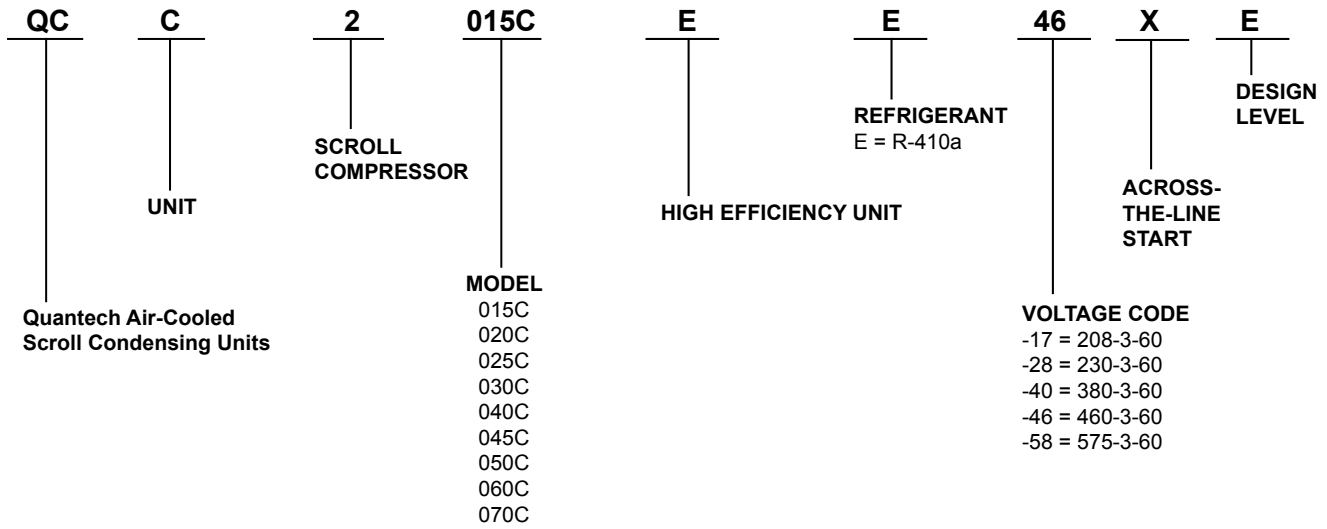
### EUROPE

#### **HVAC Parts Centre (Europe)**

Telephone: +44 (0) 1268 246 400

Email: [ALLParts@jci.com](mailto:ALLParts@jci.com)

## NOMENCLATURE



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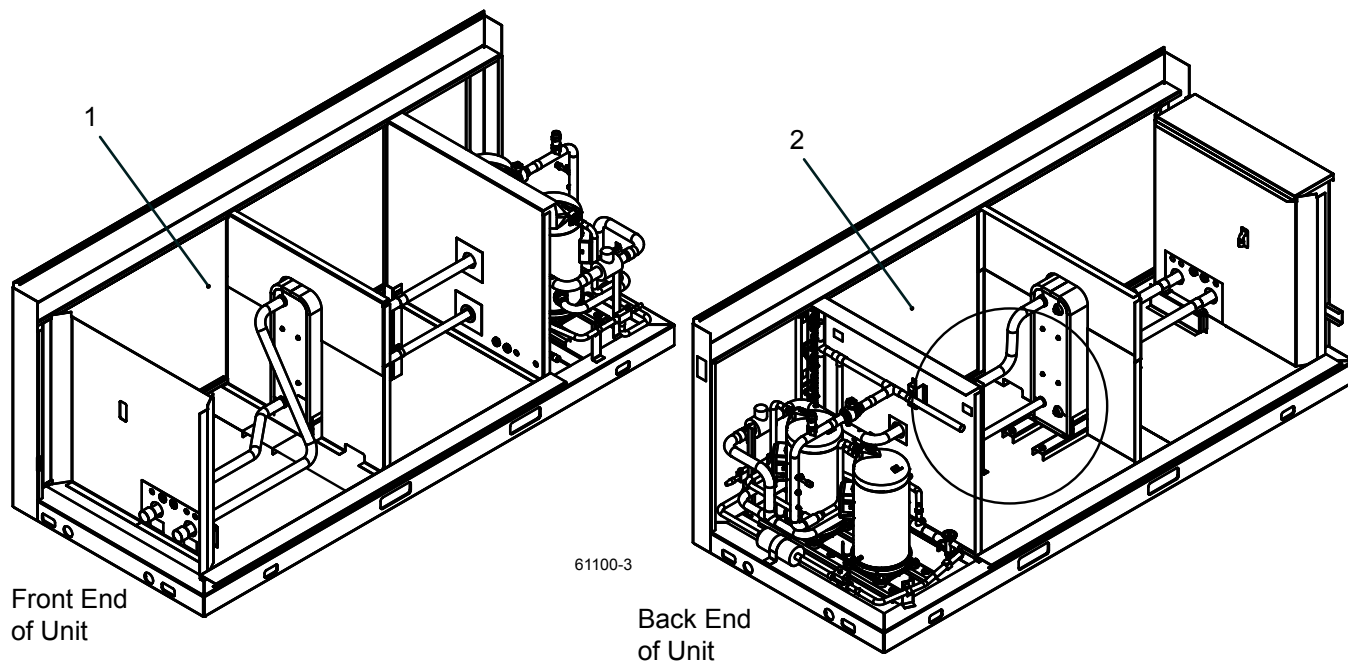
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## SECTION 1 - CONDENSER COIL COMPONENTS

1



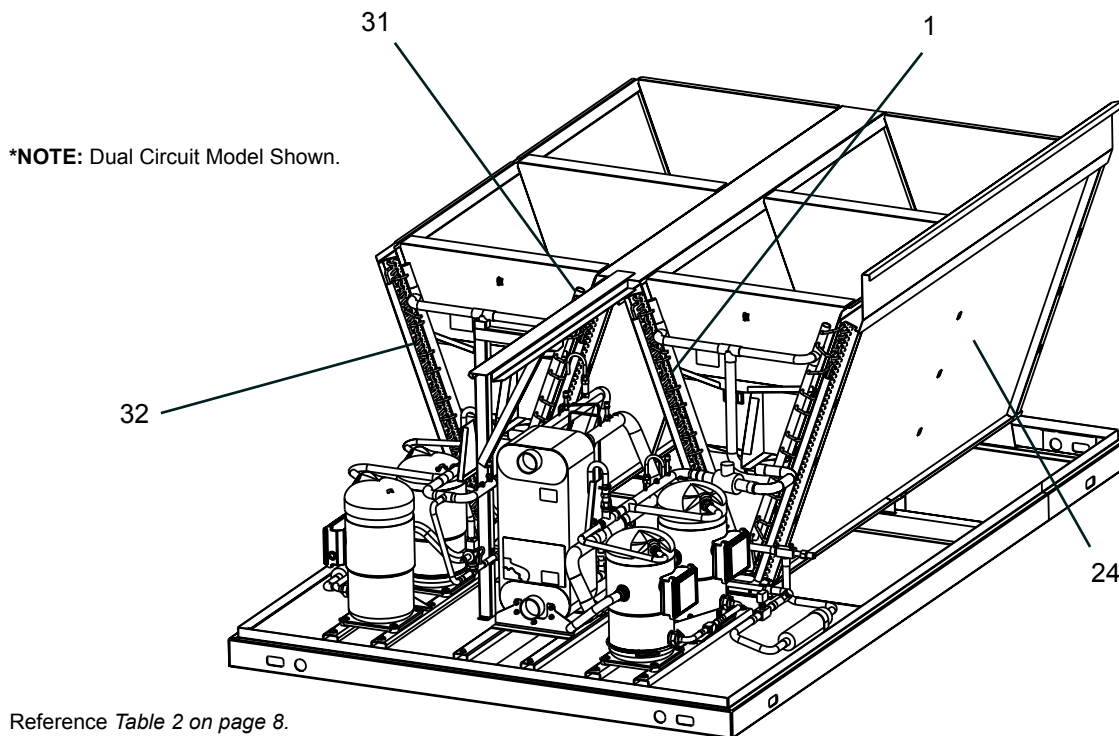
Reference Table 1 on page 7.

**FIGURE 1 - CONDENSER COIL LAYOUT**

**TABLE 1 - CONDENSER COIL COMPONENTS**

| ITEM               | DESCRIPTION  | QCC2015C      | QCC2020C      | QCC2025C AND<br>QCC2030C | QUANTITY |
|--------------------|--------------|---------------|---------------|--------------------------|----------|
| ALUMINUM FIN COILS |              |               |               |                          |          |
| 1                  | Coil Module* | 375-58294-103 | 375-58294-203 | 375-58294-303            | 1        |
| 2                  |              | 375-58294-104 | 375-58294-204 | 375-58294-304            | 1        |
| COPPER COILS       |              |               |               |                          |          |
| 1                  | Coil Module* | 375-58294-113 | 375-58294-213 | 375-58294-313            | 1        |
| 2                  |              | 375-58294-114 | 375-58294-214 | 375-58294-314            | 1        |
| BLACK FIN COILS    |              |               |               |                          |          |
| 1                  | Coil Module* | 375-58294-123 | 375-58294-223 | 375-58294-323            | 1        |
| 2                  |              | 375-58294-124 | 375-58294-224 | 375-58294-324            | 1        |
| PHENOLIC COILS     |              |               |               |                          |          |
| 1                  | Coil Module* | 375-58294-133 | 375-58294-233 | 375-58294-333            | 1        |
| 2                  |              | 375-58294-134 | 375-58294-234 | 375-58294-334            | 1        |

\*NOTE: Coil Module includes coil and headers. See Figure 1 on page 7.



Reference Table 2 on page 8.

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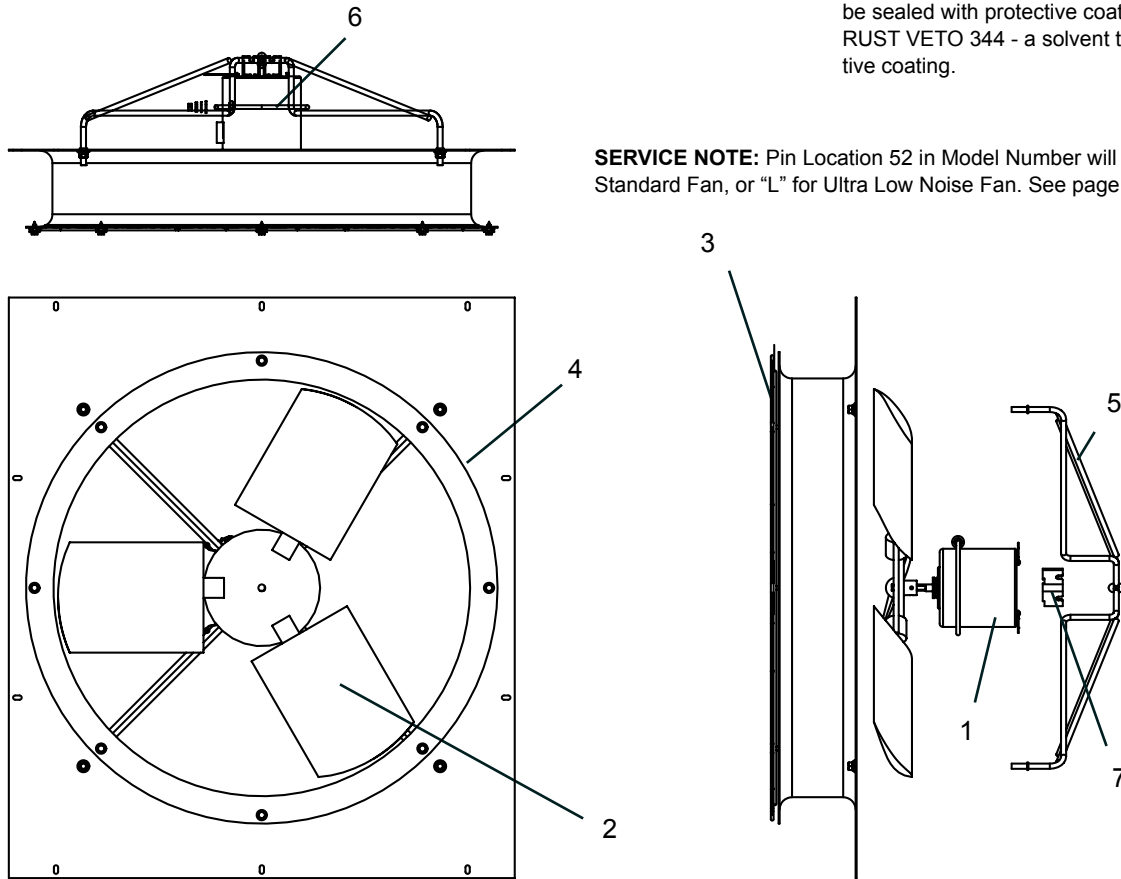
**FIGURE 2 - CONDENSER COIL LAYOUT****TABLE 2 - CONDENSER COIL COMPONENTS**

| ITEM               | DESCRIPTION  | QCC2040C AND<br>QCC2045C | QCC2050C AND<br>QCC2060C | QCC2070C      | QUANTITY |
|--------------------|--------------|--------------------------|--------------------------|---------------|----------|
| ALUMINUM FIN COILS |              |                          |                          |               |          |
| 1                  | Coil Module* | 375-58294-202            | 375-58294-401            | 375-58294-501 | 1        |
| 24                 |              | 375-58294-201            | 375-58294-402            | 375-58294-502 | 1        |
| 31                 |              | 375-58294-205            | 375-58294-404            | 375-58294-506 | 1        |
| 32                 |              | 375-58294-206            | 375-58294-403            | 375-58294-505 | 1        |
| COPPER COILS       |              |                          |                          |               |          |
| 1                  | Coil Module* | 375-58294-212            | 375-58294-411            | 375-58294-511 | 1        |
| 24                 |              | 375-58294-211            | 375-58294-412            | 375-58294-512 | 1        |
| 31                 |              | 375-58294-215            | 375-58294-414            | 375-58294-516 | 1        |
| 32                 |              | 375-58294-216            | 375-58294-413            | 375-58294-515 | 1        |
| BLACK FIN COILS    |              |                          |                          |               |          |
| 1                  | Coil Module* | 375-58294-222            | 375-58294-421            | 375-58294-521 | 1        |
| 24                 |              | 375-58294-221            | 375-58294-422            | 375-58294-522 | 1        |
| 31                 |              | 375-58294-225            | 375-58294-424            | 375-58294-526 | 1        |
| 32                 |              | 375-58294-226            | 375-58294-423            | 375-58294-525 | 1        |
| PHENOLIC COILS     |              |                          |                          |               |          |
| 1                  | Coil Module* | 375-58294-232            | 375-58294-431            | 375-58294-531 | 1        |
| 24                 |              | 375-58294-231            | 375-58294-432            | 375-58294-532 | 1        |
| 31                 |              | 375-58294-235            | 375-58294-434            | 375-58294-536 | 1        |
| 32                 |              | 375-58294-236            | 375-58294-433            | 375-58294-535 | 1        |

\*NOTE: Coil Module includes (2) coils and all headers. See Figure 2 on page 8.



## SECTION 2 - FAN COMPONENTS



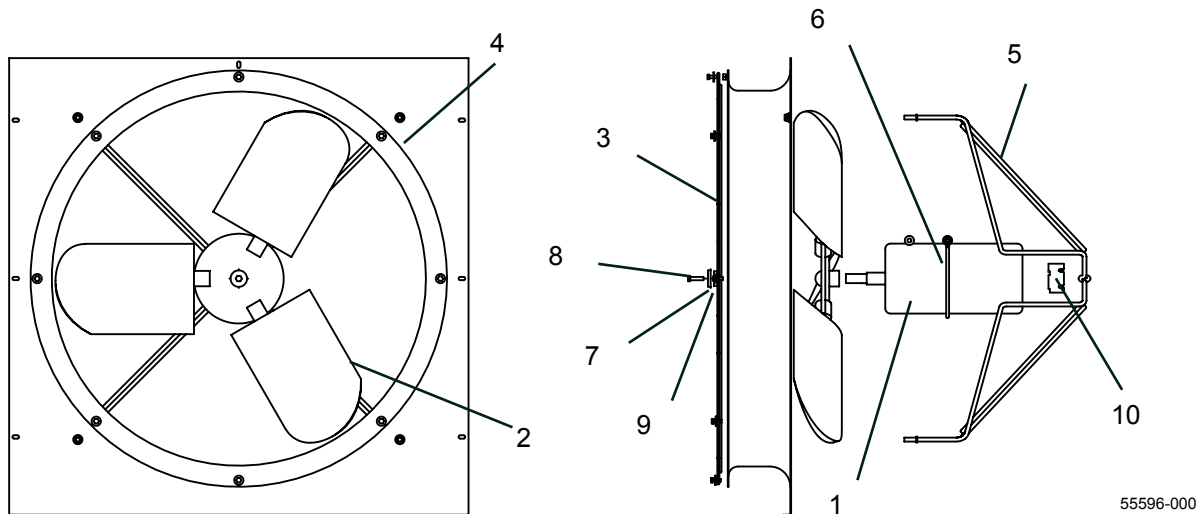
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**FIGURE 3 - FAN COMPONENTS - MODELS QCC2015C AND QCC2020C**

**TABLE 3 - FAN COMPONENTS - MODELS QCC2015C AND QCC2020C**

| ITEM           | DESCRIPTION                               | VOLTAGE CODE                           | FAN TYPE                                                                                           |                                  |
|----------------|-------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------|
|                |                                           |                                        | STANDARD<br>7/8", 1075 RPM                                                                         | ULTRA LOW NOISE<br>7/8", 850 RPM |
| 1 <sup>s</sup> | Motor, Fan .5 HP<br>(QCC2015C & QCC2020C) | -17<br>-28<br>-40<br>-46<br>-50<br>-58 | 024-35427-002<br>024-35427-002<br>024-35427-004<br>024-35427-001<br>024-35427-001<br>024-35427-003 | n/a                              |
| 2 <sup>s</sup> | Blade                                     | All                                    | 026-43008-000                                                                                      | n/a                              |
| 3              | Guard                                     | All                                    | 026-37521-000                                                                                      |                                  |
| 4              | Orifice                                   | All                                    | 026-43010-000                                                                                      |                                  |
| 5              | Support, Fan                              | All                                    | 026-43007-000                                                                                      | n/a                              |
| 6              | Support, Ring                             | All                                    | 026-38369-000                                                                                      |                                  |
| 7              | Hub, Square                               | All                                    |                                                                                                    |                                  |

<sup>s</sup> = Recommended Spare Parts



**SERVICE NOTE:** Pin Location 52 in Model Number will be "X" for Standard Fan, or "L" for Ultra Low Noise Fan. See page 4.

**SERVICE NOTE:** Fan Hub to Shaft Joint should be sealed with protective coating - factory uses RUST VETO 344 - a solvent type, rust preventative coating.

**FIGURE 4 - FAN COMPONENTS - MODELS QCC2025C, 030C, 040C, 045C, 050C, 060C AND QCC2070C**

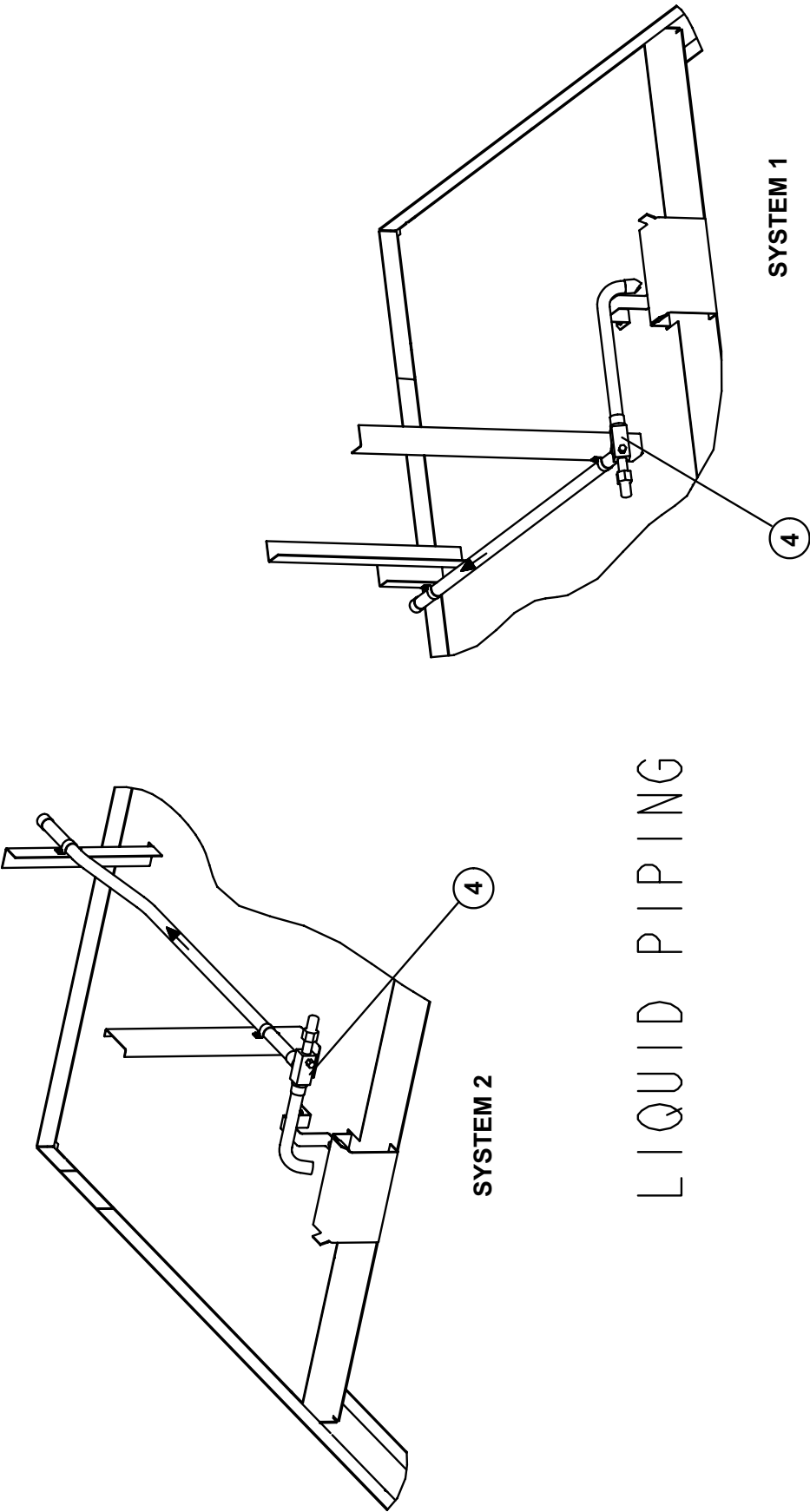
**TABLE 4 - FAN COMPONENTS - MODELS QCC2025C, 030C, 040C, 045C, 050C, 060C AND QCC2070C**

| ITEM           | DESCRIPTION                                                       | VOLTAGE CODE | FAN TYPE                   |                                  |
|----------------|-------------------------------------------------------------------|--------------|----------------------------|----------------------------------|
|                |                                                                   |              | STANDARD<br>7/8", 1150 RPM | ULTRA LOW NOISE<br>7/8", 850 RPM |
| 1 <sup>s</sup> | Motor, Fan 2 HP<br>(025C, 030C, 040C, 045C, 050C,<br>060C & 070C) | -17          | 024-27322-103              | 024-34980-102                    |
|                |                                                                   | -28          | 024-27322-106              | 024-34980-102                    |
|                |                                                                   | -40          | 024-27322-104              | 024-34980-105                    |
|                |                                                                   | -46          | 024-27322-207              | 024-34980-101                    |
|                |                                                                   | -50          | 024-27322-207              | 024-34980-101                    |
|                |                                                                   | -58          | 024-27322-102              | 024-34980-104                    |
| 2 <sup>s</sup> | Blade (025C, 030C, 060C & 070C)                                   | All          | 026-41594-000*             | 026-41942-000                    |
|                | Blade (040C, 045C & 050C)                                         |              | 026-41592-000              | 026-41593-000                    |
| 3              | Guard (025C, 030C, 060C & 070C)                                   | All          | 026-46008-000              |                                  |
|                | Guard (040C, 045C & 050C)                                         |              | 026-37521-000              |                                  |
| 4              | Orifice (025C, 0035, 0065 & 0072)                                 | All          | 026-45789-000              |                                  |
|                | Orifice (0045, 045C & 050C)                                       |              | 026-42029-000              |                                  |
| 5              | Support, Fan                                                      | All          | 026-41937-000*             | 026-45533-000                    |
| 6              | Support, Ring                                                     | All          | 026-36367-000              |                                  |
| 7              | Spacer (.375 I.D.)                                                | All          | 075-29007-000              |                                  |
| 8              | Screw, Cap (M8x125)                                               | All          | 021-18494-000              |                                  |
| 9              | Spacer (1.406 I.D.)                                               | All          | 075-40484-000              |                                  |
| 10             | Hub, Square                                                       | All          | 026-41939-001*             | 026-41939-005                    |

<sup>s</sup> = Recommended Spare Parts

**\*NOTE:** QCC2025C and QCC2030C, -46 & -50 voltage code units use Fan Blade 026-43090-000 and Square Hub 026-41939-002. QCC2060C and QCC2070C, -46 & -50 voltage code units use Fan Blade 026-41594-000, Fan Support 026-41938-000 and Square Hub 026-41939-005.

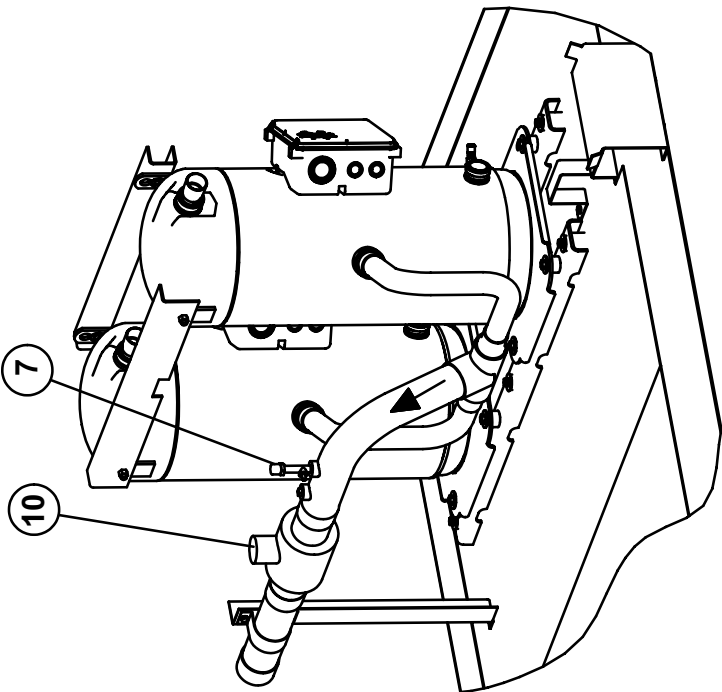
SECTION 3 - REFRIGERANT PIPING COMPONENTS  
CHILLER MODEL QCC2 – STYLE 'E'



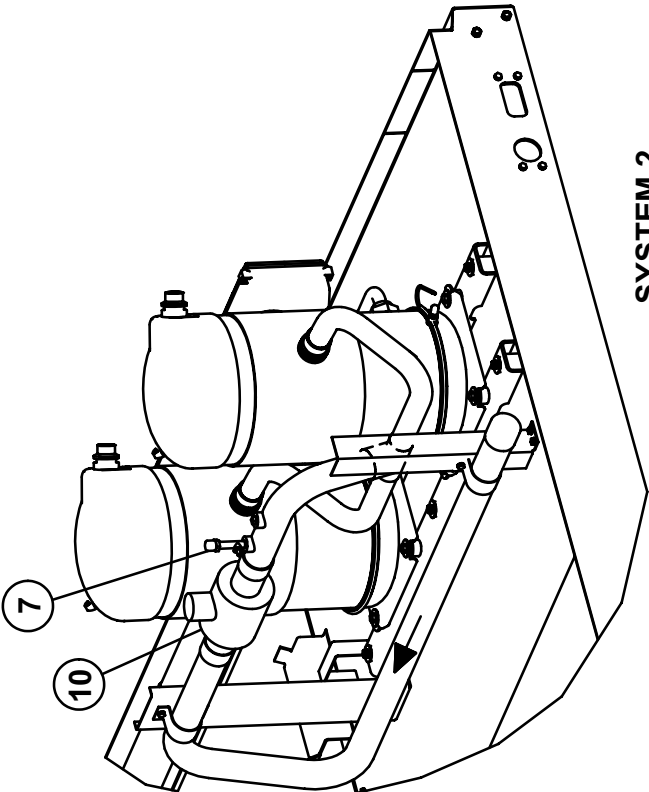
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(Reference Table 5 - 7 starting on page 15)

FIGURE 5 - REFRIGERANT PIPING COMPONENTS - MODEL QCC2070C SHOWN



SYSTEM 1



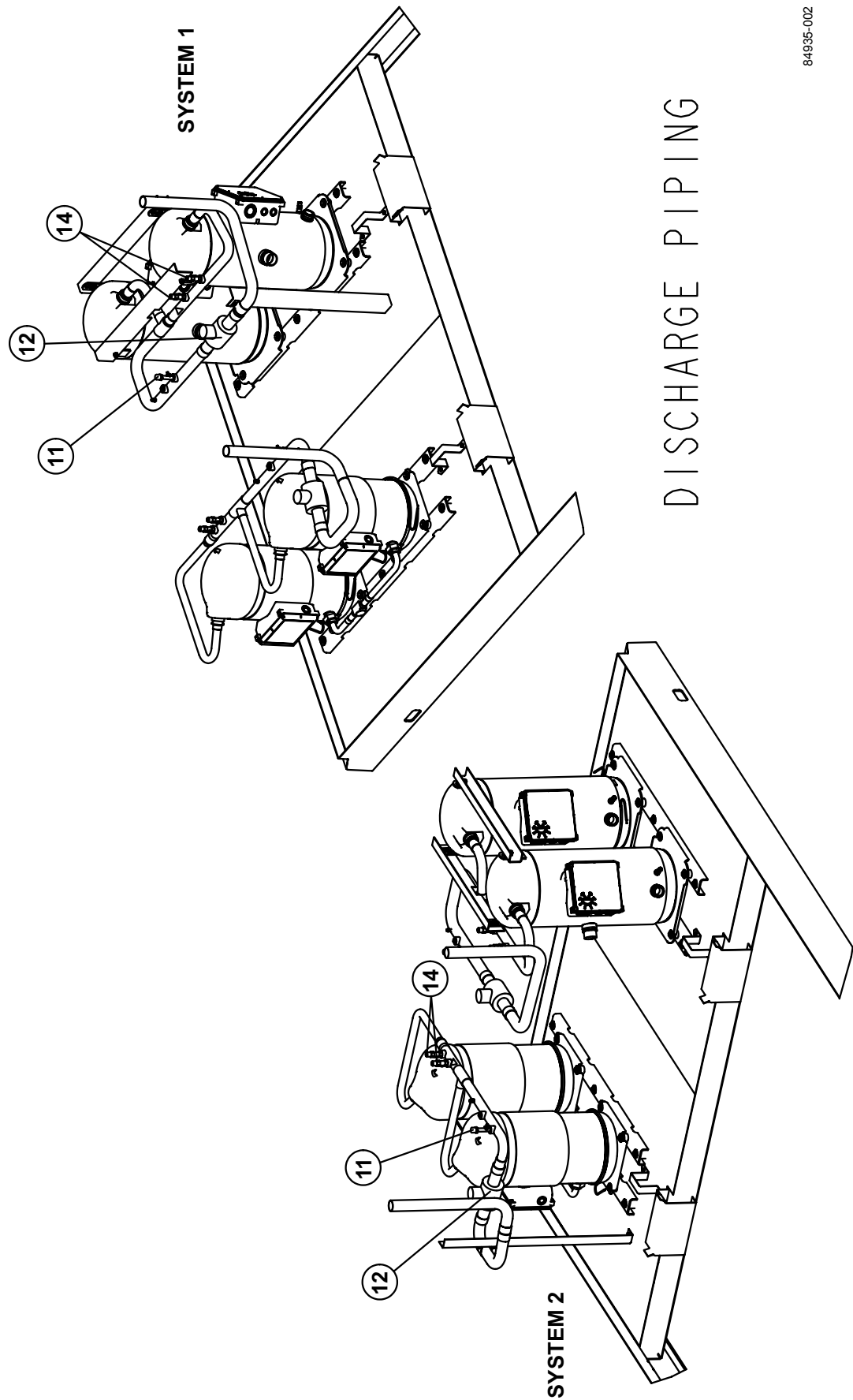
SYSTEM 2

SUCTION PIPING

84935-001

(Reference Tables 5 - 7 starting on page 15)

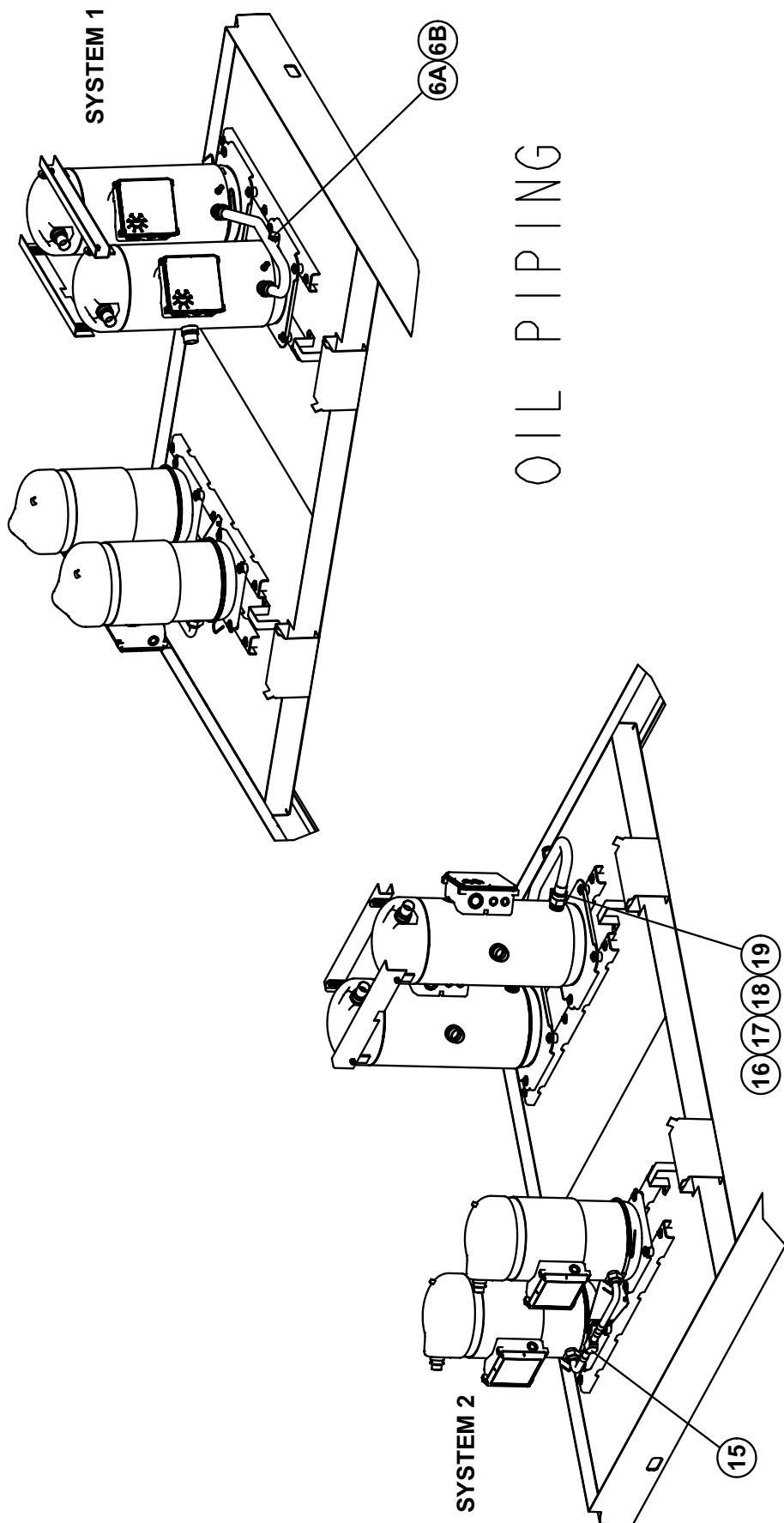
FIGURE 6 - REFRIGERANT PIPING COMPONENTS - MODEL QCC2070C SHOWN



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(Reference Table 5 - 7 starting on page 15 )

FIGURE 7 - REFRIGERANT PIPING COMPONENTS - MODEL QCC2070C SHOWN



84935-004

(Reference Tables 5 - 7 starting on page 15)

**FIGURE 8 - REFRIGERANT PIPING COMPONENTS - MODEL QCC2070C SHOWN**

**TABLE 5 - REFRIGERANT PIPING COMPONENTS**

| ITEM                 | QTY<br>PER<br>UNIT | DESCRIPTION               | SYS. | QCC2015C AND<br>QCC2020C | QCC2025C      | QCC2030C      |
|----------------------|--------------------|---------------------------|------|--------------------------|---------------|---------------|
| <b>4<sup>S</sup></b> | 1                  | Valve, Stop (Liquid Line) | 1    | 022-11306-000            | 022-10022-000 | 022-10022-000 |
| <b>6A</b>            | 1                  | Moisture Indicator        | 1    | 026-12992-000            | 026-12992-000 | 026-12992-000 |
| <b>7</b>             | 1                  | Valve, Access (Suction)   | 1    | 022-00009-000            | 022-00009-000 | 022-00009-000 |
| <b>10A</b>           | 1                  | Valve, Ball (Suction)     | 1    | 022-08883-000            | 022-09752-000 | 022-09752-000 |
| <b>11</b>            | 1                  | Valve, Access (Discharge) | 1    | 022-00009-000            | 022-00009-000 | 022-00009-000 |
| <b>12A</b>           | 1                  | Valve, Ball (Discharge)   | 1    | 022-09750-000            | 022-09750-000 | 022-09750-000 |
| <b>13</b>            | 2                  | Compressor                | 1    | See pages 19 and 21      |               |               |
| <b>14</b>            | 1                  | Valve, Relief (Discharge) | 1    | 022-10682-001            | 022-10682-001 | 022-10682-001 |
| <b>15</b>            | 1                  | Inline Sight Glass        | 1    | 026-41616-000            | 026-41616-000 | 026-41616-000 |

<sup>S</sup> = Recommended Spare Part

See Figures 5 - 8 start on page 11

**TABLE 6 - REFRIGERANT PIPING COMPONENTS**

| ITEM           | QTY<br>PER<br>UNIT | DESCRIPTION                         | SYS. | QCC2040C            | QCC2045C      | QCC2050C      |
|----------------|--------------------|-------------------------------------|------|---------------------|---------------|---------------|
| 4 <sup>S</sup> | 2                  | Valve, Stop (Liquid Line)           | Both | 022-10022-000       | 022-10022-000 | 022-10022-000 |
| 6A             | 2                  | Moisture Indicator, Body            | Both | 026-32397-000       | 026-32397-000 | 026-32397-000 |
| 6B             | 2                  | Moisture Indicator, Sight Glass Cap | Both | 026-32800-000       | 026-32800-000 | 026-32800-000 |
| 7              | 2                  | Valve, Access (Suction)             | Both | 022-00009-000       | 022-00009-000 | 022-00009-000 |
| 10A            | 1                  | Valve, Ball (Suction)               | Sys1 | 022-09752-000       | 022-09752-000 | 022-09752-000 |
| 10B            | 1                  |                                     | Sys2 |                     |               |               |
| 11             | 2                  | Valve, Access (Discharge)           | Both | 022-00009-000       | 022-00009-000 | 022-00009-000 |
| 12A            | 1                  | Valve, Ball (Discharge)             | Sys1 | 022-09750-000       | 022-09750-000 | 022-09750-000 |
| 12B            | 1                  |                                     | Sys2 |                     |               |               |
| 13             | 4                  | Compressor                          | Both | See pages 19 and 21 |               |               |
| 14             | 2                  | Valve, Relief (Discharge)           | Both | 022-10682-001       | 022-10682-001 | 022-10682-001 |
| 15             | 2                  | Inline Sight Glass                  | Both | 026-41616-000       | 026-41616-000 | 026-41616-000 |

<sup>S</sup> = Recommended Spare Part

See Figures 5 - 8 starting on page 11

**TABLE 7 - REFRIGERANT PIPING COMPONENTS**

| ITEM           | QTY<br>PER<br>UNIT | DESCRIPTION                         | SYSTEM | QCC2060C<br>375-66827-100 | QCC2070C      |
|----------------|--------------------|-------------------------------------|--------|---------------------------|---------------|
| 4 <sup>S</sup> | 2                  | Valve, Stop (Liquid Line)           | Both   | 022-10022-000             | 022-10022-000 |
| 6A             | 2                  | Moisture Indicator, Body            | Both   | 026-32397-000             | 026-32397-000 |
| 6B             | 2                  | Moisture Indicator, Sight Glass Cap | Both   | 026-32800-000             | 026-32800-000 |
| 7              | 2                  | Valve, Access (Suction)             | Both   | 022-00009-000             | 022-00009-000 |
| 10A            | 1                  | Valve, Ball (Suction)               | Sys1   | 022-09752-000             | 022-09753-000 |
| 10B            | 1                  |                                     | Sys2   |                           | 022-09752-000 |
| 11             | 2                  | Valve, Access (Discharge)           | Both   | 022-00009-000             | 022-00009-000 |
| 12A            | 1                  | Valve, Ball (Discharge)             | Sys1   | 022-09750-000             | 022-11720-000 |
| 12B            | 1                  |                                     | Sys2   |                           |               |
| 13             | 4                  | Compressor                          | Both   | See pages 16 and 17       |               |
| 14             | 4                  | Valve, Relief (Discharge)           | Both   | 022-10682-001             | 022-10682-001 |
| 15             | 2                  | Inline Sight Glass                  | Both   | 026-41616-000             | 026-41616-000 |

<sup>S</sup> = Recommended Spare Part

See Figures 5 - 8 starting on page 11

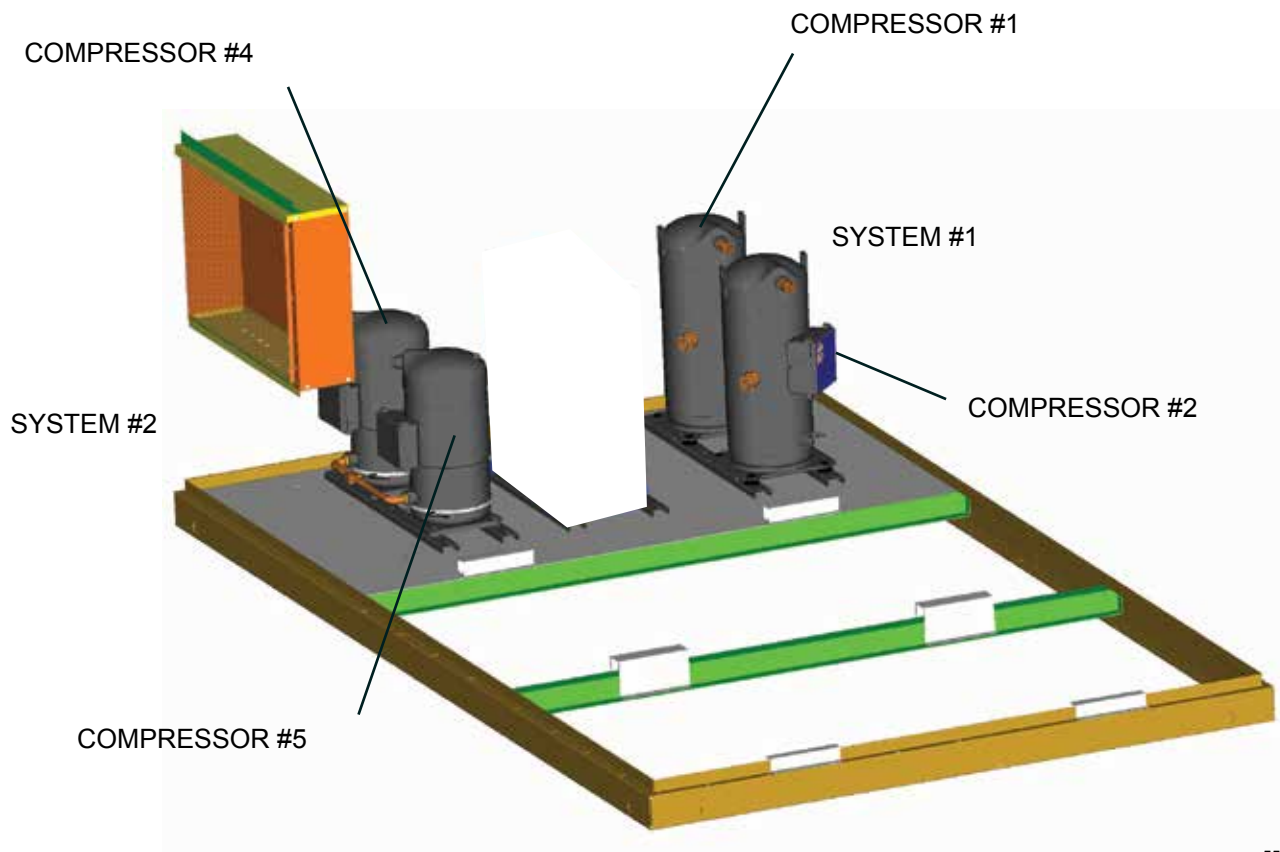
**TABLE 8 - ROTO-LOCK COMPONENTS**

| ITEM      | QTY<br>PER<br>UNIT | DESCRIPTION       | PART<br>NUMBER |
|-----------|--------------------|-------------------|----------------|
| <b>16</b> | 2                  | Nut, Compression  | 023-21925-000  |
| <b>17</b> | 2                  | Sleeve            | 023-21926-000  |
| <b>18</b> | 4                  | Gasket            | 028-15077-000  |
| <b>19</b> | 2                  | Adapter, Straight | 023-20854-000  |

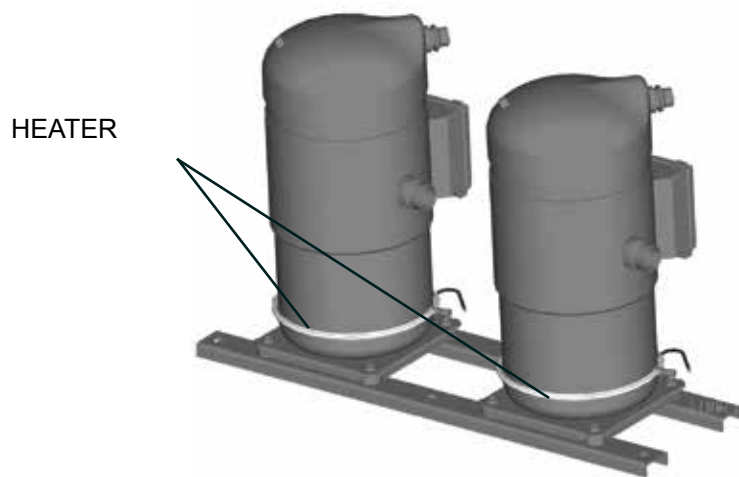
See Figure 8 on page 14



## SECTION 4 - COMPRESSOR COMPONENTS



55692-000-A



Reference Tables 10 and 11 starting on page 23

**FIGURE 9 - COMPRESSOR - TYPICAL LAYOUT**

**TABLE 9 - RECOMMENDED OIL TYPE**

| ITEM             | REFRIGERANT | DESCRIPTION                | (6) 1 GALLON  | 5 GALLON      |
|------------------|-------------|----------------------------|---------------|---------------|
| OIL <sup>S</sup> | R-410A      | OIL, COMPRESSOR (TYPE 'V') | 011-00948-000 | 011-00949-000 |

<sup>S</sup> = Recommended Spare Part

**TABLE 10 - R-410A COMPRESSOR PART NUMBERS**

| MODEL    | VOLTAGE<br>CODE | SYSTEM 1<br>#1 COMPRESSOR |          | SYSTEM 1<br>#2 COMPRESSOR |          | SYSTEM 2<br>#4 COMPRESSOR |          | SYSTEM 2<br>#5 COMPRESSOR |          |
|----------|-----------------|---------------------------|----------|---------------------------|----------|---------------------------|----------|---------------------------|----------|
|          |                 | PART #                    | MODEL #  | PART #                    | MODEL #  | PART #                    | MODEL #  | PART #                    | MODEL #  |
| QCC2015C | -17 & -28       | 015-04041-101             | ZP103KCE | 015-04041-101             | ZP103KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -40             | 015-04041-102             | ZP103KCE | 015-04041-102             | ZP103KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -46 & -50       | 015-04041-104             | ZP103KCE | 015-04041-104             | ZP103KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -58             | 015-04041-105             | ZP103KCE | 015-04041-105             | ZP103KCE | n/a                       | n/a      | n/a                       | n/a      |
| QCC2020C | -17 & -28       | 015-04042-101             | ZP120KCE | 015-04042-101             | ZP120KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -40             | 015-04042-102             | ZP120KCE | 015-04042-102             | ZP120KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -46 & -50       | 015-04042-104             | ZP120KCE | 015-04042-104             | ZP120KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -58             | 015-04042-105             | ZP120KCE | 015-04042-105             | ZP120KCE | n/a                       | n/a      | n/a                       | n/a      |
| QCC2025C | -17 & -28       | 015-04166-101             | ZP182KCE | 015-04055-101             | ZP154KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -40             | 015-04166-102             | ZP182KCE | 015-04055-102             | ZP154KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -46 & -50       | 015-04166-104             | ZP182KCE | 015-04055-104             | ZP154KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -58             | 015-04166-105             | ZP182KCE | 015-04055-105             | ZP154KCE | n/a                       | n/a      | n/a                       | n/a      |
| QCC2030C | -17 & -28       | 015-04045-101             | ZP180KCE | 015-04045-101             | ZP180KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -40             | 015-04045-102             | ZP180KCE | 015-04045-102             | ZP180KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -46 & -50       | 015-04045-104             | ZP180KCE | 015-04045-104             | ZP180KCE | n/a                       | n/a      | n/a                       | n/a      |
|          | -58             | 015-04045-105             | ZP180KCE | 015-04045-105             | ZP180KCE | n/a                       | n/a      | n/a                       | n/a      |
| QCC2040C | -17 & -28       | 015-04042-101             | ZP120KCE | 015-04042-101             | ZP120KCE | 015-04042-101             | ZP120KCE | 015-04042-101             | ZP120KCE |
|          | -40             | 015-04042-102             | ZP120KCE | 015-04042-102             | ZP120KCE | 015-04042-102             | ZP120KCE | 015-04042-102             | ZP120KCE |
|          | -46 & -50       | 015-04042-104             | ZP120KCE | 015-04042-104             | ZP120KCE | 015-04042-104             | ZP120KCE | 015-04042-104             | ZP120KCE |
|          | -58             | 015-04042-105             | ZP120KCE | 015-04042-105             | ZP120KCE | 015-04042-105             | ZP120KCE | 015-04042-105             | ZP120KCE |
| QCC2045C | -17 & -28       | 015-04043-101             | ZP137KCE | 015-04043-101             | ZP137KCE | 015-04042-101             | ZP120KCE | 015-04042-101             | ZP120KCE |
|          | -40             | 015-04043-102             | ZP137KCE | 015-04043-102             | ZP137KCE | 015-04042-102             | ZP120KCE | 015-04042-102             | ZP120KCE |
|          | -46 & -50       | 015-04043-104             | ZP137KCE | 015-04043-104             | ZP137KCE | 015-04042-104             | ZP120KCE | 015-04042-104             | ZP120KCE |
|          | -58             | 015-04043-105             | ZP137KCE | 015-04043-105             | ZP137KCE | 015-04042-105             | ZP120KCE | 015-04042-105             | ZP120KCE |
| QCC2050C | -17 & -28       | 015-04055-101             | ZP154KCE | 015-04055-101             | ZP154KCE | 015-04055-101             | ZP154KCE | 015-04055-101             | ZP154KCE |
|          | -40             | 015-04055-102             | ZP154KCE | 015-04055-102             | ZP154KCE | 015-04055-102             | ZP154KCE | 015-04055-102             | ZP154KCE |
|          | -46 & -50       | 015-04055-104             | ZP154KCE | 015-04055-104             | ZP154KCE | 015-04055-104             | ZP154KCE | 015-04055-104             | ZP154KCE |
|          | -58             | 015-04055-105             | ZP154KCE | 015-04055-105             | ZP154KCE | 015-04055-105             | ZP154KCE | 015-04055-105             | ZP154KCE |
| QCC2060C | -17 & -28       | 015-04166-101             | ZP182KCE | 015-04166-101             | ZP182KCE | 015-04166-101             | ZP182KCE | 015-04166-101             | ZP182KCE |
|          | -40             | 015-04166-102             | ZP182KCE | 015-04166-102             | ZP182KCE | 015-04166-102             | ZP182KCE | 015-04166-102             | ZP182KCE |
|          | -46 & -50       | 015-04166-104             | ZP182KCE | 015-04166-104             | ZP182KCE | 015-04166-104             | ZP182KCE | 015-04166-104             | ZP182KCE |
|          | -58             | 015-04166-105             | ZP182KCE | 015-04166-105             | ZP182KCE | 015-04166-105             | ZP182KCE | 015-04166-105             | ZP182KCE |
| QCC2070C | -17 & -28       | 015-04044-101             | ZP235KCE | 015-04044-101             | ZP235KCE | 015-04045-101             | ZP180KCE | 015-04045-101             | ZP180KCE |
|          | -40             | 015-04044-102             | ZP235KCE | 015-04044-102             | ZP235KCE | 015-04045-102             | ZP180KCE | 015-04045-102             | ZP180KCE |
|          | -46 & -50       | 015-04044-104             | ZP235KCE | 015-04044-104             | ZP235KCE | 015-04045-104             | ZP180KCE | 015-04045-104             | ZP180KCE |
|          | -58             | 015-04044-105             | ZP235KCE | 015-04044-105             | ZP235KCE | 015-04045-105             | ZP180KCE | 015-04045-105             | ZP180KCE |

See Figure 4 on page 10

**TABLE 11 - COMPRESSOR HEATER AND COMPRESSOR SOUND BLANKET PART NUMBERS**

| COMPRESSOR PART NUMBER | HEATER PART NUMBER | QUANTITY PER COMPRESSOR | SOUND BLANKET PART NUMBER | QUANTITY PER COMPRESSOR |
|------------------------|--------------------|-------------------------|---------------------------|-------------------------|
| 015-04041-xxx          | 025-40351-000      | 1                       | 010-06507-005             | 1                       |
| 015-04042-xxx          | 025-40351-000      | 1                       | 010-06507-005             | 1                       |
| 015-04043-xxx          | 025-40351-000      | 1                       | 010-06507-005             | 1                       |
| 015-04044-xxx          | 025-37852-000      | 1                       | 010-06507-001             | 1                       |
| 015-04045-xxx          | 025-37888-000      | 1                       | 010-06507-002             | 1                       |
| 015-04055-xxx          | 025-40351-000      | 1                       | 010-06507-007             | 1                       |
| 015-04166-xxx          | 025-37888-000      | 1                       | 010-06507-007             | 1                       |

See Figure 4 on page 10

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## SECTION 5 - CONTROL PANEL AND POWER PANEL CONFIGURATIONS

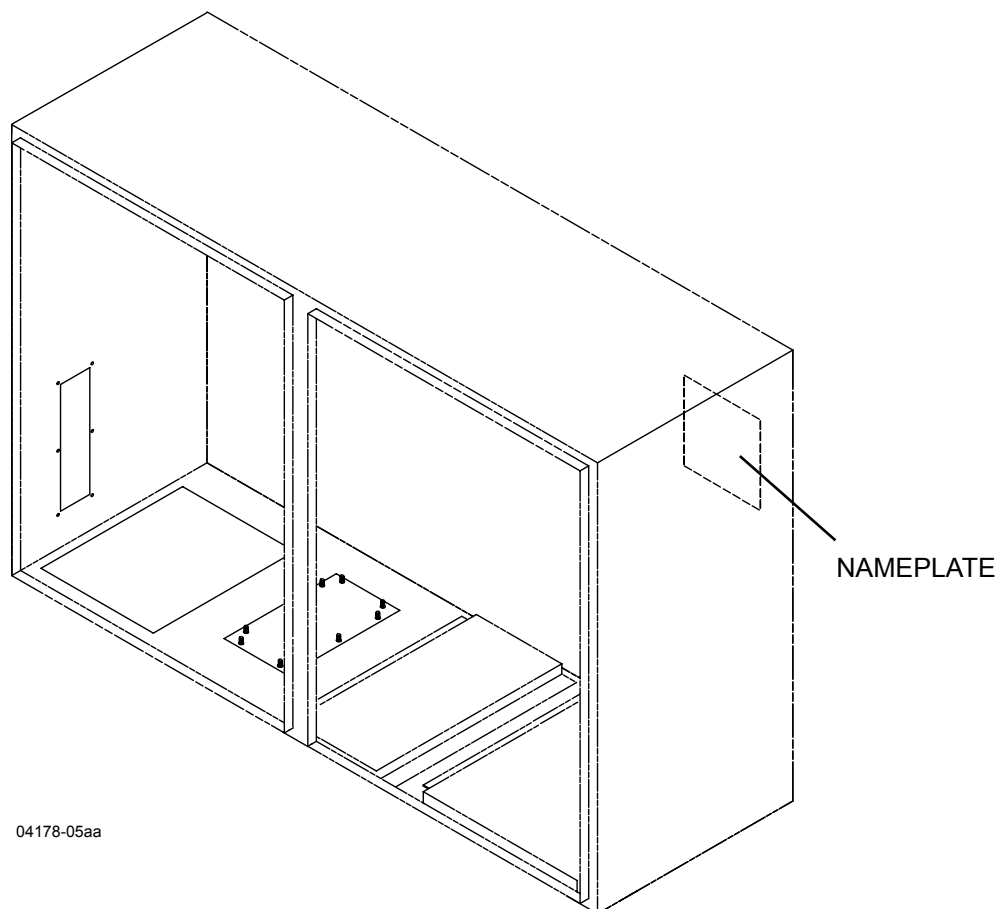
Power panels and option panels are offered in several different configurations using three (3) major components:

1. TERMINAL BLOCKS
2. CIRCUIT BREAKERS
3. NON-FUSED DISCONNECT SWITCHES

The most basic chiller power wiring configuration uses TERMINAL BLOCKS in the power panels, and an options panel with no power wire termination hardware. See figures on previous page. The model pin number locations 16 and 17 would be X and X to reflect this basic combination. Identify model pin number locations 16 and 17 to identify the chiller power wiring connections and hardware listed below.

5

| PIN 16 & 17<br>LETTER CODE<br>IDENTIFIERS |   | OPTION PANEL AND POWER PANEL CONFIGURATIONS     |
|-------------------------------------------|---|-------------------------------------------------|
| S                                         | X | Single Point Supply Terminal Block              |
| S                                         | D | Single Point Supply Non-Fused Disconnect Switch |
| B                                         | X | Single Point Supply Circuit Breaker             |



**FIGURE 10 - CONTROL AND POWER PANEL NAMEPLATE LOCATION**

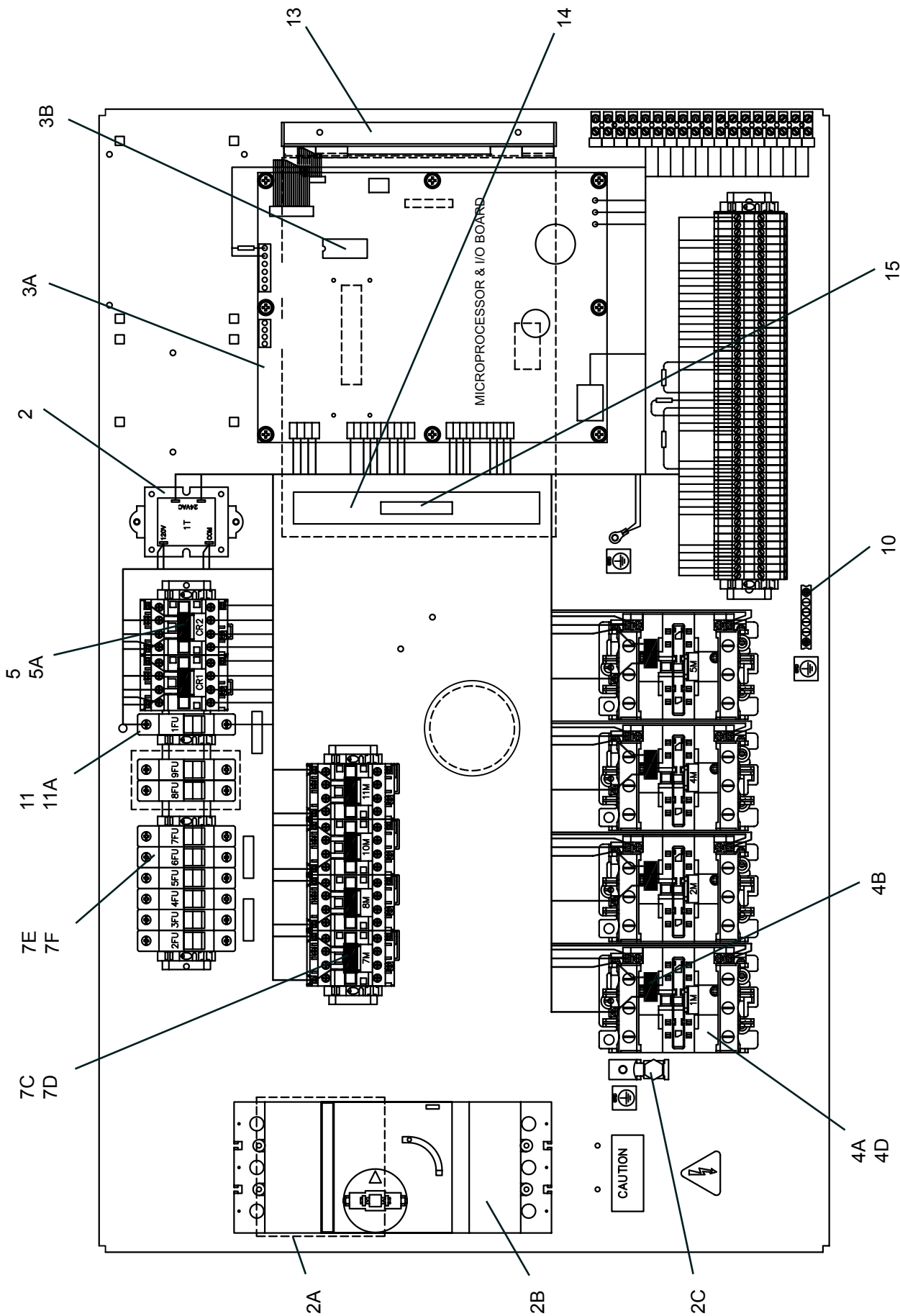
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## SECTION 6 - CONTROL PANEL AND POWER PANEL COMPONENTS

**TABLE 12 - CONTROL PANEL AND POWER PANEL IDENTIFIERS (TO IDENTIFY REPLACEMENT PART NUMBERS)**

| MODEL    | VOLTAGE CODE | SINGLE POINT TERMINAL BLOCK (SX) | SINGLE POINT NON-FUSED DISCONNECT SWITCH (SD) | SINGLE POINT CIRCUIT BREAKER (BX) |
|----------|--------------|----------------------------------|-----------------------------------------------|-----------------------------------|
| QCC2015C | 17 & 28      | 371-05161-101                    | 371-05161-201                                 | 371-05161-301                     |
|          | 40 & 46      | 371-05161-102                    | 371-05161-202                                 | 371-05161-302                     |
|          | 50 & 58      | 371-05161-102                    | 371-05161-202                                 | 371-05161-302                     |
| QCC2020C | 17 & 28      | 371-05161-101                    | 371-05161-201                                 | 371-05161-301                     |
|          | 40 & 46      | 371-05161-102                    | 371-05161-202                                 | 371-05161-302                     |
|          | 50 & 58      | 371-05161-102                    | 371-05161-202                                 | 371-05161-302                     |
| QCC2025C | 17 & 28      | 371-05162-101                    | 371-05162-201                                 | 371-05162-301                     |
|          | 40 & 46      | 371-05162-102                    | 371-05162-202                                 | 371-05162-302                     |
|          | 50 & 58      | 371-05162-102                    | 371-05162-202                                 | 371-05162-302                     |
| QCC2030C | 17 & 28      | 371-05162-101                    | 371-05162-201                                 | 371-05162-301                     |
|          | 40 & 46      | 371-05162-102                    | 371-05162-202                                 | 371-05162-302                     |
|          | 50 & 58      | 371-05162-102                    | 371-05162-202                                 | 371-05162-302                     |
| QCC2040C | 17 & 28      | 371-05163-101                    | 371-05163-201                                 | 371-05163-301                     |
|          | 40 & 46      | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
|          | 50 & 58      | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
| QCC2045C | 17 & 28      | 371-05163-101                    | 371-05163-201                                 | 371-05163-301                     |
|          | 40 & 46      | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
|          | 50 & 58      | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
| QCC2050C | 17, 28 & 40  | 371-05163-103                    | 371-05163-203                                 | 371-05163-303                     |
|          | 46, 50 & 58  | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
| QCC2060C | 17, 28 & 40  | 371-05163-103                    | 371-05163-203                                 | 371-05163-303                     |
|          | 46, 50 & 58  | 371-05163-102                    | 371-05163-202                                 | 371-05163-302                     |
| QCC2070C | 17 & 28      | 371-05163-103                    | 371-05163-203                                 | 371-05163-303                     |
|          | 40 & 46      | 371-05163-104                    | 371-05163-204                                 | 371-05163-304                     |
|          | 50 & 58      | 371-05163-104                    | 371-05163-204                                 | 371-05163-304                     |

Select panel part number from the tables above or from the panel nameplate label shown on *Figure 10 on page 21*, then refer to the 'control and power panel components' information *Table 13 on page 26*. See *Figure 11 on page 24* and *Figure 12 on page 25*.

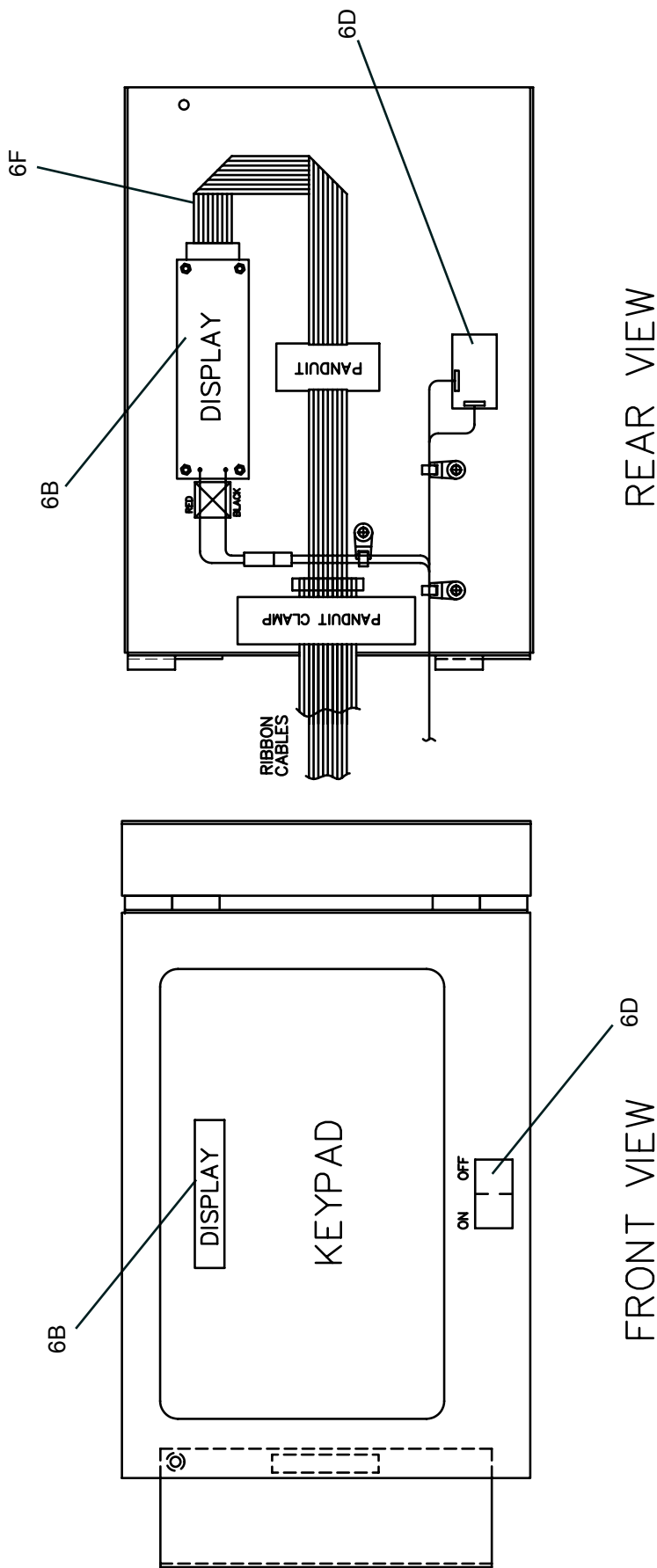


206985-sh11

Reference Table 13 on page 26

FIGURE 11 - CONTROL AND POWER PANEL COMPONENTS





202777-3

Reference Table 13 on page 26

FIGURE 12 - CONTROL AND POWER PANEL COMPONENTS

**TABLE 13 - CONTROL AND POWER PANEL COMPONENTS**

| Item       | Qty | Description                          | QCC2015C-17 & QCC2015C-28<br>QCC2020C-17 & QCC2020C-28 |                       |                       | QCC2015C-40 & QCC2015C-46<br>QCC2020C-40 & QCC2020C-46 |                       |                       | QCC2015C-50 & QCC2015C-58<br>QCC2020C-50 & QCC2020C-58 |                       |                       |
|------------|-----|--------------------------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|
|            |     |                                      | 371-05161-101<br>SX**                                  | 371-05161-201<br>SD** | 371-05161-301<br>BX** | 371-05161-102<br>SX**                                  | 371-05161-202<br>SD** | 371-05161-302<br>BX** | 371-05161-102<br>SX**                                  | 371-05161-202<br>SD** | 371-05161-302<br>BX** |
| <b>2</b>   | 1   | Control Transformer                  | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         |
|            | 1   | Single Point<br>Terminal Block       | 025-39423-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   |
| <b>2A</b>  | 1   | Single Point<br>Circuit Breaker      | N/A                                                    | N/A                   | 025-34419-000         | N/A                                                    | N/A                   | 024-35973-000         | N/A                                                    | N/A                   | 024-35973-000         |
|            | 1   | Single Point NF<br>Disconnect Switch | N/A                                                    | 024-31871-000         | N/A                   | N/A                                                    | 024-31888-000         | N/A                   | N/A                                                    | 024-31888-000         | N/A                   |
| <b>2B</b>  | 1   | Lugs                                 | N/A                                                    | 025-34480-000         | 025-34418-000         | N/A                                                    | 025-34478-000         | 025-40823-000         | N/A                                                    | 025-34478-000         | 025-40823-000         |
| <b>2C</b>  | 1   | Ground Lug                           | 025-34455-000                                          | 025-34089-000         | 025-34089-000         | 025-34455-000                                          | 025-34089-000         | 025-34455-000         | 025-34455-000                                          | 025-34089-000         | 025-34455-000         |
| <b>3A</b>  | 1   | Control Board                        | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        |
| <b>3B</b>  | 1   | Flash Card                           | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         |
| <b>4A</b>  | 4   | Compressor Contactor                 | 024-35467-000                                          | 024-35467-000         | 024-35467-000         | 024-35459-000                                          | 024-35459-000         | 024-35459-000         | 024-35459-000                                          | 024-35459-000         | 024-35459-000         |
| <b>4B</b>  | 4   | Surge Suppressor                     | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>4D</b>  | 4   | Auxiliary Contact                    | 024-35493-000                                          | N/A                   | N/A                   | 024-35493-000                                          | N/A                   | N/A                   | 024-35493-000                                          | N/A                   | N/A                   |
| <b>5</b>   | 2   | Control Relay                        | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         |
| <b>5A</b>  | 2   | Surge Suppressor                     | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>6B</b>  | 1   | Display                              | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         |
| <b>6D</b>  | 1   | Switch                               | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         |
| <b>6F</b>  | 1   | Ribbon Cable                         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         |
| <b>7C</b>  | 4   | Fan Contactor                        | 024-35441-000                                          | 024-35441-000         | 024-35441-000         | 024-35441-000                                          | 024-35441-000         | 024-35441-000         | 024-35441-000                                          | 024-35441-000         | 024-35441-000         |
| <b>7D</b>  | 4   | Surge Suppressor                     | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>7E</b>  | 2   | Fuse Block                           | 025-37864-000                                          | 025-37864-000         | 025-37864-000         | 025-37864-000                                          | 025-37864-000         | 025-37864-000         | 025-37864-000                                          | 025-37864-000         | 025-37864-000         |
| <b>7F</b>  | 6   | Fuse                                 | 025-34139-000                                          | 025-34139-000         | 025-34139-000         | 025-34139-000                                          | 025-34139-000         | 025-34139-000         | 025-34139-000                                          | 025-34139-000         | 025-34139-000         |
| <b>10</b>  | 1   | Ground Bar                           | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         |
| <b>11</b>  | 1   | Fuse Block                           | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         |
| <b>11A</b> | 1   | Fuse                                 | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         |

**Service Note:** Locate the PANEL NAMEPLATE label on the upper right hand corner of the power panel (See Figure 10 on page 21), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (See example on Page 4) then compare to table at left for power configuration options.

See Figures 11 AND 12 starting on page 24

|             |                                          |
|-------------|------------------------------------------|
| <b>SX**</b> | SINGLE POINT TERMINAL BLOCK              |
| <b>SD**</b> | SINGLE POINT NON-FUSED DISCONNECT SWITCH |
| <b>BX**</b> | SINGLE POINT CIRCUIT BREAKER             |

**\*NOTE:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system Quantech units.

**TABLE 13 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)**

| Item       | Qty | Description                       | QCC2025C-17 & QCC2025C-28<br>QCC2030C-17 & QCC2030C-28 |                       |                       | QCC2025C-40 & QCC2025C-46<br>QCC2030C-40 & QCC2030C-46 |                       |                       | QCC2025C-50 & QCC2025C-58<br>QCC2030C-50 & QCC2030C-58 |                       |                       |
|------------|-----|-----------------------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|
|            |     |                                   | 371-05162-101<br>SX**                                  | 371-05162-201<br>SD** | 371-05162-301<br>BX** | 371-05162-102<br>SX**                                  | 371-05162-202<br>SD** | 371-05162-302<br>BX** | 371-05162-102<br>SX**                                  | 371-05162-202<br>SD** | 371-05162-302<br>BX** |
| <b>2</b>   | 1   | Control Transformer               | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         |
| <b>2A</b>  | 1   | Single Point Terminal Block       | 025-39386-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   |
|            | 1   | Single Point Circuit Breaker      | N/A                                                    | N/A                   | 025-34419-000         | N/A                                                    | N/A                   | 025-34419-000         | N/A                                                    | N/A                   | 025-34419-000         |
|            | 1   | Single Point NF Disconnect Switch | N/A                                                    | 024-31871-000         | N/A                   | N/A                                                    | 024-31888-000         | N/A                   | N/A                                                    | 024-31888-000         | N/A                   |
| <b>2B</b>  | 1   | Lugs                              | N/A                                                    | 025-34480-000         | 025-34480-000         | N/A                                                    | 025-34478-000         | 025-34418-000         | N/A                                                    | 025-34478-000         | 025-34418-000         |
| <b>2C</b>  | 1   | Ground Lug                        | 025-34089-000                                          | 025-34089-000         | 025-34089-000         | 025-34089-000                                          | 025-34089-000         | 025-34089-000         | 025-34089-000                                          | 025-34089-000         | 025-34089-000         |
| <b>2D</b>  | 3   | IPU 2                             | 031-02630-001                                          | 031-02630-001         | 031-02630-001         | 031-02630-001                                          | 031-02630-001         | 031-02630-001         | 031-02630-001                                          | 031-02630-001         | 031-02630-001         |
| <b>3A</b>  | 1   | Control Board                     | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        | 031-02550-100*                                         | 031-02550-100*        | 031-02550-100*        |
| <b>3B</b>  | 1   | Flash Card                        | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         |
| <b>4A</b>  | 4   | Compressor Contactor              | 024-35470-000                                          | 024-35470-000         | 024-35470-000         | 024-35462-000                                          | 024-35462-000         | 024-35462-000         | 024-35462-000                                          | 024-35462-000         | 024-35462-000         |
| <b>4B</b>  | 4   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>4D</b>  | 4   | Auxiliary Contact                 | 024-35493-000                                          | N/A                   | N/A                   | N/A                                                    | N/A                   | N/A                   | N/A                                                    | N/A                   | N/A                   |
| <b>5</b>   | 2   | Control Relay                     | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         |
| <b>5A</b>  | 2   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>6B</b>  | 1   | Display                           | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         |
| <b>6D</b>  | 1   | Switch                            | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         |
| <b>6F</b>  | 1   | Ribbon Cable                      | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         |
| <b>7C</b>  | 4   | Fan Contactor                     | 024-35444-000                                          | 024-35444-000         | 024-35444-000         | 024-35444-000                                          | 024-35444-000         | 024-35444-000         | 024-35444-000                                          | 024-35444-000         | 024-35444-000         |
| <b>7D</b>  | 4   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| <b>7E</b>  | 2   | Fuse Block                        | 025-37863-000                                          | 025-37863-000         | 025-37863-000         | 025-37863-000                                          | 025-37863-000         | 025-37863-000         | 025-37863-000                                          | 025-37863-000         | 025-37863-000         |
| <b>7F</b>  | 6   | Fuse                              | 025-34142-000                                          | 025-34142-000         | 025-34142-000         | 025-34142-000                                          | 025-34142-000         | 025-34142-000         | 025-34142-000                                          | 025-34142-000         | 025-34142-000         |
| <b>10</b>  | 1   | Ground Bar                        | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         |
| <b>11</b>  | 1   | Fuse Block                        | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         |
| <b>11A</b> | 1   | Fuse                              | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         |

**Service Note:** Locate the PANEL NAMEPLATE label on the upper right hand corner of the power panel (See Figure 10 on page 21), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (See example on Page 4) then compare to table at left for power configuration options.  
See Figures 11 and 12 starting on page 24.

|             |                                          |
|-------------|------------------------------------------|
| <b>SX**</b> | SINGLE POINT TERMINAL BLOCK              |
| <b>SD**</b> | SINGLE POINT NON-FUSED DISCONNECT SWITCH |
| <b>BX**</b> | SINGLE POINT CIRCUIT BREAKER             |

**\*NOTE:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system Quantech units.

TABLE 13 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)

| Item | Qty | Description                       | QCC2040C-17 & QCC2040C-28<br>QCC2045C-17 & QCC2045C-28 |                       |                       | QCC2040C-40 & QCC2040C-46<br>QCC2045C-40 & QCC2045C-46 |                       |                       | QCC2040C-50 & QCC2040C-58<br>QCC2045C-50 & QCC2045C-58 |                       |                       |
|------|-----|-----------------------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|
|      |     |                                   | 371-05163-101<br>SX**                                  | 371-05163-201<br>SD** | 371-05163-301<br>BX** | 371-05163-102<br>SX**                                  | 371-05163-202<br>SD** | 371-05163-302<br>BX** | 371-05163-102<br>SX**                                  | 371-05163-202<br>SD** | 371-05163-302<br>BX** |
| 2    | 1   | Control Transformer               | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         |
| 2A   | 1   | Single Point Terminal Block       | 025-39410-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   | 025-39423-000                                          | N/A                   | N/A                   |
|      | 1   | Single Point Circuit Breaker      | N/A                                                    | N/A                   | 025-34424-000         | N/A                                                    | N/A                   | 025-34419-000         | N/A                                                    | N/A                   | 025-34419-000         |
|      | 1   | Single Point NF Disconnect Switch | N/A                                                    | 024-30964-000         | N/A                   | N/A                                                    | N/A                   | N/A                   | N/A                                                    | N/A                   | N/A                   |
| 2B   | 1   | Lugs                              | N/A                                                    | 025-34420-000         | 025-34420-000         | N/A                                                    | 025-34480-000         | 025-34418-000         | N/A                                                    | 025-34480-000         | 025-34418-000         |
| 2C   | 1   | Ground Lug                        | 025-34089-000                                          | 025-34089-000         | 025-34089-000         | 025-34089-000                                          | 025-34089-000         | 025-34089-000         | 025-34089-000                                          | 025-34089-000         | 025-34089-000         |
| 3A   | 1   | Control Board                     | 031-02550-000*                                         | 031-02550-000*        | 031-02550-000*        | 031-02550-000*                                         | 031-02550-000*        | 031-02550-000*        | 031-02550-000*                                         | 031-02550-000*        | 031-02550-000*        |
| 3B   | 1   | Flash Card                        | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         |
| 4A   | 4   | Compressor Contactor              | 024-35467-000                                          | 024-35467-000         | 024-35467-000         | 024-35459-000                                          | 024-35459-000         | 024-35459-000         | 024-35459-000                                          | 024-35459-000         | 024-35459-000         |
| 4B   | 4   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| 4D   | 4   | Auxiliary Contact                 | 024-35493-000                                          | N/A                   | N/A                   | 024-35493-000                                          | N/A                   | N/A                   | 024-35493-000                                          | N/A                   | N/A                   |
| 5    | 2   | Control Relay                     | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         |
| 5A   | 2   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| 6B   | 1   | Display                           | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         |
| 6D   | 1   | Switch                            | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         |
| 6F   | 1   | Ribbon Cable                      | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         |
| 7C   | 4   | Fan Contactor                     | 024-35444-000                                          | 024-35444-000         | 024-35444-000         | 024-35441-000                                          | 024-35441-000         | 024-35441-000         | 024-35441-000                                          | 024-35441-000         | 024-35441-000         |
| 7D   | 4   | Surge Suppressor                  | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         |
| 7E   | 2   | Fuse Block                        | 025-37863-000                                          | 025-37863-000         | 025-37863-000         | 025-37863-000                                          | 025-37863-000         | 025-37863-000         | 025-37863-000                                          | 025-37863-000         | 025-37863-000         |
| 7F   | 6   | Fuse                              | 025-34142-000                                          | 025-34142-000         | 025-34142-000         | 025-34142-000                                          | 025-34142-000         | 025-34142-000         | 025-34142-000                                          | 025-34142-000         | 025-34142-000         |
| 10   | 1   | Ground Bar                        | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         |
| 11   | 1   | Fuse Block                        | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         |
| 11A  | 1   | Fuse                              | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         |

**Service Note:** Locate the PANEL NAMEPLATE label on the upper right hand corner of the power panel (See Figure 10 on page 21), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (See example on Page 4) then compare to table at left for power configuration options.

See Figures 11 and 12 starting on page 24

|      |                                          |
|------|------------------------------------------|
| SX** | SINGLE POINT TERMINAL BLOCK              |
| SD** | SINGLE POINT NON-FUSED DISCONNECT SWITCH |
| BX** | SINGLE POINT CIRCUIT BREAKER             |

**\*NOTE:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system Quantech units.

**TABLE 13 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)**

| Item | Qty | Description                       | QCC2050C-17, QCC2050C-28 & QCC2050C-40<br>QCC2060C-17, QCC2060C-28 & QCC2060C-40 |                       |                       |                       | QCC2050C-46<br>QCC2060C-46 |                       |                       |                       | QCC2050C-50 & QCC2050C-58<br>QCC2060C-50 & QCC2060C-58 |                       |                       |                       |
|------|-----|-----------------------------------|----------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|-----------------------|--------------------------------------------------------|-----------------------|-----------------------|-----------------------|
|      |     |                                   | 371-05163-103<br>SX**                                                            | 371-05163-203<br>SD** | 371-05163-303<br>BX** | 371-05163-102<br>SX** | 371-05163-202<br>SD**      | 371-05163-302<br>BX** | 371-05163-102<br>SX** | 371-05163-202<br>SD** | 371-05163-302<br>BX**                                  | 371-05163-102<br>SX** | 371-05163-202<br>SD** | 371-05163-302<br>BX** |
| 2    | 1   | Control Transformer               | 025-27911-000                                                                    | 025-27911-000         | 025-27911-000         | 025-27911-000         | 025-27911-000              | 025-27911-000         | 025-27911-000         | 025-27911-000         | 025-27911-000                                          | 025-27911-000         | 025-27911-000         | 025-27911-000         |
| 2A   | 1   | Single Point Terminal Block       | 025-39410-000                                                                    | N/A                   | N/A                   | 025-39423-000         | N/A                        | N/A                   | 025-34419-000         | N/A                   | N/A                                                    | N/A                   | N/A                   | N/A                   |
|      | 1   | Single Point Circuit Breaker      | N/A                                                                              | N/A                   | 025-34424-000         | N/A                   | N/A                        | 025-34419-000         | N/A                   | N/A                   | N/A                                                    | N/A                   | N/A                   | 025-34419-000         |
|      | 1   | Single Point NF Disconnect Switch | N/A                                                                              | 024-30964-000         | N/A                   | N/A                   | 024-31888-000              | N/A                   | N/A                   | 024-31888-000         | N/A                                                    | N/A                   | 024-31888-000         | N/A                   |
| 2B   | 1   | Lugs                              | N/A                                                                              | 025-34481-000         | 025-34481-000         | N/A                   | 025-34480-000              | 025-34418-000         | N/A                   | 025-34480-000         | 025-34418-000                                          | N/A                   | 025-34480-000         | 025-34418-000         |
| 2C   | 1   | Ground Lug                        | 025-34089-000                                                                    | 025-34089-000         | 025-34089-000         | 025-34089-000         | 025-34089-000              | 025-34089-000         | 025-34089-000         | 025-34089-000         | 025-34089-000                                          | 025-34089-000         | 025-34089-000         | 025-34089-000         |
| 3A   | 1   | Control Board                     | 031-02550-000*                                                                   | 031-02550-000*        | 031-02550-000*        | 031-02550-000*        | 031-02550-000*             | 031-02550-000*        | 031-02550-000*        | 031-02550-000*        | 031-02550-000*                                         | 031-02550-000*        | 031-02550-000*        | 031-02550-000*        |
| 3B   | 1   | Flash Card                        | 031-02755-001                                                                    | 031-02755-001         | 031-02755-001         | 031-02755-001         | 031-02755-001              | 031-02755-001         | 031-02755-001         | 031-02755-001         | 031-02755-001                                          | 031-02755-001         | 031-02755-001         | 031-02755-001         |
| 4A   | 4   | Compressor Contactor              | 024-35473-000                                                                    | 024-35473-000         | 024-35473-000         | 024-35459-000         | 024-35459-000              | 024-35459-000         | 024-35459-000         | 024-35459-000         | 024-35459-000                                          | 024-35459-000         | 024-35459-000         | 024-35459-000         |
| 4B   | 4   | Surge Suppressor                  | 031-00808-000                                                                    | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000              | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000         |
| 4D   | 4   | Auxiliary Contact                 | 024-35493-000                                                                    | N/A                   | N/A                   | 024-35493-000         | N/A                        | N/A                   | 024-35493-000         | N/A                   | N/A                                                    | 024-35493-000         | N/A                   | N/A                   |
| 5    | 2   | Control Relay                     | 024-35526-000                                                                    | 024-35526-000         | 024-35526-000         | 024-35526-000         | 024-35526-000              | 024-35526-000         | 024-35526-000         | 024-35526-000         | 024-35526-000                                          | 024-35526-000         | 024-35526-000         | 024-35526-000         |
| 5A   | 2   | Surge Suppressor                  | 031-00808-000                                                                    | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000              | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000         |
| 6B   | 1   | Display                           | 031-02749-000                                                                    | 031-02749-000         | 031-02749-000         | 031-02749-000         | 031-02749-000              | 031-02749-000         | 031-02749-000         | 031-02749-000         | 031-02749-000                                          | 031-02749-000         | 031-02749-000         | 031-02749-000         |
| 6D   | 1   | Switch                            | 024-25517-000                                                                    | 024-25517-000         | 024-25517-000         | 024-25517-000         | 024-25517-000              | 024-25517-000         | 024-25517-000         | 024-25517-000         | 024-25517-000                                          | 024-25517-000         | 024-25517-000         | 024-25517-000         |
| 6F   | 1   | Ribbon Cable                      | 031-02108-000                                                                    | 031-02108-000         | 031-02108-000         | 031-02108-000         | 031-02108-000              | 031-02108-000         | 031-02108-000         | 031-02108-000         | 031-02108-000                                          | 031-02108-000         | 031-02108-000         | 031-02108-000         |
| 7C   | 4   | Fan Contactor                     | 024-35444-000                                                                    | 024-35444-000         | 024-35444-000         | 024-35444-000         | 024-35444-000              | 024-35444-000         | 024-35444-000         | 024-35444-000         | 024-35444-000                                          | 024-35444-000         | 024-35444-000         | 024-35444-000         |
| 7D   | 4   | Surge Suppressor                  | 031-00808-000                                                                    | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000              | 031-00808-000         | 031-00808-000         | 031-00808-000         | 031-00808-000                                          | 031-00808-000         | 031-00808-000         | 031-00808-000         |
| 7E   | 2   | Fuse Block                        | 025-37863-000                                                                    | 025-37863-000         | 025-37863-000         | 025-37863-000         | 025-37863-000              | 025-37863-000         | 025-37863-000         | 025-37863-000         | 025-37863-000                                          | 025-37863-000         | 025-37863-000         | 025-37863-000         |
| 7F   | 6   | Fuse                              | 025-34142-000                                                                    | 025-34142-000         | 025-34142-000         | 025-34142-000         | 025-34142-000              | 025-34142-000         | 025-34142-000         | 025-34142-000         | 025-34142-000                                          | 025-34142-000         | 025-34142-000         | 025-34142-000         |
| 10   | 1   | Ground Bar                        | 025-35685-000                                                                    | 025-35685-000         | 025-35685-000         | 025-35685-000         | 025-35685-000              | 025-35685-000         | 025-35685-000         | 025-35685-000         | 025-35685-000                                          | 025-35685-000         | 025-35685-000         | 025-35685-000         |
| 11   | 1   | Fuse Block                        | 025-37862-000                                                                    | 025-37862-000         | 025-37862-000         | 025-37862-000         | 025-37862-000              | 025-37862-000         | 025-37862-000         | 025-37862-000         | 025-37862-000                                          | 025-37862-000         | 025-37862-000         | 025-37862-000         |
| 11A  | 1   | Fuse                              | 025-34435-000                                                                    | 025-34435-000         | 025-34435-000         | 025-34435-000         | 025-34435-000              | 025-34435-000         | 025-34435-000         | 025-34435-000         | 025-34435-000                                          | 025-34435-000         | 025-34435-000         | 025-34435-000         |

|      |                                          |
|------|------------------------------------------|
| SX** | SINGLE POINT TERMINAL BLOCK              |
| SD** | SINGLE POINT NON-FUSED DISCONNECT SWITCH |
| BX** | SINGLE POINT CIRCUIT BREAKER             |

**Service Note:** Locate the PANEL NAMEPLATE label on the upper right hand corner of the power panel (See Figure 10 on page 21), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (See example on Page 4) then compare to table at left for power configuration options.

See Figures 11 and 12 starting on page 24

**\*NOTE:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system Quantech units.

**TABLE 13 - CONTROL AND POWER PANEL COMPONENTS (CONT'D)**

| Item | Qty | Description                       | QCC2070C-17 & QCC2070C-28 |                       |                       | QCC2070C-40 & QCC2070C-46 |                       |                       | QCC2070C-50 & QCC2070C-58 |                       |                       |
|------|-----|-----------------------------------|---------------------------|-----------------------|-----------------------|---------------------------|-----------------------|-----------------------|---------------------------|-----------------------|-----------------------|
|      |     |                                   | 371-05163-103<br>SX**     | 371-05163-203<br>SD** | 371-05163-303<br>BX** | 371-05163-104<br>SX**     | 371-05163-204<br>SD** | 371-05163-304<br>BX** | 371-05163-104<br>SX**     | 371-05163-204<br>SD** | 371-05163-304<br>BX** |
| 2    | 1   | Control Transformer               | 025-27911-000             | 025-27911-000         | 025-27911-000         | 025-27911-000             | 025-27911-000         | 025-27911-000         | 025-27911-000             | 025-27911-000         | 025-27911-000         |
| 2A   | 1   | Single Point Terminal Block       | 025-39410-000             | N/A                   | N/A                   | 025-39386-000             | N/A                   | N/A                   | 025-39386-000             | N/A                   | N/A                   |
|      | 1   | Single Point Circuit Breaker      | N/A                       | N/A                   | 025-34424-000         | N/A                       | N/A                   | 025-34419-000         | N/A                       | N/A                   | 025-34419-000         |
|      | 1   | Single Point NF Disconnect Switch | N/A                       | 024-30964-000         | N/A                   | N/A                       | 024-30963-000         | N/A                   | N/A                       | 024-30963-000         | N/A                   |
|      | 1   | Lugs                              | N/A                       | 025-34481-000         | 025-34481-000         | N/A                       | 025-34418-000         | 025-34418-000         | N/A                       | 025-34418-000         | 025-34418-000         |
| 2C   | 1   | Ground Lug                        | 025-34089-000             | 025-34089-000         | 025-34089-000         | 025-34089-000             | 025-34089-000         | 025-34089-000         | 025-34089-000             | 025-34089-000         | 025-34089-000         |
| 3A   | 1   | Control Board                     | 031-02550-000*            | 031-02550-000*        | 031-02550-000*        | 031-02550-000*            | 031-02550-000*        | 031-02550-000*        | 031-02550-000*            | 031-02550-000*        | 031-02550-000*        |
| 3B   | 1   | Flash Card                        | 031-02755-001             | 031-02755-001         | 031-02755-001         | 031-02755-001             | 031-02755-001         | 031-02755-001         | 031-02755-001             | 031-02755-001         | 031-02755-001         |
| 4A   | 4   | Compressor Contactor              | 024-35473-000             | 024-35473-000         | 024-35473-000         | 024-35467-000             | 024-35467-000         | 024-35467-000         | 024-35467-000             | 024-35467-000         | 024-35467-000         |
| 4B   | 4   | Surge Suppressor                  | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         |
| 4D   | 4   | Auxiliary Contact                 | 024-35493-000             | N/A                   | N/A                   | N/A                       | N/A                   | N/A                   | N/A                       | N/A                   | N/A                   |
| 5    | 2   | Control Relay                     | 024-35526-000             | 024-35526-000         | 024-35526-000         | 024-35526-000             | 024-35526-000         | 024-35526-000         | 024-35526-000             | 024-35526-000         | 024-35526-000         |
| 5A   | 2   | Surge Suppressor                  | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         |
| 6B   | 1   | Display                           | 031-02749-000             | 031-02749-000         | 031-02749-000         | 031-02749-000             | 031-02749-000         | 031-02749-000         | 031-02749-000             | 031-02749-000         | 031-02749-000         |
| 6D   | 1   | Switch                            | 024-25517-000             | 024-25517-000         | 024-25517-000         | 024-25517-000             | 024-25517-000         | 024-25517-000         | 024-25517-000             | 024-25517-000         | 024-25517-000         |
| 6F   | 1   | Ribbon Cable                      | 031-02108-000             | 031-02108-000         | 031-02108-000         | 031-02108-000             | 031-02108-000         | 031-02108-000         | 031-02108-000             | 031-02108-000         | 031-02108-000         |
| 7C   | 4   | Fan Contactor                     | 024-35444-000             | 024-35444-000         | 024-35444-000         | 024-35441-000             | 024-35441-000         | 024-35441-000         | 024-35441-000             | 024-35441-000         | 024-35441-000         |
| 7D   | 4   | Surge Suppressor                  | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         | 031-00808-000             | 031-00808-000         | 031-00808-000         |
| 7E   | 2   | Fuse Block                        | 025-37863-000             | 025-37863-000         | 025-37863-000         | 025-37863-000             | 025-37863-000         | 025-37863-000         | 025-37863-000             | 025-37863-000         | 025-37863-000         |
| 7F   | 6   | Fuse                              | 025-34142-000             | 025-34142-000         | 025-34142-000         | 025-34142-000             | 025-34142-000         | 025-34142-000         | 025-34142-000             | 025-34142-000         | 025-34142-000         |
| 10   | 1   | Ground Bar                        | 025-35685-000             | 025-35685-000         | 025-35685-000         | 025-35685-000             | 025-35685-000         | 025-35685-000         | 025-35685-000             | 025-35685-000         | 025-35685-000         |
| 11   | 1   | Fuse Block                        | 025-37862-000             | 025-37862-000         | 025-37862-000         | 025-37862-000             | 025-37862-000         | 025-37862-000         | 025-37862-000             | 025-37862-000         | 025-37862-000         |
| 11A  | 1   | Fuse                              | 025-34435-000             | 025-34435-000         | 025-34435-000         | 025-34435-000             | 025-34435-000         | 025-34435-000         | 025-34435-000             | 025-34435-000         | 025-34435-000         |

**Service Note:** Locate the PANEL NAMEPLATE label on the upper right hand corner of the power panel (See Figure 10 on page 21), then refer to the appropriate parts list for that number. Or, identify PIN number positions 16 and 17 on unit identification plate (See example on Page 4) then compare to table at left for power configuration options.

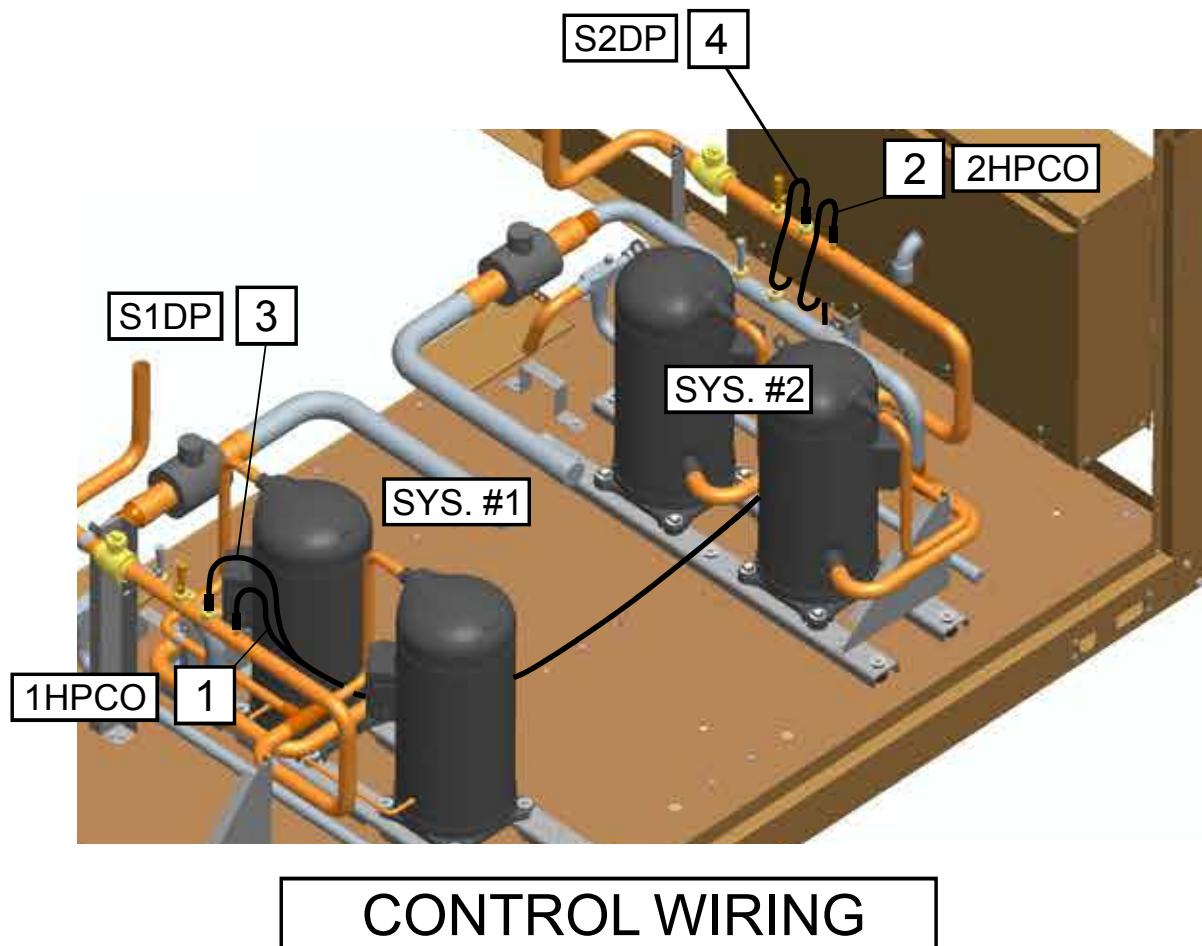
See Figures 11 and 12 starting on page 24

|      |                                          |
|------|------------------------------------------|
| SX** | SINGLE POINT TERMINAL BLOCK              |
| SD** | SINGLE POINT NON-FUSED DISCONNECT SWITCH |
| BX** | SINGLE POINT CIRCUIT BREAKER             |

**\*NOTE:** Replacement Control Board (Item 3A) should be ordered as kit #331-02550-101. (Kit contains assembled 031-02630-001 I/O Board and 031-02550-000 Control Board, as well as a Flash Card. The dual system 031-02550-000 Control Board can be used in both single and dual system Quantech units.



## SECTION 7 - WIRING HARNESSES



Reference Tables 14 and 15 starting on page 31  
67217-100f

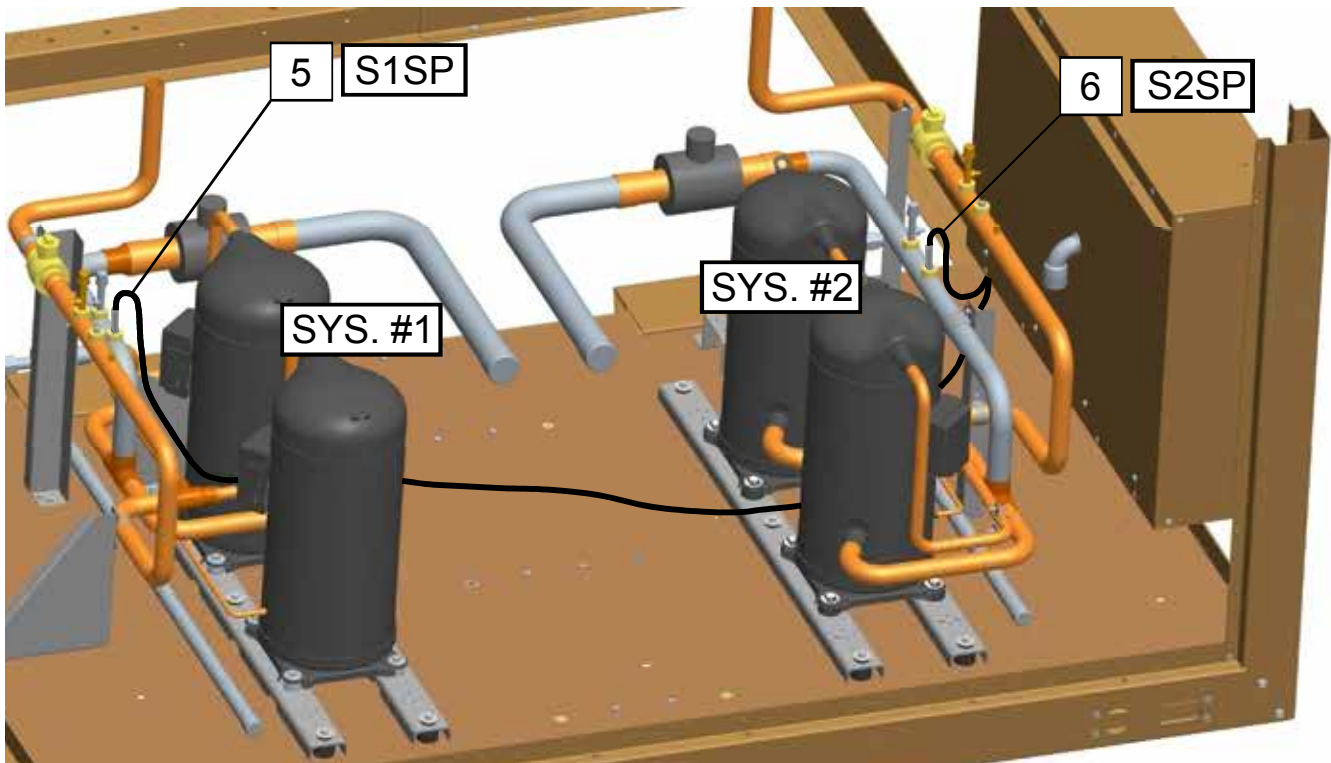
**FIGURE 13 - CONTROL WIRING HARNESSES**

**TABLE 14 - CONTROL AND SENSOR WIRING HARNESSES**

| ITEM | DESCRIPTION                     | SYSTEM | QCC2 | PART NUMBER   |
|------|---------------------------------|--------|------|---------------|
| 1    | HARNESS, HIGH PRESSURE CUT OUT* | #1     | ALL  | 575-57126-240 |
| 2    |                                 | #2     | ALL  | 575-57126-241 |

**Service Note:** High Pressure Cut-Out Harness includes High Pressure Cut-Out Switch 025-41535-000

See Figure 13 on page 31.



SENSOR WIRING

Reference Table 15 on page 32.  
67217-100gg

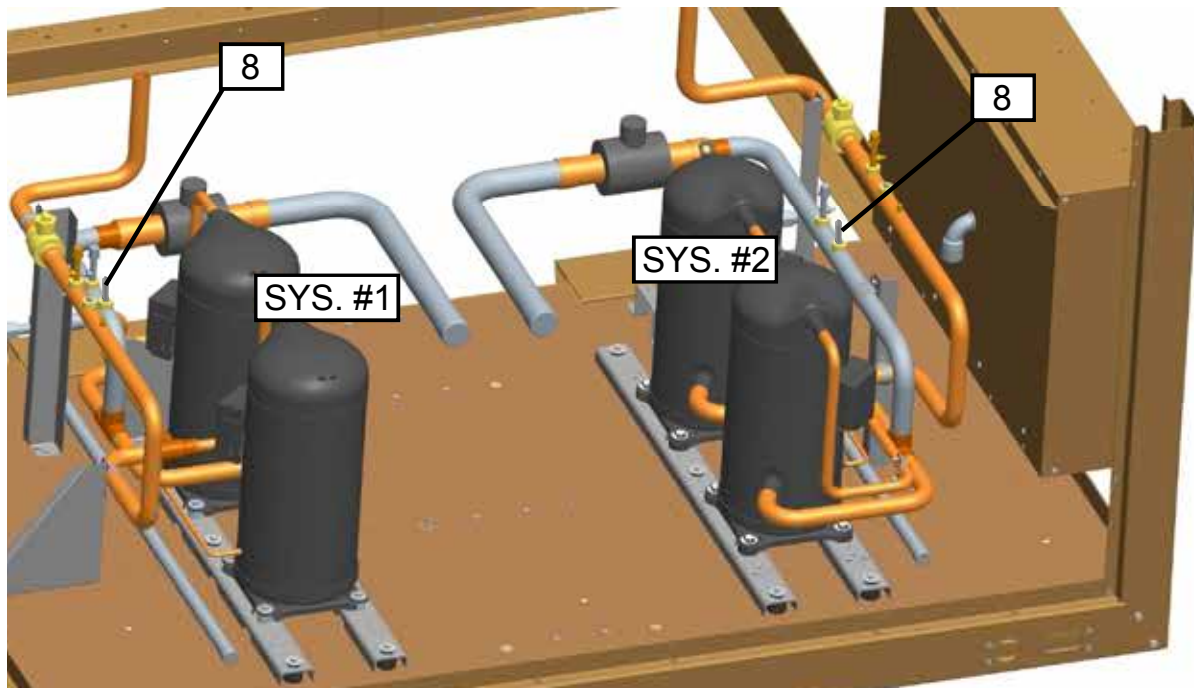
FIGURE 14 - SENSOR WIRING HARNESSSES

TABLE 15 - SENSOR HARNESS WIRING

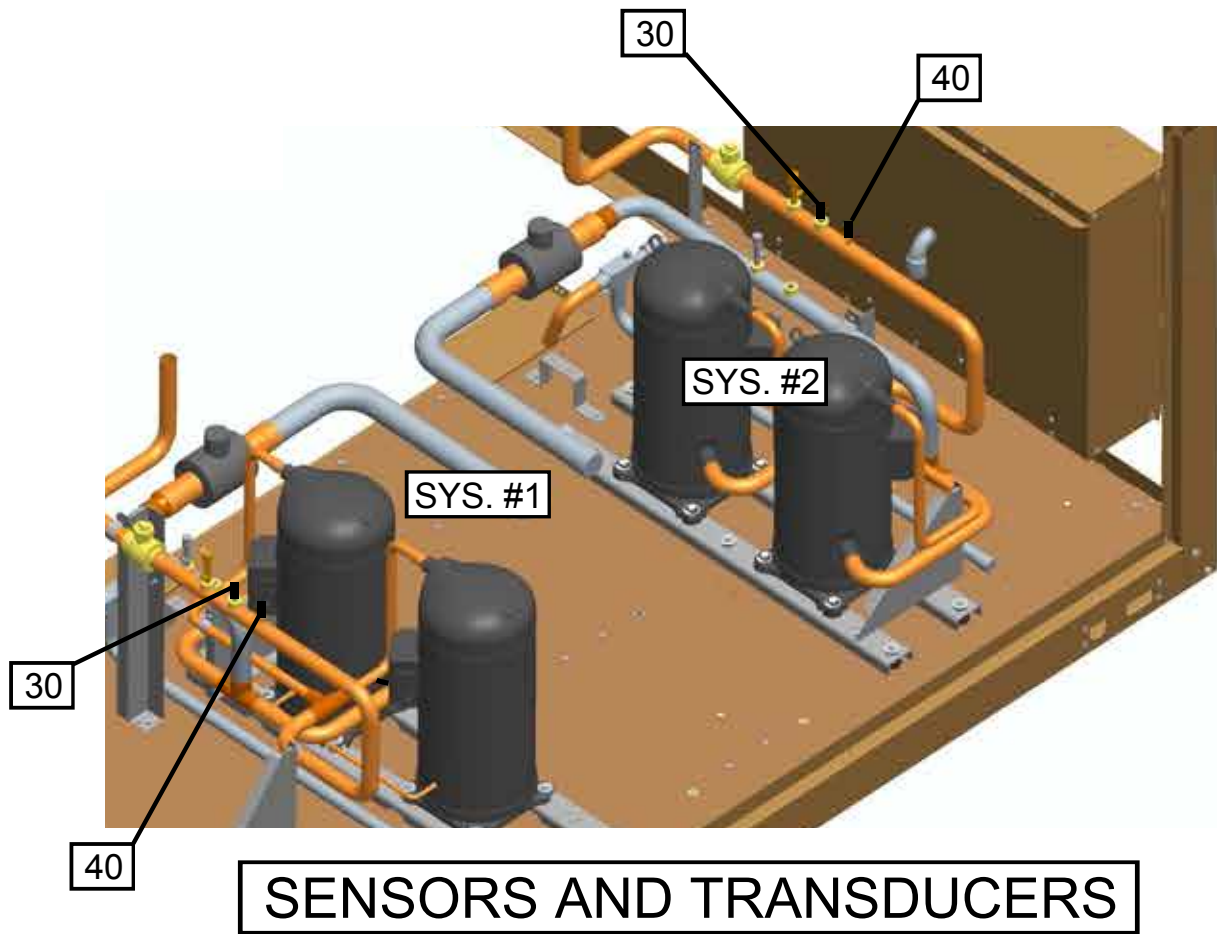
| MICROBOARD WIRING                                                                   |                                                 |              |              |            |          |                                 |                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------|--------------|--------------|------------|----------|---------------------------------|------------------------------|
| PLUG DETAIL                                                                         | PLUG AND PIN P/N                                | PLUG "P" NO. | PLUG PIN NO. | WIRE COLOR | CABLE #  | FUNCTION                        | HARNESS ASSEMBLY PART NUMBER |
|  | Plug = 025-28384-000<br><br>Pin = 025-28386-000 | P7           | 5            | Red        | 5 (S1SP) | System #1<br>Suction Pressure   | 575-57126-310                |
|                                                                                     |                                                 |              | 10           | White      |          |                                 |                              |
|                                                                                     |                                                 |              | 1            | Black      |          |                                 |                              |
|                                                                                     |                                                 |              | 2            | Drain      | 3 (S1DP) | System #1<br>Discharge Pressure | 375-57126-315                |
|                                                                                     |                                                 |              | 7            | Red        |          |                                 |                              |
|                                                                                     |                                                 |              | 12           | White      |          |                                 |                              |
|  | Plug = 025-28384-000<br><br>Pin = 025-28386-000 | P9           | 8            | Black      | 6 (S2SP) | System #2<br>Suction Pressure   | 575-57126-311                |
|                                                                                     |                                                 |              | 9            | Drain      |          |                                 |                              |
|                                                                                     |                                                 |              | 5            | Red        | 4 (S2DP) | System #2<br>Discharge Pressure | 375-57126-316                |
|                                                                                     |                                                 |              | 10           | White      |          |                                 |                              |
|                                                                                     |                                                 |              | 1            | Black      |          |                                 |                              |
|                                                                                     |                                                 |              | 2            | Drain      |          |                                 |                              |

See Figures 13 and 14 starting on page 31.





7



## SENSORS AND TRANSDUCERS

Reference Table 16 on page 34.

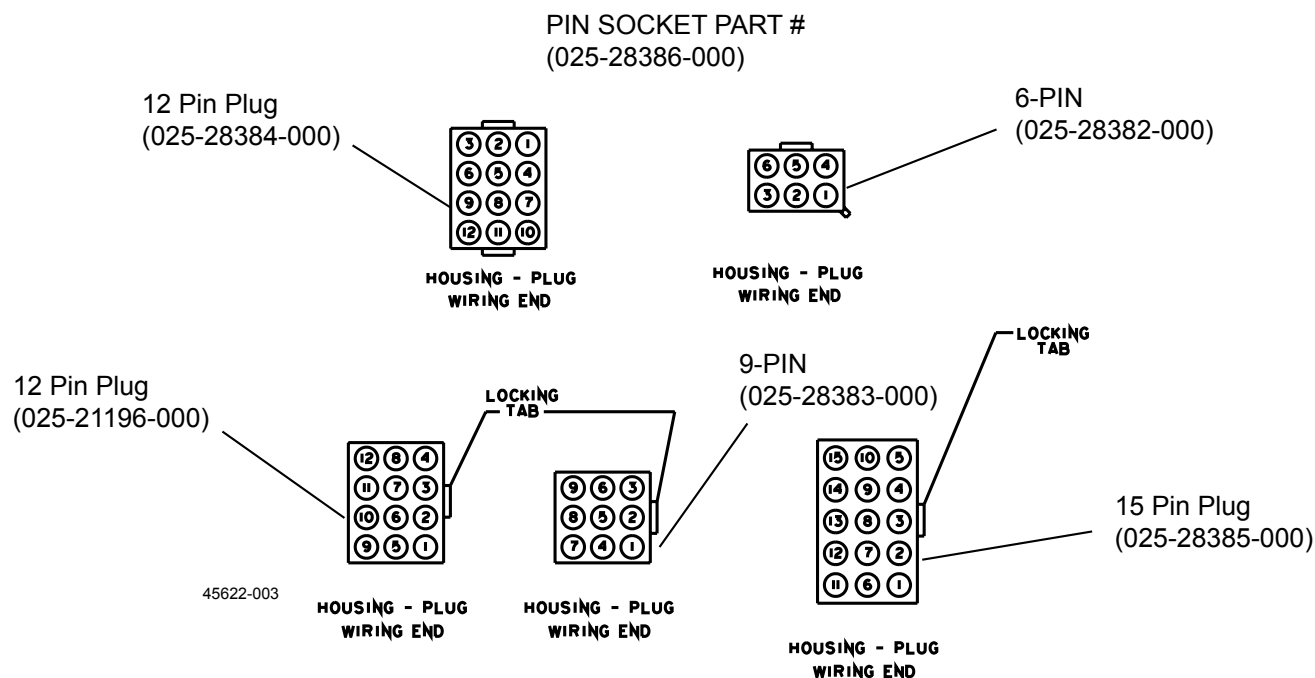
**FIGURE 15 - TEMPERATURE SENSORS AND TRANSDUCERS**

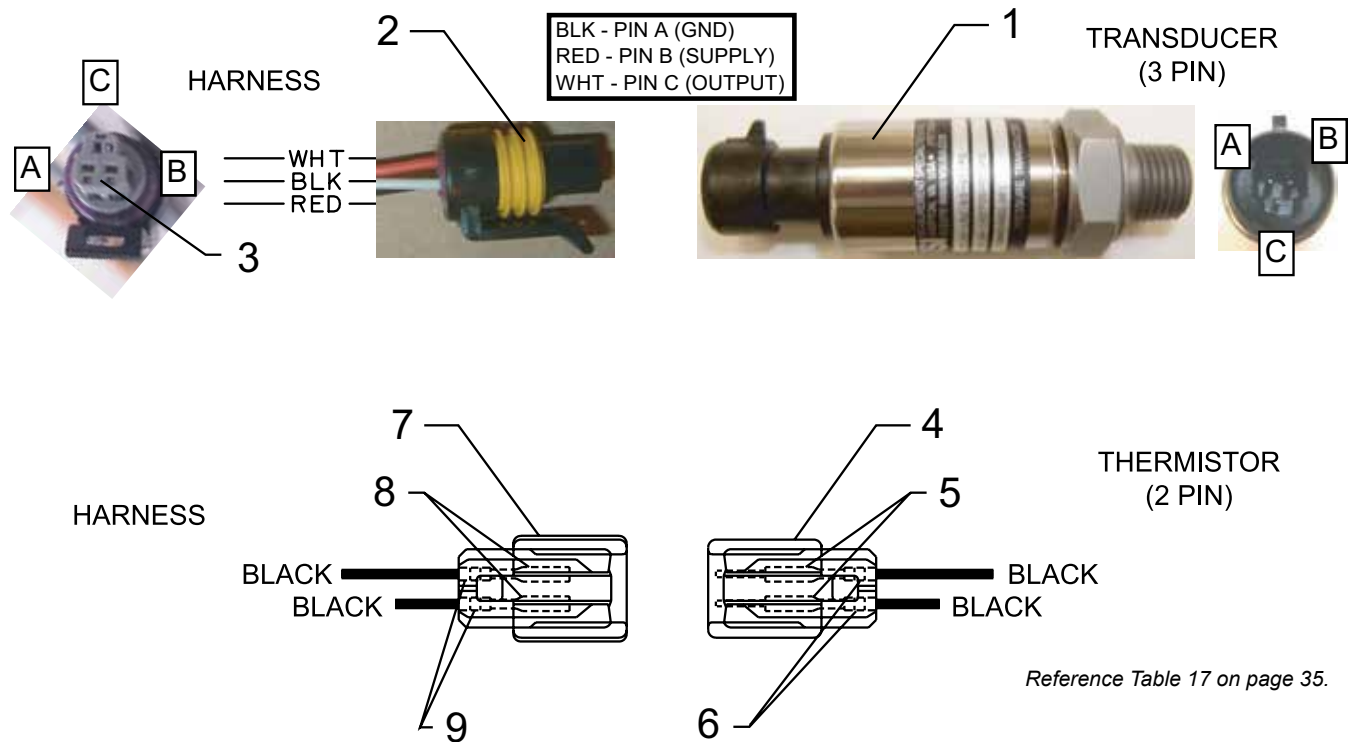
**TABLE 16 - TEMPERATURE SENSORS AND TRANSDUCERS**

| ITEM                  | QTY | DESCRIPTION                                                     | MODELS        | PART NUMBER    |
|-----------------------|-----|-----------------------------------------------------------------|---------------|----------------|
| <b>1<sup>S</sup></b>  | 1   | Sensor, Outside Air Temperature - Not Shown<br>(Cable Included) | QCC2015C-030C | 025-40273-008* |
|                       |     |                                                                 | QCC2040C-045C | 025-40273-006* |
|                       |     |                                                                 | QCC2050C-070C | 025-40273-003* |
| <b>8<sup>S</sup></b>  | 2   | Transducer, Suction Pressure (0-400psi)                         | All           | 025-41756-002  |
| <b>30<sup>S</sup></b> | 2   | Transducer, Discharge Pressure (0-650psi)                       | All           | 025-41756-003  |
| <b>40<sup>S</sup></b> | 2   | Switch, High Pressure Cut-Out (Not Shown)                       | All           | 025-41535-000  |

**S** Recommended Spare Part\* **NOTE:** Sensor only = 025-29964-000.

See Figure 15 on page 33.

**FIGURE 16 - SENSOR HOUSING AND PIN SOCKET PART NUMBERS**



**FIGURE 17 - TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS**

**TABLE 17 - TRANSDUCER AND THERMISTOR WIRE HARNESS CONNECTORS - FIELD REPLACEMENT PART NUMBERS**

| ITEM | LOCATION     | DESCRIPTION    | PINS      | PART NUMBER   |
|------|--------------|----------------|-----------|---------------|
| 1    | Transducer   | Plug Connector | 3 Pin End | 025-28953-000 |
| 2    |              | Contact Pins   |           | 025-28949-000 |
| 3    |              | Rubber Collar  |           | 025-28950-000 |
| 4    | Wire Harness | Plug Connector | 3 Pin End | 025-28954-000 |
| 5    |              | Contact Pins   |           | 025-28952-000 |
| 6    |              | Rubber Collar  |           | 025-28950-000 |
| 7    | Transducer   | Plug Connector | 2 Pin End | 025-28948-000 |
| 8    |              | Contact Pins   |           | 025-28949-000 |
| 9    |              | Rubber Collar  |           | 025-28950-000 |
| 10   | Wire Harness | Plug Connector | 2 Pin End | 025-28951-000 |
| 11   |              | Contact Pins   |           | 025-28952-000 |
| 12   |              | Rubber Collar  |           | 025-28950-000 |

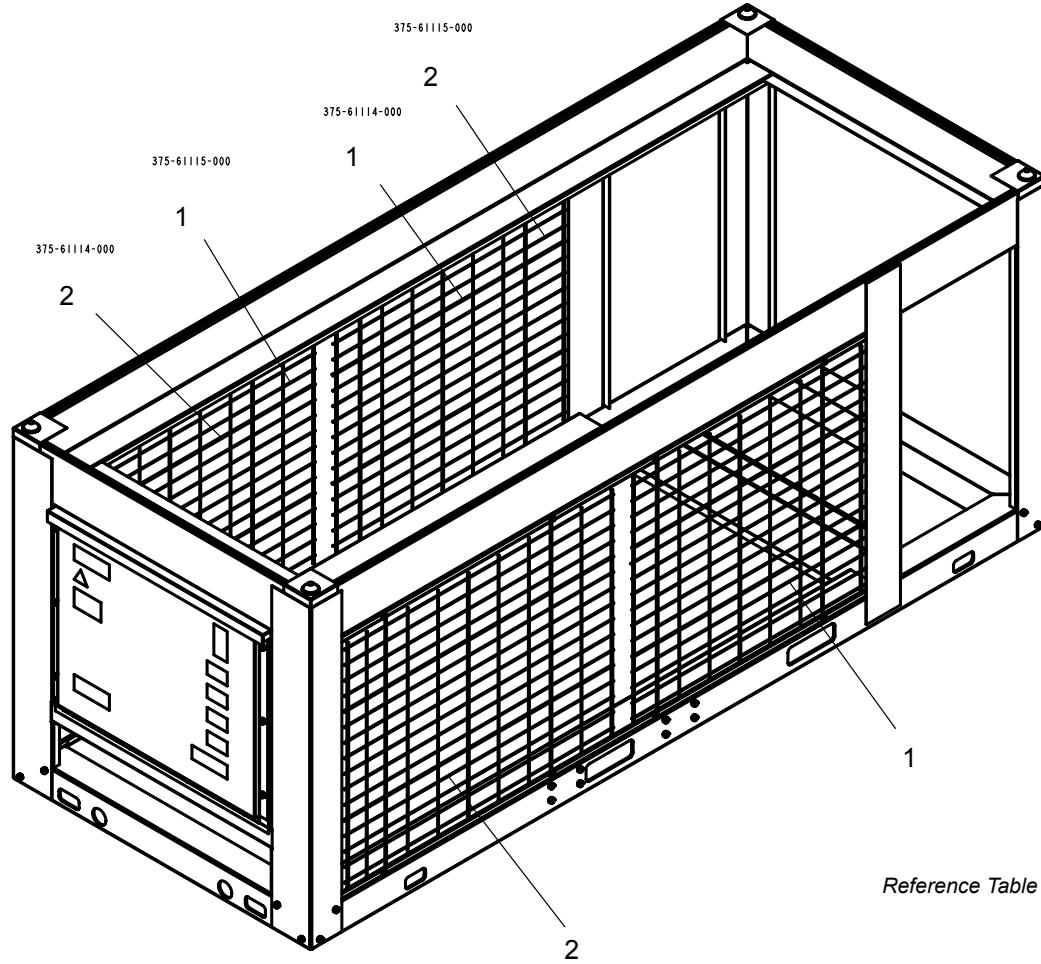
See Figure 17 on page 35.

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## SECTION 8 - ENCLOSURES

**TABLE 18 - ENCLOSURE KIT OPTIONS**

| MODEL NUMBER | WIRE ENCLOSURE<br>(FACTORY INSTALLED) | LOUVERED ENCLOSURE<br>(FIELD INSTALLED) |
|--------------|---------------------------------------|-----------------------------------------|
| QCC2015C     | 375-61114-000                         | 575-65188-000                           |
| QCC2020C     |                                       |                                         |
| QCC2025C     | 375-61115-000                         | 575-65189-000                           |
| QCC2030C     |                                       |                                         |



Reference Table 19 on page 37.

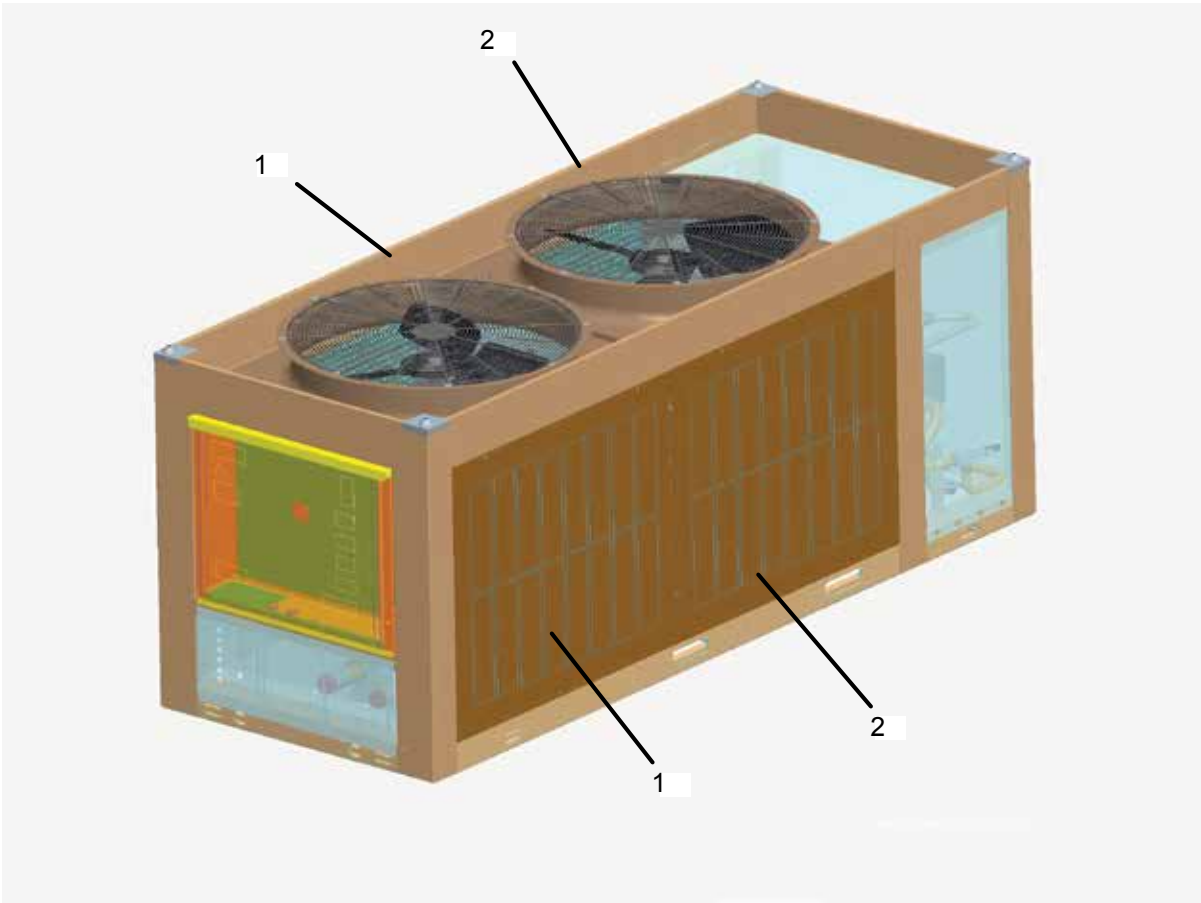
61114-000

**FIGURE 18 - WIRE ENCLOSURE PARTS**

**TABLE 19 - WIRE ENCLOSURE PARTS**

| WIRE ENCLOSURE KIT COMPONENTS |                   |                       |     |                       |     |
|-------------------------------|-------------------|-----------------------|-----|-----------------------|-----|
| ITEM                          | DESCRIPTION       | QCC2015C and QCC2020C |     | QCC2025C and QCC2030C |     |
|                               |                   | 375-61114-000         | QTY | 375-61115-000         | QTY |
| 1                             | WIRE PANEL, SIDES | 026-41826-010         | 2   | 026-41826-009         | 2   |
| 2                             | WIRE PANEL, REAR  | 026-41826-011         | 2   | 026-41826-008         | 2   |

See Figure 18 on page 37.



Reference Table 20 on page 38.  
60803-001

FIGURE 19 - LOUVERED ENCLOSURE PARTS

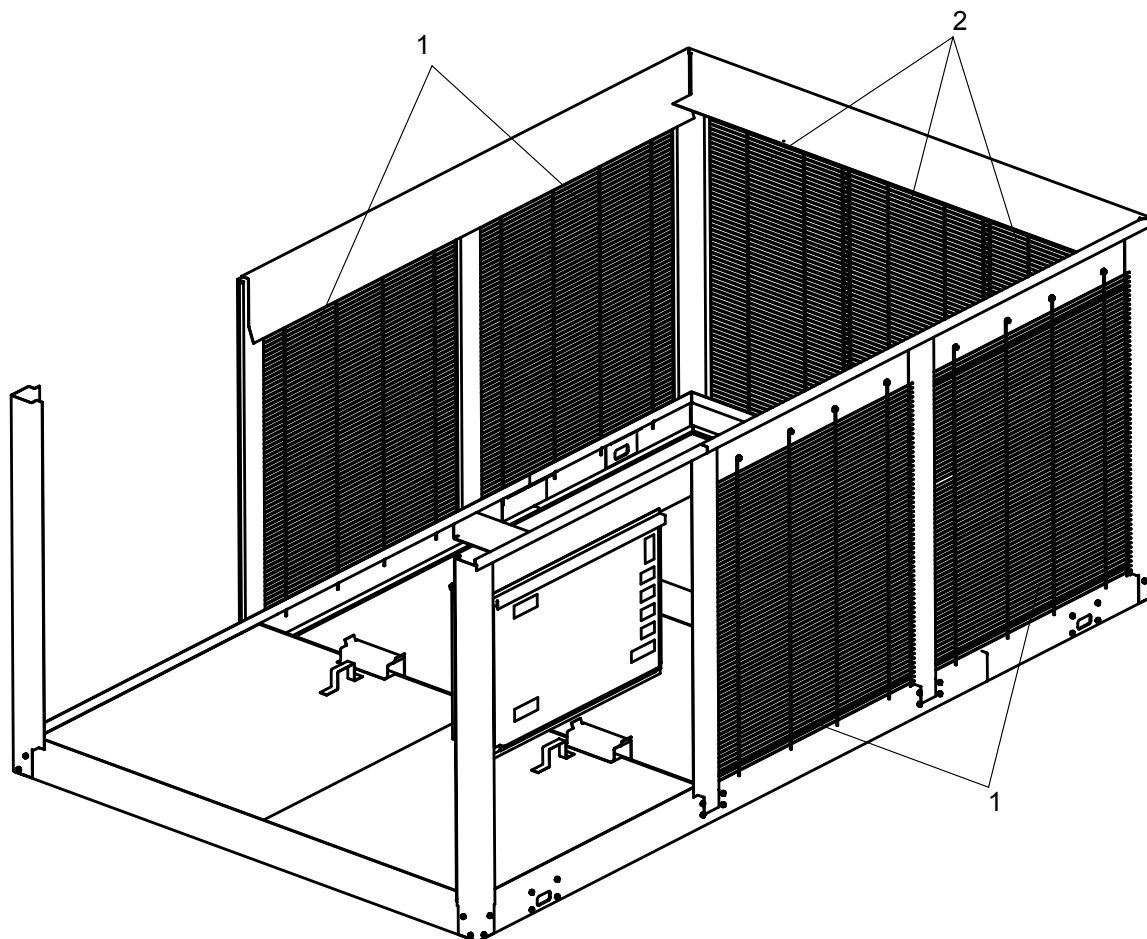
TABLE 20 - LOUVERED ENCLOSURE PARTS

| LOUVERED ENCLOSURE KIT COMPONENTS |                |                       |     |                       |     |
|-----------------------------------|----------------|-----------------------|-----|-----------------------|-----|
| ITEM                              | DESCRIPTION    | QCC2015C AND QCC2020C |     | QCC2025C AND QCC2030C |     |
|                                   |                | 575-65188-000         | QTY | 575-65189-000         | QTY |
| 1                                 | Louvered Panel | 075-60803-009         | 2   | 075-60803-010         | 2   |
| 2                                 | Louvered Panel | 075-60803-008         | 2   | 075-60803-011         | 2   |

See Figure 19 on page 38.

**TABLE 21 - ENCLOSURE KIT OPTIONS**

| MODEL NUMBER | WIRE ENCLOSURE<br>(FACTORY INSTALLED) | LOUVERED ENCLOSURE<br>(FIELD INSTALLED) |
|--------------|---------------------------------------|-----------------------------------------|
| QCC2040C     | 375-59527-000                         | 575-59445-000                           |
| QCC2045C     |                                       |                                         |
| QCC2050C     | 375-59526-000                         | 575-59444-000                           |
| QCC2060C     |                                       |                                         |
| QCC2070C     | 375-59525-000                         | 575-59443-000                           |



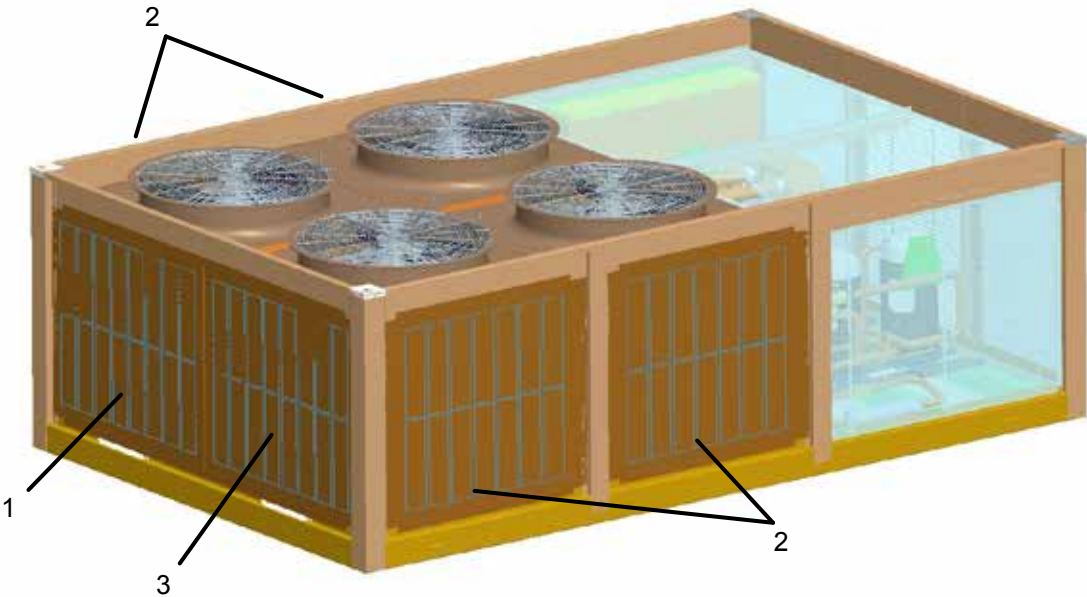
59525-000

**FIGURE 20 - WIRE ENCLOSURE PARTS**

**TABLE 22 - WIRE ENCLOSURE PARTS**

| WIRE ENCLOSURE KIT COMPONENTS |                   |                       |     |                       |     |               |     |
|-------------------------------|-------------------|-----------------------|-----|-----------------------|-----|---------------|-----|
| ITEM                          | DESCRIPTION       | QCC2040C and QCC2045C |     | QCC2050C and QCC2060C |     | QCC2070C      |     |
|                               |                   | 375-59527-000         | QTY | 375-59526-000         | QTY | 375-59525-000 | QTY |
| 1                             | Wire Panel, Sides | 026-41826-005         | 4   | 026-41826-003         | 4   | 026-41826-001 | 4   |
| 2                             | Wire Panel, Rear  | 026-41826-004         | 3   | 026-41826-002         | 3   | 026-41826-002 | 3   |

See Table 20 on page 38.



Reference Table 23 on page 40.

60803-000

FIGURE 21 - LOUVERED ENCLOSURE PARTS

TABLE 23 - LOUVERED ENCLOSURE PARTS

| LOUVERED ENCLOSURE KIT COMPONENTS |                |                       |     |                       |     |               |     |
|-----------------------------------|----------------|-----------------------|-----|-----------------------|-----|---------------|-----|
| ITEM                              | DESCRIPTION    | QCC2040C and QCC2045C |     | QCC2050C and QCC2060C |     | QCC2070C      |     |
|                                   |                | 575-59445-000         | QTY | 575-59444-000         | QTY | 575-59443-000 | QTY |
| 1                                 | Louvered Panel | 075-60803-012         | 1   | 075-60803-005         | 1   | 075-60803-005 | 1   |
| 2                                 | Louvered Panel | 075-60803-002         | 4   | 075-60803-004         | 4   | 075-60803-007 | 4   |
| 3                                 | Louvered Panel | 075-60803-003         | 1   | 075-60803-006         | 1   | 075-60803-006 | 1   |

See Table 21 on page 39.



## SECTION 9 - CHILLER OPTIONS

**TABLE 24 - VIBRATION ISOLATORS PART NUMBERS**

| ONE INCH DEFLECTION SPRING ISOLATOR CROSS REFERENCE          |                       |                       |                      |               |
|--------------------------------------------------------------|-----------------------|-----------------------|----------------------|---------------|
| WEIGHT RANGE<br>(lbs.)                                       | WEIGHT RANGE<br>(kg.) | VENDOR PART<br>NUMBER | COLOR                | PART NUMBER   |
| Up to 435 lbs.                                               | Up to 197 kg.         | CP-1D-510             | BLACK                | 029-25334-002 |
| 435 to 766 lbs.                                              | 197 to 348 kg.        | CP-1D-900             | DARK GREEN           | 029-25334-003 |
| 766 to 1021 lbs.                                             | 348 to 463 kg.        | CP-1D-1200            | GRAY                 | 029-25334-004 |
| 1021 to 1157 lbs.                                            | 463 to 525 kg.        | CP-1D-1360            | WHITE                | 029-25334-005 |
| 1157 to 1785 lbs.                                            | 525 to 810 kg.        | CP-1D-1785N           | GRAY/RED             | 029-25334-006 |
| WEIGHT RANGE<br>(lbs.)                                       | WEIGHT RANGE<br>(kg.) | VENDOR PART<br>NUMBER | COLOR                | PART NUMBER   |
| Up to 1149 lbs.                                              | Up to 521 kg.         | C2P-1D-1350           | DARK PURPLE          | 029-25334-008 |
| 1149 to 1531 lbs.                                            | 521 to 694 kg.        | C2P-1D-1800           | DARK GREEN           | 029-25334-009 |
| 1531 to 2041 lbs.                                            | 694 to 926 kg.        | C2P-1D-2400           | GRAY                 | 029-25334-010 |
| 2041 to 2313 lbs.                                            | 926 to 1049 kg.       | C2P-1D-1020           | GOLD                 | 029-25334-012 |
| 2313 to 3570 lbs.                                            | 1049 to 1619 kg.      | C2P-1D-3570N          | GRAY/RED             | 029-25334-013 |
| NEOPRENE ISOLATOR CROSS REFERENCE                            |                       |                       |                      |               |
| WEIGHT RANGE<br>(lbs.)                                       | WEIGHT RANGE<br>(kg.) | VENDOR PART<br>NUMBER | COLOR                | PART NUMBER   |
| Up to 826 lbs.                                               | Up to 375 kg.         | RD-3-WR               | CHARCOAL             | 029-25335-001 |
| 826 to 1689 lbs.                                             | 375 to 766 kg.        | RD-4-WR               | BRICK RED            | 029-25335-002 |
| 1689 to 4000 lbs.                                            | 766 to 1814 kg.       | RD-4-WR               | CHARCOAL             | 029-25335-004 |
| TWO INCH DEFLECTION, SEISMIC SPRING ISOLATOR CROSS REFERENCE |                       |                       |                      |               |
| WEIGHT RANGE<br>(lbs.)                                       | WEIGHT RANGE<br>(kg.) | VENDOR PART<br>NUMBER | COLOR                | PART NUMBER   |
| Up to 392 lbs.                                               | Up to 177 kg.         | Y2RSI-2D-460          | GREEN                | 029-25336-006 |
| 392 to 605 lbs.                                              | 177 to 274 kg.        | Y2RSI-2D-710          | DARK BROWN           | 029-25336-008 |
| 605 to 741 lbs.                                              | 274 to 336 kg.        | Y2RSI-2D-870          | RED                  | 029-25336-009 |
| 741 to 1021 lbs.                                             | 336 to 463 kg.        | Y2RSI-2D-1200N        | RED/BLACK            | 029-25336-010 |
| 1021 to 1438 lbs.                                            | 463 to 652 kg.        | Y2RSI-2D-1690         | PINK                 | 029-25336-011 |
| 1438 to 2245 lbs.                                            | 652 to 1018 kg.       | Y2RSI-2D-2640N        | PINK/GRAY            | 029-25336-012 |
| 2245 to 2619 lbs.                                            | 1018 to 1188 kg.      | Y2RSI-2D-2870N        | PINK/GRAY/ORANGE     | 029-25336-013 |
| 2619 to 3740 lbs.                                            | 1188 to 1696 kg.      | Y2RSI-2D-3280N        | PINK/GRAY/DARK BROWN | 029-25336-014 |

**TABLE 25 - FIELD INSTALLED OPTIONS KIT NUMBERS**

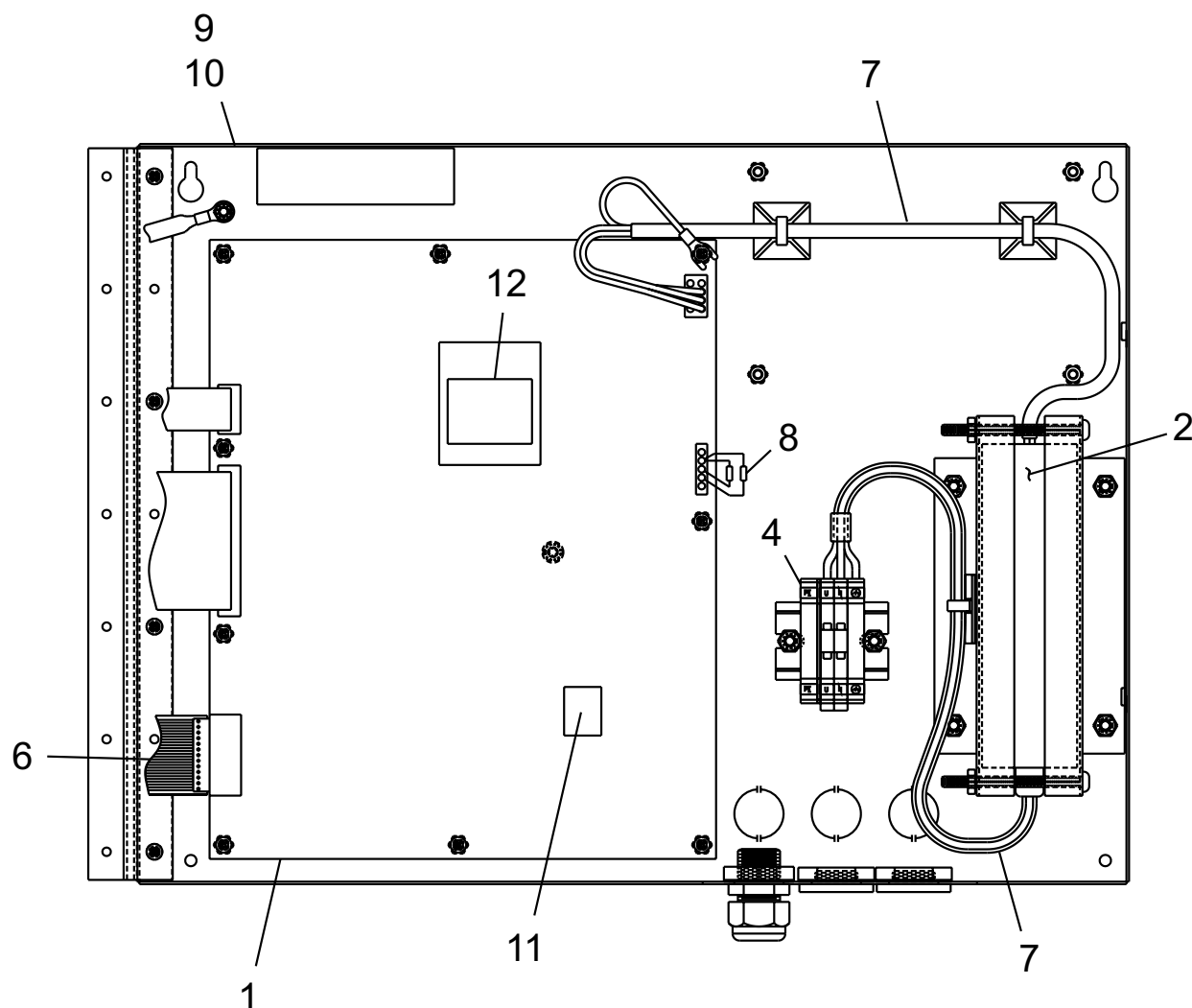
| MODEL QCC2 | HOT GAS BY-PASS SOLENOID VALVE W/ HARNESS (1 CIRCUIT) | HOT GAS BY-PASS SOLENOID VALVE W/HARNESS (2 CIRCUITS) | BAS/EMS TEMPER-<br>ATURE<br>RESET / OFFSET | MICRO GATEWAY | CHICAGO CODE RELIEF VALVE | MOTOR CURRENT MODULE KIT | DEHYDRATOR KIT | SEQUENCE CONTROL AND AUTOMATIC LEAD TRANSFER KIT | OPTIVIEW REMOTE CONTROL PANEL | SOUND BLANKET KIT |      |
|------------|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|---------------|---------------------------|--------------------------|----------------|--------------------------------------------------|-------------------------------|-------------------|------|
|            | 375-                                                  | 375-                                                  | 375-30914                                  | 371-04455     | 022-10682                 | 371-04101                | 475-89391      | 371-02558                                        | 371-02750                     | 310-06507         |      |
| 015C       | 84599-700                                             | N/A                                                   | -000                                       | -010          | -001                      | -001                     | -001           | -008 (60Hz)<br>-009 (50Hz)                       | -101                          | -717              |      |
| 020C       |                                                       |                                                       |                                            |               |                           |                          | -002           |                                                  |                               | -736              |      |
| 025C       |                                                       |                                                       |                                            |               |                           |                          |                |                                                  |                               | -720              |      |
| 030C       | 84599-500                                             |                                                       |                                            |               |                           | -000                     | -003           |                                                  |                               |                   | -710 |
| 040C       | 84766-800                                             | 84766-820                                             |                                            |               |                           |                          |                |                                                  |                               |                   |      |
| 045C       | 84766-600                                             | 84766-620                                             |                                            |               |                           |                          |                |                                                  |                               |                   |      |
| 050C       | 84766-700                                             |                                                       |                                            |               |                           |                          |                |                                                  |                               | -723              |      |
| 060C       | 84766-500                                             |                                                       |                                            |               |                           |                          |                |                                                  |                               | 84766-520         | -714 |

\*NOTE: Hot Gas By-Pass Solenoid Valve Only: 025-40962-001

**TABLE 26 - CONTROL TRANSFORMER KIT**

| MODEL QCC2                                             | VOLTAGE | CONTROL TRANSFORMER KIT<br>PART NUMBER | LOW AMBIENT KIT**<br>PART NUMBER |
|--------------------------------------------------------|---------|----------------------------------------|----------------------------------|
| <b>QCC2015C and<br/>QCC2020C</b>                       | -17     | 375-65193-101                          | 375-61086-101                    |
|                                                        | -28     | 375-65193-102                          | 375-61086-101                    |
|                                                        | -40     | 375-65193-103                          | 375-61086-101                    |
|                                                        | -46     | 375-65193-104                          | 375-61086-101                    |
|                                                        | -50     | 375-65193-105                          | 375-61086-103                    |
|                                                        | -58     | 375-65193-106                          | 375-61086-102                    |
| <b>QCC2025C and<br/>QCC2030C</b>                       | -17     | 375-59641-101                          | 375-72207-111                    |
|                                                        | -28     | 375-65193-102                          | 375-72207-111                    |
|                                                        | -40     | 375-65193-103                          | 375-72207-113                    |
|                                                        | -46     | 375-65193-104                          | 375-72207-112                    |
|                                                        | -50     | 375-65193-105                          | 375-72207-112                    |
|                                                        | -58     | 375-65193-106                          | 375-72207-114                    |
| <b>QCC2040C, 045C,<br/>050C, 060C and<br/>QCC2070C</b> | -17     | 375-59641-101                          | 375-72208-101                    |
|                                                        | -28     | 375-59641-102                          | 375-72208-101                    |
|                                                        | -40     | 375-59641-103                          | 375-72208-103                    |
|                                                        | -46     | 375-59641-104                          | 375-72208-102                    |
|                                                        | -50     | 375-59641-105                          | 375-72208-102                    |
|                                                        | -58     | 375-59641-106                          | 375-72208-104                    |

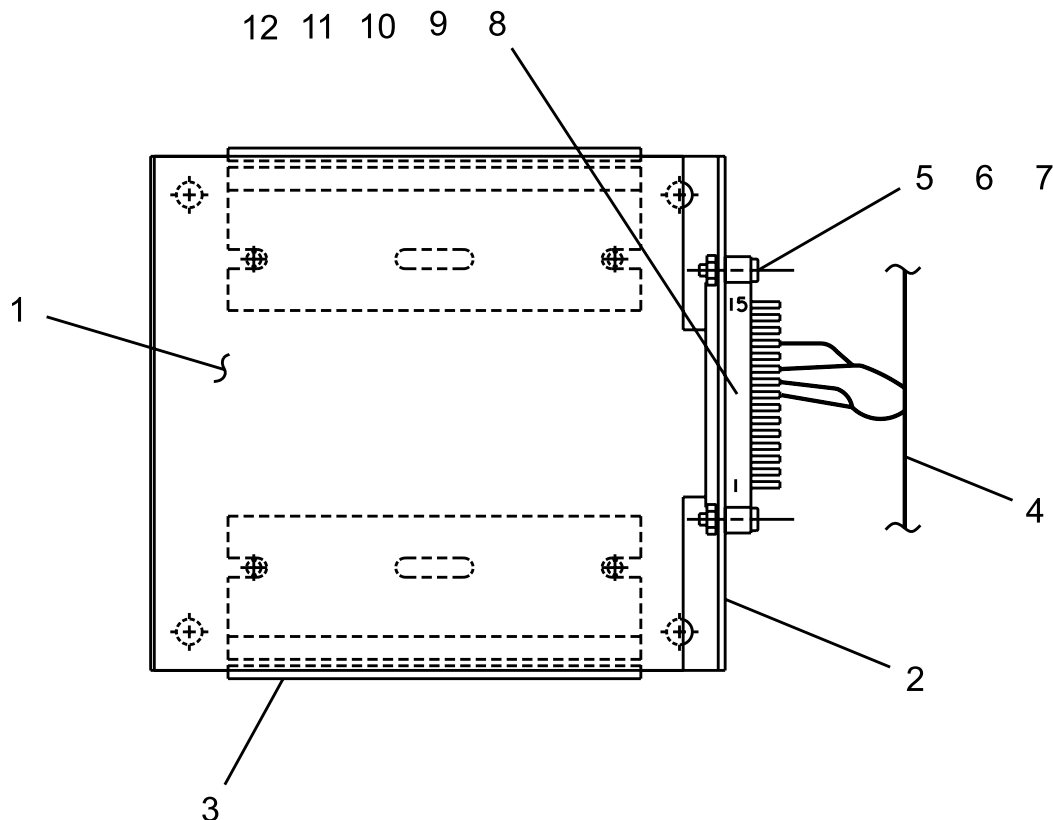
**\*\*NOTE:** Low Ambient Kit VFD Only:  
208 Volt = 024-35393-002  
460 Volt = 024-35393-001



02750-3A

**FIGURE 22 - OPTIVIEW REMOTE CONTROL CENTER PARTS****TABLE 27 - OPTIVIEW REMOTE CONTROL CENTER PARTS**

| 371-02750-101 |          |                                 |               |
|---------------|----------|---------------------------------|---------------|
| ITEM          | QUANTITY | DESCRIPTION                     | PART NUMBER   |
| 1             | 1        | Microprocessor Board            | 031-01730-002 |
| 2             | 1        | Power Supply Assembly           | 371-02750-411 |
| 3             | 1        | Keypad (Not Shown)              | 024-30974-001 |
| 4             | 1        | Terminal Block                  | 025-35120-000 |
| 5             | 1        | Display (Not Shown)             | 331-02053-000 |
| 6             | 1        | Ribbon Cable                    | 031-02056-000 |
| 7             | 1        | Wire Cable                      | 571-02750-421 |
| 8             | 8        | Lan Transient Protection Module | 031-01586-000 |
| 9             | 1        | Cover, Remote Control           | 371-02750-311 |
| 10            | 1        | Base, Remote Control            | 071-02485-320 |
| 11            | 1        | Eprom                           | 031-01796-002 |
| 12            | 1        | Flash Memory Card               | 031-02057-001 |



LD05256

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**FIGURE 23 - REMOTE TEMPERATURE RESET KIT COMPONENTS**

**TABLE 28 - REMOTE TEMPERATURE RESET KIT COMPONENTS**

| 375-90914-000 |          |                                            |                |
|---------------|----------|--------------------------------------------|----------------|
| ITEM          | QUANTITY | DESCRIPTION                                | PART NUMBER    |
| 1             | 1        | Control, Remote Current/Temperature        | 031-00814-000  |
| 2             | 1        | Bracket, Remote Current/ Temperature Reset | 371-01232-361  |
| 3             | 1        | Track, Snap                                | 071-01232-363  |
| 4             | 1        | Wiring, Remote Current/ Temperature Reset  | 571-02492-231* |
| 5             | 2        | Screw, Machine Pan Head #4                 | 021-17594-000  |
| 6             | 2        | Nut, Hex #4 - 40 Unc-2B                    | 021-10065-000  |
| 7             | 2        | Lockwasher, Helical Spring #4 Regular      | 021-17576-000  |

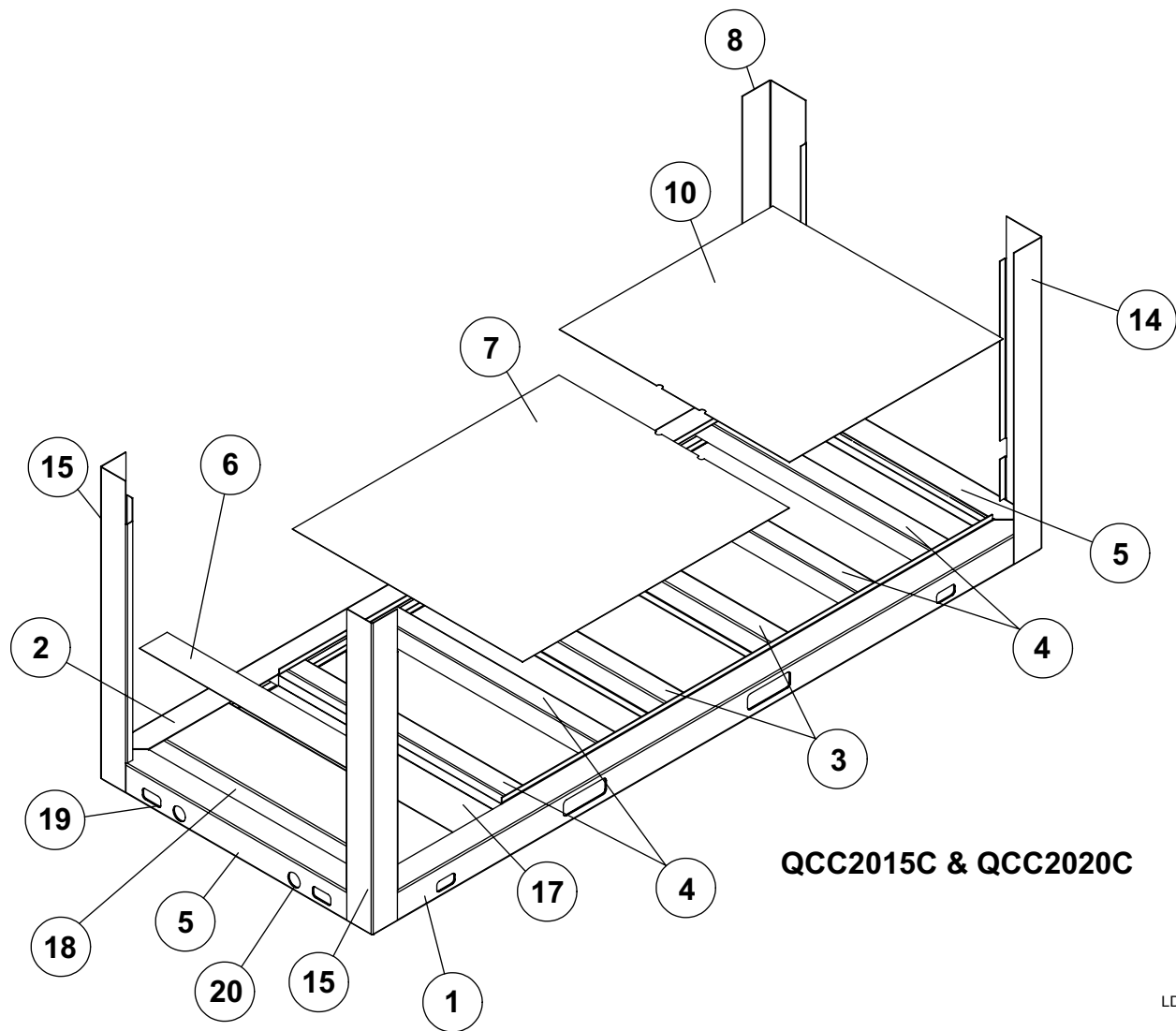
\*Refer to Table 29

**TABLE 29 - REMOTE RESET WIRING**

| ITEM | QUANTITY | DESCRIPTION                        | PART NUMBER    |
|------|----------|------------------------------------|----------------|
| 8    | 2        | Cont Soc Awg Wire Size 20          | 025-19674-000  |
| 9    | 2        | Terminal Push On Straight          | 025-06642-000  |
| 10   | 4        | Tubing Heat Shrinkable 1/8" I.d.   | 025-29632-000  |
| 11   | 1        | Hgs Connector Electrical Plug      | 025-32564-000* |
| 12   | 1        | Connector Edge, 15 Position, 0.125 | 025-17594-000  |

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SECTION 10 - FRAME RAIL COMPONENTS



Refer to Table 30 on page 48.

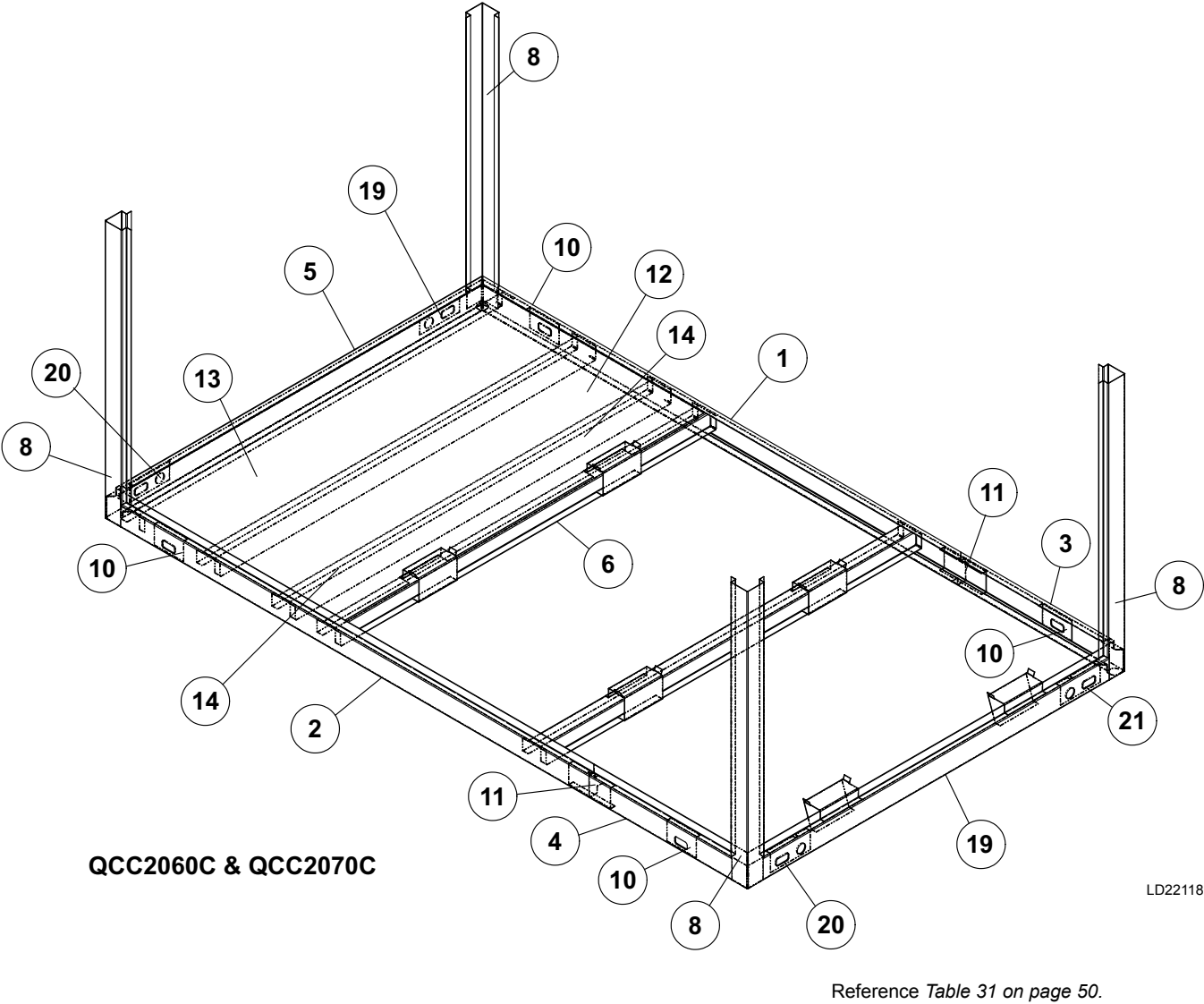
FIGURE 24 - BASE RAIL COMPONENTS

**TABLE 30 - BASE RAIL COMPONENTS**

| ITEM | DESCRIPTION       | MODELS QCC2 | PART NUMBER   | QTY |
|------|-------------------|-------------|---------------|-----|
| 1    | Rail, Base        | 015C, 020C  | 075-61068-002 | 1   |
|      |                   | 025C, 030C  | 075-61068-001 |     |
| 2    | Rail, Base        | 015C, 020C  | 075-61069-002 | 1   |
|      |                   | 025C, 030C  | 075-61068-001 |     |
| 3    | Rail, Crossmember | 015C, 020C  | 075-61072-004 | 2   |
|      |                   | 025C        | 075-61085-039 |     |
|      |                   | 030C        | 075-61072-002 |     |
| 4    | Rail, Crossmember | 015C, 020C  | 075-61072-003 | 4   |
|      |                   | 025C, 030C  | 075-61072-001 |     |
| 5    | Rail, Crossmember | ALL         | 075-61070-001 | 2   |
| 6    | Panel, Floor      | 015C, 020C  | 075-61075-009 | 1   |
|      |                   | 025C        | 075-61085-038 |     |
|      |                   | 030C        | 075-61075-001 |     |
| 7    | Panel, Floor      | 015C, 020C  | 075-61075-005 | 1   |
|      |                   | 025C, 030C  | 075-61075-002 |     |
| 8    | Post, Corner      | 015C, 020C  | 075-61071-005 | 1   |
|      |                   | 025C, 030C  | 075-61071-001 |     |
| 10   | Panel, Floor      | 015C, 020C  | 075-61075-006 | 1   |
|      |                   | 025C, 030C  | 075-61075-003 |     |
| 14   | Post, Corner      | 015C, 020C  | 075-61071-004 | 1   |
|      |                   | 025C, 030C  | 075-61071-002 |     |
| 15   | Post, Corner      | 015C, 020C  | 075-61071-006 | 2   |
|      |                   | 025C, 030C  | 075-61071-003 |     |
| 17   | Panel, Floor      | 015C, 020C  | 075-61075-007 | 1   |
|      |                   | 025C, 030C  | 075-61075-005 |     |
| 18   | Rail, Crossmember | 015C, 020C  | 075-61072-006 | 1   |
|      | Panel, Floor      | 025C, 030C  | 075-61075-008 |     |
| 19   | Plate, Lifting    | ALL         | 075-62426-005 | 2   |
| 20   | Plate, Lifting    | ALL         | 075-62426-006 | 2   |

See Figure 24 on page 47.



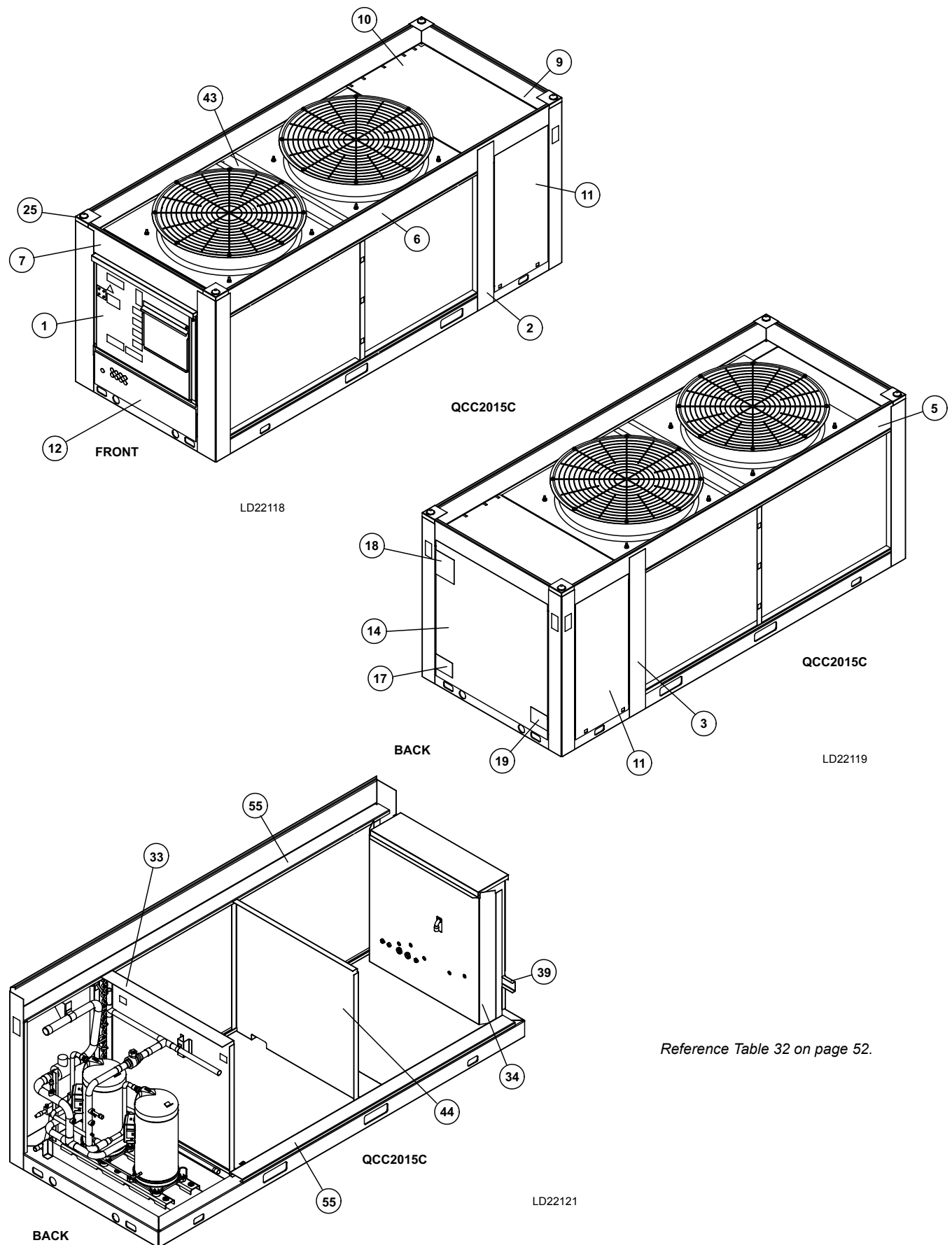


**FIGURE 25 - BASE RAIL COMPONENTS**

**TABLE 31 - BASE RAIL COMPONENTS**

| ITEM | DESCRIPTION       | MODELS QCC2            | PART NUMBER   | QTY |
|------|-------------------|------------------------|---------------|-----|
| 1    | Rail, Base        | 040C, 045C, 050C, 060C | 075-58264-004 | 1   |
|      |                   | 070C                   | 075-58264-001 |     |
| 2    | Rail, Base        | 040C, 045C, 050C, 060C | 075-58263-004 | 1   |
|      |                   | 070C                   | 075-58263-001 |     |
| 3    | Rail, Base        | 040C, 045C, 050C, 060C | 075-58264-003 | 1   |
|      |                   | 070C                   | 075-58264-002 |     |
| 4    | Rail, Base        | 040C, 045C, 050C, 060C | 075-58263-003 | 1   |
|      |                   | 070C                   | 075-58263-002 |     |
| 5    | Rail, Crossmember | ALL                    | 075-58265-001 | 1   |
| 6    | Rail, Crossmember | 040C, 045C             | 075-58267-001 | 5   |
|      |                   | 050C, 060C             | 075-61085-040 |     |
|      |                   | 070C                   | 075-58267-001 |     |
| 8    | Post, Corner      | 040C, 045C             | 075-58259-002 | 4   |
|      |                   | 050C, 060C, 070C       | 075-58259-001 |     |
| 10   | Plate, Lifting    | ALL                    | 075-58288-001 | 4   |
| 11   | Plate, Splice     | ALL                    | 075-58291-001 | 2   |
| 12   | Panel, Floor      | 040C, 045C             | 075-58268-004 | 1   |
|      |                   | 050C                   | 075-58268-016 |     |
|      |                   | 060C                   | 075-58268-019 |     |
|      |                   | 070C                   | 075-58268-002 |     |
| 13   | Panel, Floor      | 040C, 045C             | 075-58268-003 | 1   |
|      |                   | 050C                   | 075-58268-017 |     |
|      |                   | 060C                   | 075-58268-018 |     |
|      |                   | 070C                   | 075-58268-001 |     |
| 19   | Rail, Crossmember | 040C, 045C             | 075-58265-002 | 1   |
|      |                   | 050C, 060C, 070C       | 075-58265-001 |     |
| 20   | Plate, Lifting    | ALL                    | 075-62426-005 | 2   |
| 21   | Plate, Lifting    | ALL                    | 075-62426-006 | 2   |

See Figure 25 on page 49.



Reference Table 32 on page 52.

**FIGURE 26 - FRAME RAIL COMPONENTS**

**TABLE 32 - FRAME RAIL COMPONENTS**

| ITEM | DESCRIPTION         | MODELS     | PART NUMBER   | QTY |
|------|---------------------|------------|---------------|-----|
| 1    | Panel, Enclosure    | ALL        | 375-61073-000 | 1   |
| 2    | Panel, Right        | 015C, 020C | 075-61078-004 | 1   |
|      |                     | 025C, 030C | 075-61078-001 |     |
| 3    | Panel, Left         | 015C, 020C | 075-61078-003 | 1   |
|      |                     | 025C, 030C | 075-61078-002 |     |
| 4    | Rail, Module        | 025C, 030C | 075-61077-005 | 2   |
| 5    | Rail, Module        | 015C, 020C | 075-61077-007 | 1   |
|      |                     | 025C, 030C | 075-61077-003 |     |
| 6    | Rail, Module        | 015C, 020C | 075-61077-008 | 1   |
|      |                     | 025C, 030C | 075-61077-004 |     |
| 7    | Rail, Module        | 015C, 020C | 075-61077-010 | 1   |
|      |                     | 025C, 030C | 075-61077-001 |     |
| 8    | Rail, Module        | 025C, 030C | 075-61077-006 | 2   |
| 9    | Rail, Module        | 015C, 020C | 075-61077-002 | 1   |
|      |                     | 025C, 030C | 075-61077-011 |     |
| 10   | Panel, Top          | ALL        | 075-61079-001 | 1   |
| 11   | Panel, Side         | 015C, 020C | 075-61079-009 | 2   |
|      |                     | 025C, 030C | 075-61079-002 |     |
| 12   | Panel, Front Access | 015C, 020C | 075-84190-010 | 1   |
|      |                     | 025C, 030C | 075-84190-004 |     |
| 14   | Panel, Back         | 015C, 020C | 075-61079-039 | 1   |
|      |                     | 025C, 030C | 075-61079-036 |     |
| 17   | Panel, Back Access  | ALL        | 075-61079-038 | 1   |
| 18   | Panel, Back Access  | 015C, 020C | 075-61079-040 | 1   |
|      |                     | 025C, 030C | N/A           |     |
| 19   | Panel, Back Access  | 015C, 020C | 075-61079-041 | 1   |
|      |                     | 025C, 030C | 075-61079-037 |     |
| 25   | Cap, Corner         | ALL        | 073-19409-000 | 4   |
| 33   | Panel, Divider      | 015C, 020C | 075-84190-004 | 1   |
|      |                     | 025C       | 075-83853-001 |     |
|      |                     | 030C       | 075-83853-013 |     |
| 34   | Panel, Divider      | 015C, 020C | 075-83853-010 | 1   |
|      |                     | 025C, 030C | 075-83853-008 |     |
| 39   | Rail, Module        | ALL        | 073-61080-001 | 1   |
| 43   | Panel, Top          | 015C, 020C | 075-61078-006 | 1   |
|      |                     | 025C, 030C | N/A           |     |
| 44   | Panel, Divider      | 015C, 020C | 075-84190-000 | 1   |
|      |                     | 025C       | 075-83853-002 |     |
|      |                     | 030C       | 075-83853-012 |     |

See Figure 26 on page 51.

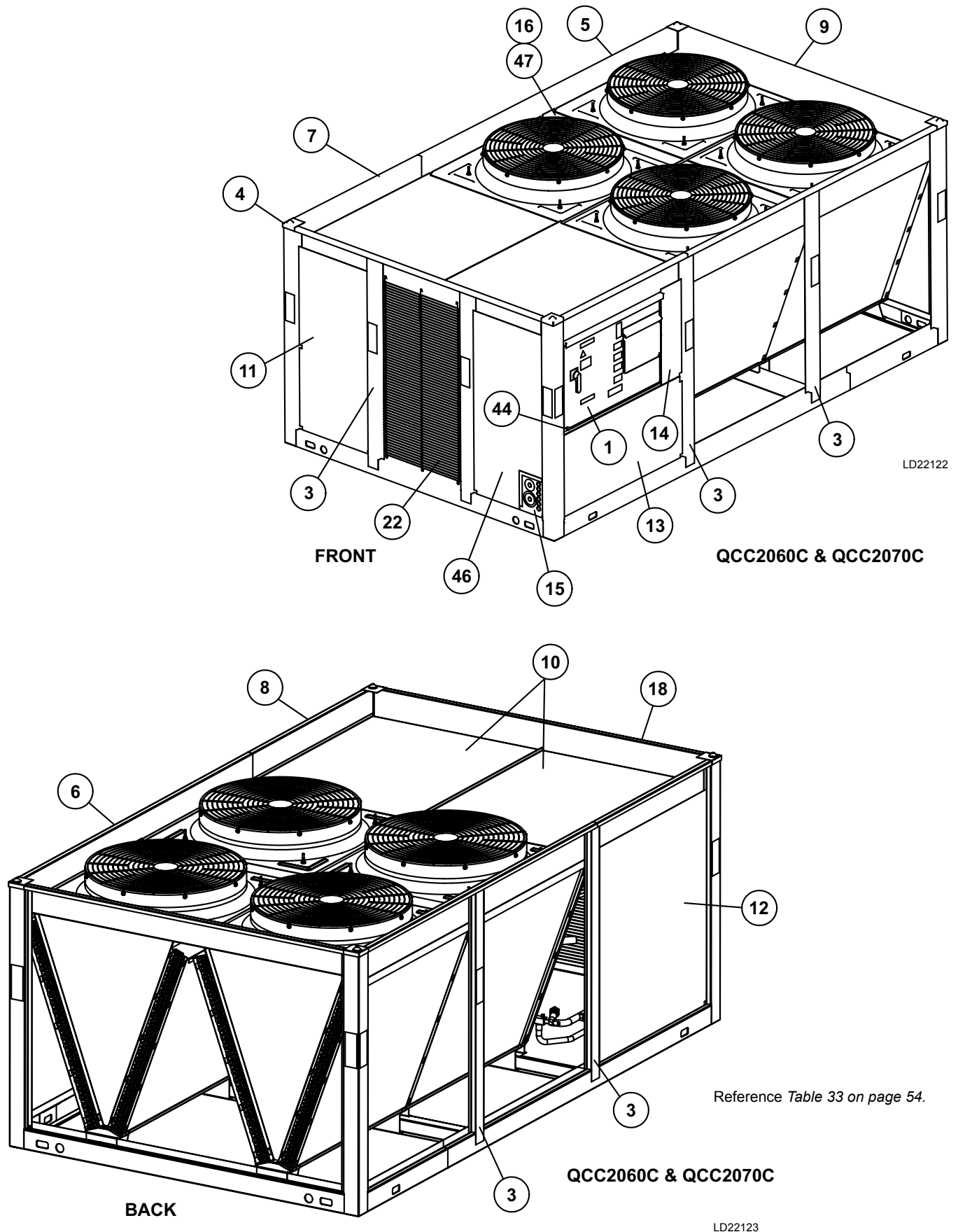


FIGURE 27 - FRAME RAIL COMPONENTS

**TABLE 33 - FRAME RAIL COMPONENTS**

| ITEM | DESCRIPTION         | MODELS QCC2            | PART NUMBER   | QUANTITY |
|------|---------------------|------------------------|---------------|----------|
| 1    | Panel, Enclosure    | ALL                    | 375-55956-000 | 1        |
| 3    | Rail, Module        | 040C, 045C             | 075-55889-004 | 6        |
|      |                     | 050C, 060C, 070C       | 075-55889-001 |          |
| 4    | Cap, Corner         | ALL                    | 073-19409-000 | 4        |
| 5    | Rail, Module        | 040C, 045C             | 075-58261-003 | 1        |
|      |                     | 050C, 060C             | 075-58261-002 |          |
|      |                     | 070C                   | 075-58261-001 |          |
| 6    | Rail, Module        | 040C, 045C             | 075-58258-003 | 1        |
|      |                     | 050C, 060C             | 075-58258-002 |          |
|      |                     | 070C                   | 075-58258-001 |          |
| 7    | Rail, Module        | 040C, 045C             | 075-58260-002 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58260-001 |          |
| 8    | Rail, Module        | 040C, 045C             | 075-58257-002 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58257-001 |          |
| 9    | Rail, Module        | 040C, 045C             | 075-58262-005 | 1        |
|      |                     | 050C, 060C             | 075-58262-003 |          |
|      |                     | 070C                   | 075-58262-001 |          |
| 10   | Panel, Top          | ALL                    | 075-58280-001 | 1        |
| 11   | Panel, Front        | 040C, 045C             | 075-58273-007 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58273-001 |          |
| 12   | Panel, Left         | 040C, 045C             | 075-58273-008 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58273-002 |          |
| 13   | Panel, Bottom Right | 040C, 045C             | 075-58273-009 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58273-003 |          |
| 14   | Panel, Top Right    | ALL                    | 075-58273-004 | 1        |
| 15   | Panel, Bottom Right | ALL                    | 075-58273-005 | 1        |
| 16   | Panel, Top          | 040C, 045C, 050C, 060C | N/A           | 1        |
|      |                     | 070C                   | 075-58278-001 |          |
| 17   | Rail, Module        | ALL                    | 075-55889-002 | 1        |
| 18   | Rail, Module        | 040C, 045C             | 075-58262-004 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58262-002 |          |
| 22   | Guard, Coil         | 040C, 045C, 050C, 060C | 026-46034-004 | 1        |
|      |                     | 070C                   | 026-41826-002 |          |
| 44   | Rail, Module        | ALL                    | 075-55938-002 | 1        |
| 46   | Panel, Front        | 040C, 045C             | 075-58273-010 | 1        |
|      |                     | 050C, 060C, 070C       | 075-58273-006 |          |
| 47   | Panel, Top          | 040C, 045C, 050C, 060C | N/A           | 1        |
|      |                     | 070C                   | 075-58278-002 |          |

See Figure 27 on page 53

## SECTION 11 - SPARE PARTS

**TABLE 34 - RECOMMENDED SPARE PARTS - QCC2 STYLE 'E' CHILLERS**

| Quantech Model QCC2 Style E Air Cooled Liquid Chillers<br>Suggested Spare Parts List for Critical Duty Applications |                                |                                           |              |               |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|--------------|---------------|
| PAGE REF. & ITEM NUMBER                                                                                             | DESCRIPTION                    | MODEL NUMBER QCC2                         | VOLTAGE CODE | PART NUMBER   |
| Page 7, Item 1                                                                                                      | Fan Motor (Standard)           | 015C & 020C                               | -17 & -28    | 024-35427-002 |
|                                                                                                                     |                                |                                           | -40          | 024-35427-004 |
|                                                                                                                     |                                |                                           | -46 & -50    | 024-35427-001 |
|                                                                                                                     |                                |                                           | -58          | 024-35427-003 |
| Page 8, Item 1                                                                                                      | Fan Motor (Standard)           | 025C, 030C, 040C, 045C, 050C, 060C & 070C | -17          | 024-27322-103 |
|                                                                                                                     |                                |                                           | -28          | 024-27322-106 |
|                                                                                                                     |                                |                                           | -40          | 024-27322-104 |
|                                                                                                                     |                                |                                           | -46 & -50    | 024-27322-107 |
|                                                                                                                     |                                |                                           | -58          | 024-27322-102 |
| Page 8, Item 1                                                                                                      | Fan Motor (Ultra Low Noise)    | 025C, 030C, 040C, 045C, 050C, 060C & 070C | -17 & -28    | 024-34980-002 |
|                                                                                                                     |                                |                                           | -40          | 024-34980-005 |
|                                                                                                                     |                                |                                           | -46 & -50    | 024-34980-001 |
|                                                                                                                     |                                |                                           | -58          | 024-34980-004 |
| Pages 7 and 8, Item 2                                                                                               | Fan Blade (Standard)           | 015C & 020C                               | All          | 026-43008-000 |
|                                                                                                                     |                                | 040C, 045C & 050C                         |              | 026-41592-000 |
|                                                                                                                     |                                | 025C, 030C, 060C & 070C                   |              | 026-41594-000 |
| Page 8, Item 2                                                                                                      | Fan Blade (Ultra Low Noise)    | 040C, 045C & 050                          | All          | 026-41593-000 |
|                                                                                                                     |                                | 025C, 030C, 060C & 070C                   |              | 026-41942-000 |
| Pages 16, 17 and 18, Item 4                                                                                         | Valve, Liquid Line             | See Table 6                               | All          | 022-11306-000 |
|                                                                                                                     |                                |                                           |              | 022-10022-000 |
| Page 18, Item OIL                                                                                                   | Oil, Compressor - (6) 1 Gallon | All                                       | All          | 011-00948-000 |
|                                                                                                                     | Oil, Compressor - 5 Gallon     |                                           |              | 011-00949-000 |
| Page 35, Item 1                                                                                                     | Sensor, Outside Air            | 015C - 030C                               | All          | 025-40273-008 |
|                                                                                                                     |                                | 040C - 050C                               |              | 025-40273-006 |
|                                                                                                                     |                                | 060C - 070C                               | All          | 025-40273-003 |
| Page 35, Item 5                                                                                                     | Transducer, Suction Pressure   | All                                       | All          | 025-29583-000 |
| Page 35, Item 6                                                                                                     | Transducer, Discharge Pressure | All                                       | All          | 025-41756-002 |
|                                                                                                                     |                                |                                           |              | 025-41756-003 |
| Page 35, Item 7                                                                                                     | Switch, High Pressure Cut-Out  | All                                       | All          | 025-41535-000 |

All parts should be purchased from your local  
Quantech Sales and Service Center.

